SUBJECT INDEX FOR VOLUME 49 (1996)

References to AMR (at the end of each entry) are coded in the form nLm, where n is an integer which gives the AMR issue number (1 for Jan, 2 for Feb, etc), L is a letter (R, N, A, or T), and m is the sequence number of the item within the issue. If L = R or N, the item is in the BOOK REVIEWS section with R indicating a signed Review and N a staff-prepared Note. If L = A or T, the item is in the REVIEW OF THE JOURNAL LITERATURE section with A indicating that an abstract is given and T that only the title of the article is given. Items are listed under each subject heading in the order in which they were originally published in AMR.

I. FOUNDATIONS & BASIC METHODS

100. CONTINUUM MECHANICS

100A. General theory

Cold compaction of powders, J Mech Phys Solids 43(9) 1409-1431 (Sep 1995), 1A1
Compressible materials capable of sustaining axisymmetric shear deformations - Part I: Anti-plane shear of isotropic hyperelastic materials, J Elast 39(1) 75-95 (Apr 1995), 1A2
Elasto-plastic analysis with constitutive relation based on fuzzy reasoning, Proc JSCE 519(I-32) 21-36 (Jul 1995), 1A3
Nature of configurational forces, Arch Rational Mech Anal 131(1) 67-100 (1995), 1A4
Prediction of deformation behavior of glassy polymers based on molecular chain network model, Int J Solids Struct 32(23) 3423-3434 (Dec 1995), 1A5
Representation theorem for linear, isotropic tensor functions, J Elast 39(2) 181-185 (May 1995), 1T452
Cosserat plasticity and plastic spin, Appl Mech Rev 48(11) 753-762 (Nov 1995), 1A488
Appropriate corotational rate, exact formula for the plastic spin and constitutive model for finite elasto-plasticity, Int J Solids Struct 32(24) 3643-3667 (Dec 1995), 2A1
Colonnetti's minimum principle extension to generally nonlinear materials, Int J Solids Struct 33(1) 121-144 (Jan 1996), 2A2
General theorems and fundamental solutions in the dynamical theory of mixtures, J Elast 39(3) 229-246 (Jun 1995), 2A3
Selected and extended papers from the 4th Pan-American Congress of Applied Mechanics, January, 1995, Buenos Aires, Argentina, Appl Mech Rev 48(11-PART 2) S3-S229 (Nov 1995), 2A4
How to describe large elastic deformation, Mech Solids 30(1) 73-76 (1995), 3A1
Thermodynamic restrictions on constitutive equations for second-deformation-gradient inelastic behavior, J Mech Phys Solids 43(11) 1751-1772 (Nov 1995), 3A2
Micromechanical description of the deformation due to martensite transformations in shape-memory alloys, Mech Solids 30(1) 186-193 (1995), 3A10
Smoothness of the scalar coefficients in the representation $H(A) = \alpha I + \beta A + \gamma A^2$ for isotropic tensor functions of class C^2, J Elast 40(2) 165-182 (Aug 1995), 4T1
G-moving frames and their applications in dynamics, Int J Eng Sci 33(15) 2261-2275 (Dec 1995), 4A95
Closed-form primitives for generating locally volume preserving deformations, J Mech Des 117(3) 347-354 (Sep 1995), 5A1
Riemannian description of chaotic instability in Hamiltonian dynamics, Chaos 5(4) 646-652 (Dec 1995), 5A2
Masonry as structured continuum, Meccanica 30(6) 673-683 (Dec 1995), 5A465
Progressive damage in discrete models and consequences on continuum modeling, J Mech Phys Solids 44(1) 99-136 (Jan 1996), 6A634
Kinematics of continua and the concept of connection on classical space-time, Int J Eng Sci 34(3) 289-298 (Feb 1996), 7A1
Micromechanical model of texture-induced orthotropy in planar crystalline polymers, J Mech Phys Solids 44(2) 157-178 (Feb 1996), 7A2
Large displacement Lagrangian mechanics - Part I: Theory, Struct Eng and Mech 4(1) 73-89 (Jan 1996), 8A1
Large displacement Lagrangian mechanics - Part II: Equilibrium principles, Struct Eng and Mech 4(1) 91-107 (Jan 1996), 8A2
Construction of equations of mechanics of continuous medium on the basis of Lennerd-Johns potential, Prikl Mekh (Appl Mech) 31(7) 25-37 (1995), 9A1
Decomposition theorem of motion, Int J Eng Sci 34(4) 417-423 (Mar 1996), 9A2
Symmetry and coaxiality of pertinent stretch and stress tensors during non-proportional loading at finite plastic strain, Acta Mech 115(1-4) 1-14 (1996), 9A505
Fuzzy dynamical systems, fuzzy random fields, Reports Math Phys 36(2-3) 263-274 (Dec 1995), 10A1
Main Polish historical and modern sources on applied mechanics, Appl Mech Rev 49(8) 401-432 (Aug 1996), 10A2
Stress tensors associated with deformation tensors via duality, Arch Mech 48(2) 347-384 (1996), 10A3
Nonlinear Effects in Fluids and Solids - Math Concepts and Methods in Science and Engineering Series, Vol 45 (Plenum, New York, 1996) 11N7
Coordinate-independent representation of spins in continuum mechanics, J Elast 42(2) 133-144 (Feb 1996), 11A1

100B. Constitutive theory

Flutter instability in elastoplastic constitutive models, Int J Solids Struct 32(21) 3167-3189 (Nov 1995), 1A6
General irreducible representations for constitutive equations of elastic crystals and transversely isotropic elastic solids, J Elast 39(1) 47-73 (Apr 1995), 1A7
Simple constitutive relationship for isotropic solids with stress-state type dependent properties, Int J Solids Struct 32(21) 3075-3085 (Nov 1995), 1A8
Macroscopic constitutive law for porous solids with pressure-sensitive matrices and its implications to plastic flow localization, Int J Solids Struct 32(24) 3669-3691 (Dec 1995), 2A5
New model for an aging thermoviscoelastic material, Mech Res Commun 22(5) 441-446 (Oct 1995), 2T6
One dimensional nonlinear viscoelastic constitutive equation of bituminous mixture (Japanese), Proc JSCE 590(V-28) 25-33 (Aug 1995), 2A7
Localization analysis via a geometrical method, Int J Solids Struct 33(1) 99-119 (Jan 1996), 2A355
Constitutive equations for isotropic multimodulus media: Quasilinear relations, Mech Solids 30(1) 67-72 (1995), 3A3
Constitutive laws of softened concrete in biaxial tension-compression, ACI Struct J 92(5) 562-573 (Oct 1995), 3A4
Nonlinear constitutive relations for magnetostrictive materials with applications to 1D problems, J Intelligent Mat Syst Struct 6(5) 673-683 (Sep 1995), 3A5
Problem of constitutive equations and contemporary thermomechanics, Mech Solids 30(1) 50-66 (1995), 3A6
Alternative model for anisotropic elasticity based on fabric tensors, Mech Mat 21(4) 243-250 (Nov 1995), 4A2
Scale dependent constitutive relations: Information from wavelet analysis and application to localization problems, Eur J Mech A 14(6) 873-892 (1995), 4A3
Solution of the elastic and visco-plastic constitutive equations: A finite volume approach, Appl Math Model 19(12) 746-760 (Dec 1995), 4A455
Tensorial constitutive equations for describing the anisotropic creep behavior of isotropic material after plastic prestrain (German), Z Angew Math Mech 75(11) 831-845 (1995), 5A457
Geometry and continuum thermodynamics of movement of structural defects, Mech Mat 22(1) 23-41 (Jan 1996), 7A3
Number of grains required to homogenize elastic properties of polycrystalline ice, Mech Mat 22(1) 51-64 (Jan 1996), 7A4
Numerical simulation of shear band formation with a hypoplastic constitutive model, Comput Geotech 18(1) 71-84 (1996), 7A5
Semi-quadratic variational problems for multiphase equilibria, Quart Appl Math 54(1) 73-84 (Mar 1996), 7T6
Elastic-plastic-damage constitutive models with coupling internal variables, Mech Res Commun 23(1) 19-28 (Feb 1996), 7T530
Formulation of constitutive equations for fiber-reinforced composites with different behavior in tension and compression, Mech Res Commun 23(1) 55-60 (Feb 1996), 7T561
Constitutive relations for the energy transfer in nonsaturated continuous mixtures, Mech Res Commun 23(2) 117-122 (Apr 1996), 8A3
Continua described by a microstructural field, Z Angew Math Phys 47(1) 168-175 (Jan 1996), 8A4
Disturbed state constitutive modeling based on stress-strain and nondestructive behavior, Int J Solids Struct 33(11) 1619-1650 (May 1996), 8A5
Micromechanics-based nonlocal constitutive equation and estimates of representative volume element size for elastic composites, J Mech Phys Solids 44(4) 497-524 (Apr 1996), 8A6
Phase-field theory for solidification based on a general anisotropic sharp-interface theory with interfacial energy and entropy, Physica D 91(1-2) 143-181 (Mar 1996), 8A7
Geometry of uniformity in second-grade elasticity, Acta Mech 114(1-4) 217-224 (1996), 8A397
Viscoelastic material response with a fractional-derivative constitutive model, AIAA J 34(3) 596-600 (Mar 1996), 8A402
Constitutive and damage evolution equations for elastic-plastic-damaging materials based on thermodynamics theory (Japanese), J Soc Mat Sci Japan 45(2) 176-182 (Feb 1996), 9A3
Geometrical material structure of anelasticity, Acta Mech 115(1-4) 119-131 (1996), 9A4
Kinematic and static hypotheses for constitutive modeling of granulates considering particle rotation, Acta Mech 115(1-4) 213-229 (1996), 9A5
Plausibility of structural constitutive equations for swelling tissues: Implications of the C-N and S-E conditions, J Biomech Eng 118(1) 10-16 (Feb 1996), 9A6
Simplifications and comparisons of shape memory alloy constitutive models, J Intelligent Mat Syst Struct 7(1) 108-114 (Jan 1996), 9A7
Formulation of viscoplasticity laws using overstresses, Acta Mech 115(1-4) 179-202 (1996), 9A503
Influence of material objectivity on electroelastic dissipation in polarized ferroelectric ceramics, Math Mech Solids 1(1) 45-55 (Mar 1996), 9A646
Alternative approach to the representation of orthotropic tensor functions in the 2D case, Arch Mech 48(2) 219-230 (1996), 10A4
Properly invariant theory of infinitesimal deformations of an elastic Cosserat point, Z Angew Math Phys 47(2) 179-193 (Mar 1996), 10A513
Void growth and stress-strain relations of a class of viscoelastic porous materials, Mech Mat 22(3) 179-188 (Mar 1996), 10A532
Constitutive Laws: Theory, Experiments, and Numerical Implementation - Proc of Symp on Constitutive Laws, Mauna Lani HI, July-Aug 1995 (CIMNE, Barcelona, Sp, 1995) 11N4
Compressive failure of microcracked porous brittle solids, Mech Mat 22(4) 265-277 (Apr 1996), 11A2
Failure criterion, flow rule and dissipation function derived from hypoelasticity, Mech Cohesive-Frictional Mat 1(2) 145-163 (Apr 1996), 11A445
Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, Mech Composite Mat Struct 3(2) 153-179 (Jun 1996), 11A468
Stress-strain relationship of high-strength concrete in compression, J Mat in Civil Eng 8(2) 70-76 (May 1996), 11A473
Constitutive law for large deformations of polymers at high temperatures, J Mech Phys Solids 44(7) 1033-1049 (Jul 1996), 12A1
Quasi-linear constitutive relation for arterial wall materials, J Biomech 29(8) 1011-1014 (Aug 1996), 12A2

100C. Thermodynamic considerations

Asymptotic error expansion of a collocation-type method for Hammerstein equations, Appl Math Comput 72(1) 1-19 (Sep 1995), 1T9
Problem of constitutive equations and contemporary thermomechanics, Mech Solids 30(1) 50-66 (1995), 3A6
Gradient generalization to internal state variable approach, Arch Mech 47(3) 523-536 (1995), 3A7
Spatial decay estimates in certain time-dependent problems of continuum mechanics, Arch Mech 47(4) 755-771 (1995), 3A8
Micromechanical description of the deformation due to martensite transformations in shape-memory alloys, Mech Solids 30(1) 186-193 (1995), 3A10
Study of thermodynamic restrictions, constraint conditions, and material symmetry in fully strain-space theories of plasticity, Int J Plasticity 11(6) 679-724 (1995), 3A462
Hamiltonian chaos to Maxwell's Demon, Chaos 5(4) 653-661 (Dec 1995), 5A3
Group properties and similarity solutions for the heat equation with semi-empirical temperature, J Theor Appl Mech 34(1) 77-88 (1996), 6A1
Hyperbolic heat conduction with variable relaxation time, J Theor Appl Mech 34(1) 57-65 (1996), 6A2
Parabolic regularization of hyperbolic heat conductivity in rigid body, J Theor Appl Mech 34(1) 67-76 (1996), 6A3
Geometry and continuum thermodynamics of movement of structural defects, Mech Mat 22(1) 23-41 (Jan 1996), 7A3
Dissipative terms of thermal nature in the theory of an ideal monoatomic superfluid, Z Angew Math Phys 47(1) 144-161 (Jan 1996), 8A8
Thermodynamics of second sound in materials with memory, Mec Appl 48(2-3) 317-331 (Jun 1995), 11A3
Bounds on the off-diagonal coefficients of the homogenized constitutive tensor of a composite material, Mech Res Commun 23(3) 239-245 (Jun 1996), 11T465

100D. Modeling of physical phenomena

Density jump variation in the initial stage of the gravity flow of granular materials, Arch Mech 47(2) 405-413 (1995), 1A10
Existence theorems for elliptic partial differential equations of reaction-diffusion type, Arch Mech 47(1) 117-124 (1995), 1A11
Unconventional approach to linear elasticity, Arch Mech 47(2) 149-171 (1995), 1A453
Dissipation of configurational forces in defective elastic solids, Arch Mech 47(1) 81-99 (1995), 1A459
Asymptotic equations of geometrical optics for two models of hyperbolic heat waves, Arch Mech 47(4) 745-753 (1995), 3A9
Micromechanical description of the deformation due to martensite transformations in shape-memory alloys, Mech Solids 30(1) 186-193 (1995), 3A10
Remarks on domain-transition problems, Arch Mech 47(3) 499-512 (1995), 3A11
Microstructure and phase transitions in solids, Meccanica 30(5) 433-663 (Oct 1995), 4T513
Modelling Mathematical Methods and Scientific Computation - Mathematical Modelling Series (CRC Press, Boca Raton FL, 1995) 5R1
Dynamics of dipole of finite size in field of two dipoles, J Tech Phys 36(3) 253-267 (1995), 6A4
Uncertainty of hydraulic parameters, J Hydraul Eng 122(2) 112-114 (Feb 1996), 6T894
Macroscopic tensor of elastic moduli of porous medium of regular structure of nonconpressible metal, Prikl Mekh (Appl Mech) 31(1) 37-43 (1995), 7A7
Dissipative terms of thermal nature in the theory of an ideal monoatomic superfluid, Z Angew Math Phys 47(1) 144-161 (Jan 1996), 8A8
Global analysis of structural evolution in a row of grains, J Mech Phys Solids 44(4) 559-581 (Apr 1996), 8A9
Ductile crack growth - III: Transition to cleavage fracture incorporating statistics, J Mech Phys Solids 44(4) 603-639 (Apr 1996), 8A571
Barotropic instabilities of the type of self-organization in zonal westerly flow, J Tech Phys 36(4) 501-516 (1995), 9A8
Description of polyethylene crystal as a continuum with internal dof, Int J Solids Struct 33(12) 1781-1798 (May 1996), 9A9
Energy and equations of motion in a tentative theory of gravity with a privileged reference frame, Arch Mech 48(1) 25-52 (1996), 9A10
Growth models with internal competition, Acta Phys Polonica B B27(3) 737-746 (Mar 1996), 9A11
Kinetics of microdomain formation in 2D assemblies, Acta Phys Polonica B B27(3) 783-793 (Mar 1996), 9A12
Remarks on Osborne Reynolds' "The submechanics of the universe", Prace Inst Maszyn Przeplywowych 0(99) 127-150 (1995), 9A13
Simple mathematical tool for statistical description of dynamical systems under random actions - I, Acta Phys Polonica B B27(3) 693-735 (Mar 1996), 9A14
Structural basis of interface engineering, Acta Phys Polonica A 89(2) 235-249 (Feb 1996), 9A15
Transport in ratchet-type systems, Acta Phys Polonica B B27(3) 663-675 (Mar 1996), 9A16
Noise-induced transitions in a bistable process driven by non-Markovian noise: Stationary states, Acta

© Copyright - 1996 American Society of Mechanical Engineers

Phys Polonica B 827(3) 767-782 (Mar 1996), 9A118
Nonequilibrium velocity distribution of reactive foreign gas: Simulation and phenomenology, Acta Phys Polonica B 827(3) 795-810 (Mar 1996), 9A1035
Elements of an approach to the assessment of random uncertainty in transient measurements, J Fluids Eng 118(1) 90-95 (Mar 1996), 9A1252
Mechanics of Porous Continua (Wiley, New York, 1995) 10R39
Overview of Schrodinger-Poisson problems, Reports Math Phys 36(2-3) 331-345 (Dec 1995), 10A5
Redesigning mechanical systems for low wear using system dynamics modeling, J Trib 118(2) 415-422 (Apr 1996), 10T972
Surface-Interface and Stress Effects in Electronic Material Nanostructures, Volume 405 (Mat Res Soc, Pittsburgh PA) 11N10
Principle of compatibility and criteria of ideality in study of a constrained mechanical system, Strojnicky Casopis 47(1) 2-11 (1996), 11A4
Effective elastic moduli of misoriented short-fiber composites, Int J Solids Struct 33(17) 2519-2539 (Jul 1996), 11A466
Plastic damage constitutive model for composite materials, Int J Solids Struct 33(17) 2501-2518 (Jul 1996), 11A660
Complete characterization of the possible bulk and shear moduli of planar polycrystals, J Mech Phys Solids 44(7) 1179-1218 (Jul 1996), 12A3
General macroscopic description of the thermomechanical behavior of shape memory alloys, J Mech Phys Solids 44(6) 953-980 (Jun 1996), 12A4

102. FINITE ELEMENT METHODS

Error indicators for mixed FEs in 2D linear elasticity, Comput Methods Appl Mech Eng 127(1-4) 345-356 (Nov 1995), 4A440
Effects of material nonlinearity on the 3D stress state of pin-loaded composite laminates, J Composite Mat 30(7) 839-861 (1996), 11A484

102A. General theory

Moving Finite Elements (Oxford UP, New York, 1994) 1R1
Finite Element Method in Electromagnetics (Wiley, New York, 1993) 1N3
Explicit geometrically-nonlinear discretization of the 3D tetrahedral element, Proc JSCE 519(I-32) 11-19 (Jul 1995), 1A12
Stiffness equations of FEs in G-invariant subspaces (Russian), Glas Tech Series 31 21-64 (1995), 3A12
Accuracy assessment to applying 20-node solid elements to pressurized composite shells, Finite Elements Anal Des 20(4) 219-231 (Sep 1995), 4A4
Derivation matrices for rectangular plane-stress FEs, Int J Struct 15(1) 60-73 (Jun 1995), 4A5
Fuzzy FE approach for the anlaysis of imprecisely defined systems, AIAA J 33(12) 2364-2370 (Dec 1995), 4A6
Interpolation theorem for narrow quadrilateral isoparametric FEs, Numer Math 72(1) 123-141 (Nov 1995), 4T7
Convergence of a FEM for non-parametric mean curvature flow, Numer Math 72(2) 197-222 (Dec 1995), 5A4
Mixed methods for nonlinear second-order elliptic problems in three variables, Numer Methods PDE 12(1) 41-57 (Jan 1996), 5A5
Parametric unification of matrix structural analysis: Classical formulation and d-connected mixed elements, Finite Elements Anal Des 21(1-2) 45-74 (Oct 1995), 5A6
State-of-the-art development of hybrid-mixed FEM, Finite Elements Anal Des 21(1-2) 5-20 (Oct 1995), 5A7
Optimization approaches of hybrid stress elements, Finite Elements Anal Des 21(1-2) 111-128 (Oct 1995), 5A35
Convergence of multigrid methods for solving FE equations in the presence of singularities, J Comput Math 13(4) 315-324 (Oct 1995), 6A5
Convergence rates and classification for 1D FE meshes, IMA J Numer Anal 16(1) 65-74 (1996), 6A6
Diagonal formulation of mass matrix in the FEM, Russian Aeronaut 38(1) 67-69 (1995), 6A7
Least-squares mixed FEM for non-selfadjoint elliptic problems - Part I: Error estimates, Numer Math 72(4) 501-522 (Feb 1996), 7A8
Methodology for quantitative error-assessment of FE models, Finite Elements Anal Des 21(3) 213-223 (Jan 1996), 7A9
Mixed hp FEMs for problems in elasticity and Stokes flow, Numer Math 72(3) 367-389 (Jan 1996), 7T10
Variational approach to optimal meshes, Numer Math 72(4) 523-540 (Feb 1996), 7A11
Adaptive control of spatial-temporal discretization error in FE analysis of dynamic problems, Struct Eng and Mech 3(4) 391-410 (Jul 1995), 8A10
Modified Zienkiewicz-Zhu error estimator, Struct Eng and Mech 4(1) 1-8 (Jan 1996), 8A11
Anisotropy of random fields in stochastic FEM, Eng Trans 43(3) 359-371 (1995), 9A17
Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, Composite Struct 34(2) 129-143 (1996), 9A18
Least-squares FE for second order boundary value problem with optimal rates of convergence, Appl Math Comput 76(2-3) 267-284 (May 1996), 9T19
Non-optimal behavior of FEMs for first order hyperbolic problems, Appl Math Comp Sci 5(4) 579-596 (1995), 9A20
Nonlinear quasi-conforming FEM and the hybrid-mixed FEM - II: On the Hu-Washizu variational principle (Chinese), J Comput Struct Mech Appl 12(1) 47-52 (Feb 1995), 9T21
Overview and applications of the reproducing Kernel Particle methods, Arch Comput Methods Eng 3(1) 3-80 (1996), 9A22
Semi-analytical singular elements in plane and spatial problems of elasticity, Mech Solids 30(6) 43-54 (1995), 10T6
Two-dimensional mesh generation scheme for adaptive remeshing process in FEM, JSME Int J Ser A 39(2) 204-215 (Apr 1996), 10A7
Finite Element Procedures (Prentice-Hall, Englewood Cliffs NJ, 1996) 11R1
Advances in Finite Element Technology - Theory and Engineering Applications of Computational Methods Series, Vol 2 (CIMNE, Barcelona, Sp, 1995) 11N3
Application of Koiloff and Frazier's hourglass control method in nonlinear analysis, Proc JSCE 537(I-35) 1-10 (Apr 1996), 11A5
Adjustable refined strain field in degenerated shell elements, Finite Elements Anal Des 22(1) 85-91 (May 1996), 11A31
Comparison of FE codes for the solution of biphasic poroelastic problems, J Eng Med 210(H2) 131-136 (1996), 12A5

102C. Structural applications

Fluid Structure Interaction: Applied Numerical Methods (Wiley, New York, 1995) 1R5
Application of rigid FEM to dynamic analysis of spatial systems, J Guidance Control Dyn 18(4) 891-898 (Aug 1995), 1T13
FE stress and strain analysis in composites with embedded optical fiber sensors, Smart Mat Struct 4(2) 113-117 (Jun 1995), 1A14
FEM analysis of torsional strength for twist drill, Int J Japan Soc Precision Eng 29(1) 44-45 (Mar 1995), 1T15
Nonlinear analysis using a modal-based reduction technique, Composite Struct 31(4) 257-263 (1995), 1A153
Adaptive analysis of stiffened structures using stiffened plate bending elements, Int J Pressure Vessels Piping 65(2) 117-125 (1996), 1A617
Equilibrium constrained assumed natural coordinate strain plate elements, Int J Numer Methods Eng 38(17) 2951-2977 (Sep 1995), 1A629
Nonlinear displacement-based FE analyses of composite shells: A new total Lagrangian formulation, Int J Solids Struct 32(20) 3047-3073 (Oct 1995), 1A631
Nonlinear FE analysis of no-tension masonry structures, Meccanica 30(3) 233-249 (Jun 1995), 1A904
Study of seismic analysis method in the cross section of underground structures by means of static FEM (Japanese), Proc JSCE 519(I-32) 139-148 (Jul 1995), 1A1391
Current Topics in Computational Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N2
Solution Techniques for Large-Scale CFD Problems (Wiley, New York, 1995) 2N4
Stability of Structures by FEM (Elsevier, New York, 1994) 2R22
Application of FE techniques in the displacement compatibility method, Eng Fracture Mech 52(4) 625-638 (Nov 1995), 2A8
Finite element analysis on shear resisting mechanism of concrete beams with shear reinforcement, Proc JSCE 590(V-28) 273-286 (Aug 1995), 2A9
Stress analysis of drillstring threaded connection using the FEM, Eng Failure Anal 2(1) 1-30 (Mar 1995), 2A10
Finite element modeling of shell of revolution with ring beams at joints, Asian J Struct Eng 1(1) 71-82 (1995), 2A111
Physical and geometrical nonlinearities in contact problems of elastic turbine blade attachments, Proc Inst Mech Eng C 209(C4) 273-286 (1995), 2A375
Accurate representation of local effects due to concentrated and discontinous loads in hybrid-Trefftz plate bending elements, Comput Struct 57(5) 863-870 (Dec 1995), 2A479
Dynamic analysis and drilling dof, Int J Numer Methods Eng 38(19) 3193-3210 (Oct 1995), 2A480
Higher-order, partial hybrid stress, FE formulation for laminated plate and shell analyses, Comput Struct 57(5) 817-827 (Dec 1995), 2A482
Shell elements as a coupling of plate and "drill" elements, Comput Struct 57(5) 893-902 (Dec 1995), 2A483
Residual stresses at a longitudinal stiffener-web frame intersection and their effects on crack growth, Marine Struct 8(6) 603-616 (1995), 2A572
Three-dimensional joint elements applied to concrete-faced dams, Int J Numer Anal Methods Geomech 19(9) 615-636 (Sep 1995), 2A780
Finite Element Modeling for Stress Analysis (Wiley, New York, 1995) 3R2
New model of isoparametric FE for shell calculations, Mech Solids 30(1) 132-137 (1995), 3A37
Finite-element prediction of modal response of damped layered composite panels, Composites Sci Tech 55(1) 13-23 (1995), 3A141
Finite element formulation of a sandwich beam with embedded electro-rheological fluids, J Intelligent Mat Syst Struct 6(5) 718-728 (Sep 1995), 3A527
Mixed formulation of nonlinear beam FE, Comput Struct 58(1) 71-83 (Jan 1996), 3A528
Computation of thin structures at large strains and large rotations using a simple C^0 isoparametric three-node shell element, Comput Struct 58(2) 249-261 (Jan 1996), 3A545
Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, JSME Int J Ser A 38(4) 458-464 (Oct 1995), 3A751
Design change to realize homologous deformation, JSME Int J Ser A 38(4) 453-457 (Oct 1995), 3A755
Composite action between steel lintels and masonry walls, Struct Eng Review 7(2) 75-82 (May 1995), 3A811
Two-phase FE comparative study of a side structure of a middle size tanker, Marine Struct 9(2) 151-179 (1995), 3A818
Accuracy assessment to applying 20-node solid elements to pressurized composite shells, Finite Elements Anal Des 20(4) 219-231 (Sep 1995), 4A4
Finite element modeling of frequency-dependent and temperature-dependent dynamic behavior of viscoelastic materials in simple shear, Int J Solids Struct 33(3) 419-432 (Jan 1996), 4A8
Nonlinear FE analysis of reinforced concrete two-pile caps, Int J Struct 15(1) 18-34 (Jun 1995), 4A9
Quadratic order elastic foundation FE, Comput Struct 58(3) 435-443 (Feb 1996), 4A10
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, Composite Struct 33(2) 109-119 (1995), 4A11
Transfer matrix method for FE models of a chain-like structure under harmonic excitations, J Sound Vib 187(1) 169-175 (Oct 1995), 4T12
Concurrent element level processing for nonlinear dynamic analysis on a massively parallel computer, Comput Syst Eng 6(3) 285-293 (Jun 1995), 4A27
Iterative and direct solvers for interface problems with Lagrange multipliers, Comput Syst Eng 6(3) 261-273 (Jun 1995), 4A34
Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, Finite Elements Anal Des 20(4) 253-271 (Sep 1995), 4A41
Recent advances in the P-version of the FEM for shells, Comput Syst Eng 6(3) 195-211 (Jun 1995), 4A44
Dynamic effect of laminated beam subjected to transverse impact (Chinese), J Vib Eng 8(3) 253-257 (Sep 1995), 4A151
Vibrations of Timoshenko beams by variable order FEs, J Sound Vib 187(5) 841-849 (Nov 1995), 4A162
Microbuckle initiation in fiber composites: A FE study, J Mech Phys Solids 43(12) 1887-1918 (Dec 1995), 4A478
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Choose-head bolts, Composite Struct 33(2) 95-108 (1995), 4A488
Combined experimental-numerical approach to characterization of steel-glue-concrete interface, Mat Struct 28(183) 518-525 (Nov 1995), 4A505
Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, Int J Solids Struct 33(3) 375-398 (Jan 1996), 4A509
Computer-aided multiscale modeling tools for composite materials and structures, Comput Syst Eng 6(3) 213-223 (Jun 1995), 4A531
Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, Composite Struct 33(1) 7-15 (1995), 4A574
Stability of laminated composite plates subjected to various types of in-plane loadings, Int J Mech Sci 38(2) 191-202 (Feb 1996), 4A575
Finite element analysis of configurational stability and finite growth of buckling driven delamination, J Mech Phys Solids 43(12) 1983-2021 (Dec 1995), 4A691
Effect of end notch on shear capacity of simply supported prestressed hollow core slabs: Numerical experiments, Struct Eng Review 7(4) 277-288 (Nov 1995), 4A807
Parametric unification of matrix structural analysis: Classical formulation and d-connected mixed elements, Finite Elements Anal Des 21(1-2) 45-74 (Oct 1995), 5A6
Arbitrary Lagrangian-Eulerian FE analysis of strain localization in transient problems, Int J Numer Methods Eng 38(24) 4171-4191 (Dec 1995), 5A8
Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, J Trib 117(4) 729-736 (Oct 1995), 5T9
Finite element formulation of a flexible slider crank mechanism using local coordinates, J Dyn Syst Meas Control 117(3) 329-335 (Sep 1995), 5A10
Free vibration and stability analysis of shells by the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 53-82 (1996), 5A11
Influence of joint detail on the flexural-torsional interaction of thin-walled structures, Thin-Walled Struct 24(2) 97-111 (1996), 5A12
Investigation of objectivity in the application of the FEM to RC structures - II, Comput Struct 58(6) 1183-1211 (Mar 1996), 5A13
Mass conservative least-squares FEM for the Stokes problem, Commun Numer Methods Eng 11(12) 965-970 (Dec 1995), 5A14
Numerical strategies in the application of the FEM to RC structures - I, Comput Struct 58(6) 1171-1182 (Mar 1996), 5A15
Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 19-51 (1996), 5A16
Effective four node degenerated shell element for geometrically nonlinear analysis, Thin-Walled Struct 24(3) 261-283 (1996), 5A32
Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, Finite Elements Anal Des 21(1-2) 75-110 (Oct 1995), 5A34
Optimization approaches of hybrid stress elements, Finite Elements Anal Des 21(1-2) 111-128 (Oct 1995), 5A35
Stability of thin-walled pultruded structural members by the FEM, Thin-Walled Struct 24(1) 1-18 (1996), 5A37
Dynamic behavior of an initially stressed pipeline, Mech Solids 30(2) 140-146 (1995), 5A225
Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, Mech Solids 30(2) 156-161 (1995), 5A228
Ultimate strength of girders with trapezoidally corrugated webs under patch loading, Thin-Walled Struct 24(2) 135-156 (1996), 5A501
Shell deformation states and the FEM: A benchmark study of cylindrical shells, Comput Methods Appl Mech Eng 128(1-2) 81-121 (Dec 1995), 5A520
Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, Thin-Walled Struct 24(3) 191-210 (1996), 5A533
Torsional buckling of outstands in longitudinally stiffened panels, Thin-Walled Struct 24(3) 211-229 (1996), 5A535
Dynamic elastic instability of long circular cylindrical shells under pure bending, Thin-Walled Struct 24(2) 123-133 (1996), 5A536
Spall damage to concrete walls from close-in cased and uncased explosions in air, ACI Struct J 92(6) 680-688 (Dec 1995), 5A613
Influence of web reinforcement on the cyclic response of structural walls, ACI Struct J 92(6) 745-756 (Dec 1995), 5T709
Numerical simulation of a full scale fire test on a loaded steel framework, J Construct Steel Res 35(3) 377-408 (1995), 5A720
Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), Proc JSCE 525(I-33) 191-200 (Oct 1995), 5A727
Analysis of the influence of main control parameters in the transient response calculation (Chinese), J Vib Eng 8(4) 363-368 (Dec 1995), 6A8
Developments in the analysis of interacting cracks, Eng Failure Anal 2(4) 307-320 (Dec 1995), 6A9
FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), J Vib Eng 8(4) 384-388 (Dec 1995), 6A10
Finite element code for fracture propagation analysis within elasto-plastic continuum, Eng Fracture Mech 53(2) 193-211 (Jan 1996), 6A11
Formulation of a bondline element for modeling glued joints in wood, J Theor Appl Mech 34(1) 101-128 (1996), 6A12
Finite element free vibration analysis of laminated composite stiffened shell, J Composite Mat 29(18) 2388-2422 (1995), 6A149
Elastic-plastic FE analysis of short flat bars with projections - Part 1: Shear loading, J Strain Anal Eng Des 31(1) 9-24 (Jan 1996), 6A407
Elastic-plastic FE analysis of short flat bars with projections - Part 12 Axial loading, J Strain Anal Eng Des 31(1) 25-33 (Jan 1996), 6A408

Effect of pitch distance, row spacing, end distance and bolt diameter on multi-fastened composite joints, Composites Part A Appl Sci and Manuf 27A(2) 105-110 (1996), 6A446

Three-dimensional FE analysis and strength evaluation of link chains in chain hoists subjected to impact loads, J Strain Anal Eng Des 31(1) 43-51 (Jan 1996), 6A468

Computational models for sandwich panels and shells, Appl Mech Rev 49(3) 155-200 (Mar 1996), 6A483

Influence of primary boundary conditions on the buckling of shallow cylindrical shells, J Construct Steel Res 36(1) 53-75 (1996), 6A500

Effect of damage growth on the aeroelastic response of composite structures, Mech Composite Mat Struct 2(4) 329-342 (Dec 1995), 6A661

Finite element analysis of delamination cracks in bonding of cross-ply laminates, Mech Composite Mat Struct 2(4) 281-294 (Dec 1995), 6A666

Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, Mech Composite Mat Struct 2(4) 309-328 (Dec 1995), 6A687

FE-shape sensitivity of elastoplastic response, Struct Optim 10(3-4) 231-238 (Dec 1995), 6A716

Optimization of a frame structure subjected to a plastic deformation, Struct Optim 10(3-4) 197-208 (Dec 1995), 6A722

Structural optimization using the Newton modified barrier method, Struct Optim 10(3-4) 209-216 (Dec 1995), 6A725

Finite Element Model Updating in Structural Dynamics (Kluwer, MA, 1995) 7R1

Discretization considerations in moving load FE beam models, Finite Elements Anal Des 21(3) 129-144 (Jan 1996), 7A12

Finite element model tuning using automated structural optimization system software, AIAA J 34(2) 392-399 (Feb 1996), 7A13

Finite element modeling of behaviors of steel beams and connections in fire, J Construct Steel Res 36(3) 181-199 (1996), 7A14

Nonlinear FE approach to kineto-static analysis of elastic beams, Mech Machine Theory 31(3) 353-364 (Apr 1996), 7A15

Two-level additive Schwarz preconditioner for nonconforming plate elements, Numer Math 72(4) 419-447 (Feb 1996), 7A16

Validation of flexible beam elements in dynamics programs, Nonlinear Dyn 9(1-2) 21-36 (Feb 1996), 7A144

Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, Composite Struct 34(1) 29-42 (1996), 7A163

Semi-analytical solution for the dynamic response of thick composite plates in Hamilton systems, Finite Elements Anal Des 21(3) 201-212 (Jan 1996), 7A166

Towards the understanding of material property influence on automotive crash structures, Thin-Walled Struct 24(4) 285-313 (1996), 7A257

Thermal shocks in composite plates: A coupled thermoelastic FE analysis, Composite Struct 34(1) 1-12 (1996), 7A584

Shear lag in orthotropic beam flanges and plates with stiffeners, Int J Solids Struct 33(9) 1317-1334 (Apr 1996), 7A636

Effect of various approximations on predicted progressive failure in plain weave composites, Composite Struct 34(1) 13-20 (1996), 7A830

Low velocity impact damage in composite sandwich beams, Composite Struct 34(1) 21-27 (1996), 7A835

Damage tolerance of thick hybrid composite plate containing a local homispherical damage, Composite Struct 33(4) 227-236 (1995), 7A850

Optimization of laminated composite structures using a bilevel strategy, Composite Struct 33(4) 193-200 (1995), 7A908

Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), J Soc Mat Sci Japan 44(507) 1409-1416 (Dec 1995), 7A947

Development of simple, robust FEs based on refined theories for thick laminated beams, Comput Struct 59(3) 529-546 (May 1996), 8A12

Direct integration method for stochastic FE analysis of nonlinear dynamic response, Struct Eng and Mech 3(3) 273-287 (May 1995), 8A13

Elasto-plastic nonconforming solid element with variable nodes, Struct Eng and Mech 3(4) 325-340 (Jul 1995), 8A14

Finite element analysis of viscoplastic composites materials and structures, Mech Composite Mat Struct 3(1) 1-28 (Mar 1996), 8A15

Finite element method for frames with variable characteristics, Mech Res Commun 23(2) 213-220 (Apr 1996), 8A16

Inelastic vector FE analysis of RC shells, Struct Eng and Mech 4(2) 139-148 (Mar 1996), 8A17

Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells, Appl Mech Rev 49(7) 381-399 (Jul 1996), 8A18

Static and dynamic behavior of square plates with inhomogeneity subjected to non-uniform edge loading: Compression and tension, Struct Eng and Mech 4(2) 163-176 (Mar 1996), 8A19

Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, Int J Pressure Vessels Piping 67(1) 11-15 (1996), 8A20

Return mapping algorithm for plane stress and degenerated shell plasticity, Struct Eng and Mech 3(2) 185-192 (Mar 1995), 8A37

Simplified dynamic analysis of slender tapered thin-walled towers with additional mass and rigidity, Struct Eng and Mech 3(1) 61-74 (Jan 1995), 8A109

Vibration and stability analyses of thick anisotropic composite plates by finite strip method, Struct Eng and Mech 3(1) 49-60 (Jan 1995), 8A120

Fixed-hinged beam FEs used for dynamic analysis of frames, Mech Res Commun 23(2) 221-226 (Apr 1996), 8T132

Experimental and numerical study of composite T-joints, J Composite Mat 30(2) 190-209 (1996), 8A468

Three-dimensional analysis of stress and strain transmission through line joints of spatial linkage of plates, Struct Eng and Mech 3(1) 11-23 (Jan 1995), 8A489

Three-dimensional asymptotic FEM for anisotropic inhomogeneous and laminated plates, Int J Solids Struct 33(13) 1939-1960 (May 1996), 8A494

Inelastic buckling of tapered members with accumulated strain, Struct Eng and Mech 3(6) 611-622 (Nov 1995), 8A498

Elastic distortional buckling of overhanging beams, Struct Eng and Mech 4(1) 37-47 (Jan 1996), 8A505

Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, Struct Eng and Mech 3(3) 229-244 (May 1995), 8A521

Analysis of the fracture of brittle elastic materials using a continuum damage model, Struct Eng and Mech 3(5) 411-427 (Sep 1995), 8A608

Approximate discrete variable optimization of plate structures using dual methods, Struct Eng and Mech 3(4) 359-372 (Jul 1995), 8A706

Shape optimization of interior cutouts in composite panels, Struct Optim 11(1-2) 43-49 (Feb 1996), 8A725

Finite element modeling of reinforced concrete structures with laboratory verification, Struct Eng and Mech 3(6) 593-609 (Nov 1995), 8A749

New reinforcing steel model with bond-slip, Struct Eng and Mech 3(4) 299-312 (Jul 1995), 8A751

Strength of welded T-DT joints in rectangular and circular hollow section under variable axial loads, J Construct Steel Res 37(1) 1-31 (1996), 8A765

Application of nonlinear beam and cable element theory in the design of light mast structures (Chinese), J Comput Struct Mech Appl 12(2) 239-243 (May 1995), 9A23

Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), J Comput Struct Mech Appl 12(1) 53-59 (Feb 1995), 9A24

Discussion of analyzing of geometric nonlinear beams with large rotations (Chinese), J Comput Struct Mech Appl 12(4) 485-490 (Nov 1995), 9A25

FEM anlaysis of mode II crack in a laminated beam (Chinese), J Comput Struct Mech Appl 12(3) 261-266 (Aug 1995), 9A26

FEM for simply supported thin polygonic plates (Chinese), J Comput Struct Mech Appl 12(2) 244-248 (May 1995), 9A27

Finite element analysis for coupled creep elastoplastic damage response (Chinese), J Comput Struct Mech Appl 12(1) 26-38 (Feb 1995), 9A28

Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), J Comput Struct Mech Appl 12(1) 69-75 (Feb 1995), 9A29

Geometric nonlinear analysis of frame structures - II: 3D problem (Chinese), J Comput Struct Mech Appl 12(2) 133-141 (May 1995), 9A30

Geometric nonlinear analysis of frame structures - I: 2D problem (Chinese), J Comput Struct Mech Appl 12(1) 7-16 (Feb 1995), 9A31

Implementation of updating element library of structural analysis program system (Chinese), J Comput Struct Mech Appl 12(2) 212-220 (May 1995), 9T32

Linear and nonlinear FE analyses of pipe bends, Int J Pressure Vessels Piping 67(2) 211-217 (Jul 1996), 9A33

Super FEM for analyzing plate type truss structure (Chinese), J Comput Struct Mech Appl 12(2) 249-252 (May 1995), 9A72

Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, Composite Struct 34(2) 145-162 (1996), 9A199

Accuracy of composite shell elements in transient analysis involving multiple impacts, Comput Struct 59(4) 593-600 (May 1996), 9A208

Asymptotic formulae for correcting FE predicted natural frequencies of gravity and embankment dams, Soil Dyn Earthquake Eng 15(3) 161-169 (1996), 9A217

Dynamic stress analysis of an open-shaped railway bogie frame, Eng Failure Anal 3(1) 53-64 (Mar 1996), 9A219

Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), J Comput Struct Mech Appl 12(4) 387-393 (Nov 1995), 9A533

Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), J Soc Mat Sci Japan 45(2) 163-168 (Feb 1996), 9A554

Dynamic FE analysis of a nonlinear beam subjected to a moving load, Int J Solids Struct 33(12) 1673-1688 (May 1996), 9A566

Stress analysis of nonradial cylindrical shell intersections subjected to external loading, Int J Pressure Vessels Piping 67(2) 145-153 (Jul 1996), 9A588

Finite element applications to evaluate the stress and strain field in the vicinity of an imperfection in thin shells, Eng Trans 43(4) 545-552 (1995), 9A609

Nonlinear and postbuckling responses of curved composite panels with cutouts, Composite Struct 34(2) 213-240 (1996), 9A614

Overall stability and second-order analyses of tall building tubular structures with stepped cross-sections by FEMOL (Chinese), J Comput Struct Mech Appl 12(4) 417-428 (Nov 1995), 9A624

Explicit geometric stiffness matrix of quasi-conforming trapezoidal element and buckling analysis (Chinese), J Comput Struct Mech Appl 12(2) 160-169 (May 1995), 9A642

Modeling of subsoil flexibility in computations of complex 3D structural schemes of buildings, Arch Civil Eng 42(1) 83-103 (1996), 9A678

Damage zones in strain-hardening materials, Mech Mat 22(2) 131-147 (Feb 1996), 9A785

Contour integral method for stress intensity factors of mixed-mode crack (Chinese), J Comput Struct Mech Appl 13(1) 84-89 (Feb 1996), 9A797

Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), J Comput Struct Mech Appl 12(1) 110-115 (Feb 1995), 9A798

Moment transfer by shear in slab-column connections, ACI Struct J 93(2) 187-196 (Apr 1996), 9A919

Wet concrete loading of profiled trough girders, Thin-Walled Struct 25(2) 81-108 (1996), 9A927

Analysis and design of large diagonal bracing connections, Struct Eng Review 8(1) 1-27 (Feb 1996), 9A934

Stress concentrations of K tubular joints subjected to basic and combined loadings, Proc Inst Civil Eng Struct Build 116(1) 19-28 (Feb 1996), 9A958

Adaptive FE technique for thermal stress analysis of built-up structures, JSME Int J Ser A 39(2) 223-230 (Apr 1996), 10A8

Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, J Construct Steel Res 37(2) 93-113 (1996), 10A9

Optimization of direct domain decomposition methods, Comp Assisted Mech Eng Sci 3(1) 1-8 (1996), 10A10

Solution of problems on elastic-plastic contact interaction of bodies using a FEM, TsAGI 1(2) 150-158 (1994), 10A11

Finite element free vibration analysis of doubly-curved laminated composite shells, J Sound Vib 191(4) 491-504 (Apr 1996), 10A184

Stress analysis of junction of plate and shell built-up structures via special finite shell element, JSME Int J Ser A 39(2) 179-185 (Apr 1996), 10A614

Ply-level failure analysis of thick-section composite structures based on "smeared" FE results, J Thermoplastic Composite Mat 9(2) 108-117 (Apr 1996), 10A801

Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, Mech Solids 30(5) 157-163 (1995), 10A877

Treatment of strain reversal in structural members during the cooling phase of a fire, J Construct Steel Res 37(2) 115-135 (1996), 10A899

Finite element stress analysis of a hybrid fracture fixation plate, Med Eng Phys 18(3) 241-250 (Apr 1996), 10A1487

Finite Element Procedures (Prentice-Hall, Englewood Cliffs NJ, 1996) 11R1

Structural Mechanics: Graph and Matrix, 2nd edition - Appl and Eng Math Series (Wiley, New York, 1995) 11N38

Analysis of natural frequencies of delaminated composite beams based on FEM, Struct Eng and Mech 4(3) 243-255 (May 1996), 11A6

Design sensitivity analysis and optimization of nonlinear dynamic response for a motorcycle driving on a half-sine bump road, Struct Optim 11(2) 113-119 (Apr 1996), 11A7

Eigenvalue analysis of structures with flexible random connections, Struct Eng and Mech 4(3) 277-301 (May 1996), 11A8

Finite element modeling of 1D viscoelastic structures using anelastic displacement fields, J Guidance Control Dyn 19(3) 520-527 (Jun 1996), 11A9

Finite-element modeling of a smart cantilever plate with comparison with experiments, Smart Mat Struct 5(2) 165-170 (Apr 1996), 11A10

Geometric parameters for FE model updating of joints and constraints, Mech Syst Signal Processing 10(2) 171-182 (Mar 1996), 11A11

Large deformation FE analysis of cylindrically bending of metal strips (Chinese), J Comput Struct Mech Appl 13(2) 241-247 (May 1996), 11A12

Nonlinear FE analysis of composite frames, Proc Inst Civil Eng Struct Build 116(2) 244-247 (May 1996), 11A13

Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, Struct Eng and Mech 4(3) 257-276 (May 1996), 11A14

Shear capacity of plate girders with trapezoidally-corrugated webs, Thin-Walled Struct 26(1) 19-44 (1996), 11A15

Space-time mixed FEs for rods, J Sound Vib 192(3) 731-739 (May 1996), 11T16

Exact stiffness matrix for a beam element with axial force and shear deformation, Finite Elements Anal Des 22(1) 1-13 (May 1996), 11A33

Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, Finite Elements Anal Des 21(4) 265-289 (Apr 1996), 11A34

New pipe element for modeling 3D large deformation problems, Finite Elements Anal Des 22(1) 59-68 (May 1996), 11A37

Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, Finite Elements Anal Des 22(1) 41-57 (May 1996), 11A39

Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, Mech Composite Mat Struct 3(2) 153-179 (Jun 1996), 11A468

Interfacial debonding in laminated titanium matrix composites, Mech Mat 22(4) 279-290 (Apr 1996), 11A488

Direct identification of non-uniform beams using static strains, Int J Solids Struct 33(19) 2775-2787 (Aug 1996), 11A499

Bending of curved sandwich beams: A numerical approach, Composite Struct 34(2) 279-290 (1996), 11A503

Development of a new curved beam element with shear effect, Eng Comput 13(2/3/4) 9-25 (1996), 11A504

Simulation of stick-slip shear failure of rock masses by a nonlinear FEM (Japanese), Proc JSCE 537(I-35) 61-76 (Apr 1996), 11A577

Damage and localization in elastic materials with voids, Mech Cohesive-Frictional Mat 1(2) 129-144 (Apr 1996), 11A659

Design of joint position for minimum mass 3D frames, Struct Optim 11(2) 95-101 (Apr 1996), 11A719

Performance comparison of SAM and SQP methods for structural shape optimization, Struct Optim 11(2) 102-112 (Apr 1996), 11A732

Weighted residual method by Monte Carlo for random numerical analysis of structures (Chinese), J Comput Struct Mech Appl 13(2) 193-200 (May 1996), 11A741

Analysis of reinforced concrete members subject to shear and axial compression, ACI Struct J 93(3) 306-315 (Jun 1996), 11A744

Stringer panel model for structural concrete design, ACI Struct J 93(3) 295-305 (Jun 1996), 11A764

Energy and Finite Element Methods in Structural Mechanics, SI Units Edition (Taylor & Francis, PA, 1995) 12N2

Instability of a cylindrical shell under three-point bending, Thin-Walled Struct 26(2) 105-122 (1996), 12A6

Stress distributions in multi-fastened composite plates, Composite Struct 34(4) 427-436 (1996), 12A7

Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, Finite Elements Anal Des 22(2) 143-161 (Jun 1996), 12A179

Homology design for eigenvector of bending vibration using FEM, JSME Int J Ser C 39(2) 212-217 (Jun 1996), 12A192

Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, Composite Struct 34(4) 381-385 (1996), 12A550

Micromechanical analysis to predict the cord-rubber composite properties, Composite Struct 34(4) 361-369 (1996), 12A575

Lateral distortional buckling of monosymmetric I-beams under distributed vertical load, Thin-Walled Struct 26(2) 123-145 (1996), 12A614

Buckling and postbuckling of composite panels with cutouts subjected to combined loads, Finite Elements Anal Des 22(2) 163-185 (Jun 1996), 12A619

Local buckling of stiffened plates in offshore structures, J Construct Steel Res 38(1) 41-59 (1996), 12A622

Engineering analysis of buckling of delaminated beam plates, Composite Struct 34(4) 397-407 (1996), 12A628

Crashworthiness of automotive steel midrails: Thickness and material sensitivity, Thin-Walled Struct 26(2) 83-103 (1996), 12A632

Detection of flaws in sandwich plates, Composite Struct 34(4) 409-418 (1996), 12A792

Bulging of bolted guideways, J Mech Des 118(2) 280-285 (Jun 1996), 12A989

102E. Other solid mechanics applications

Deformation extrapolation and initial predictors in large-deformation FE analysis, Comput Mech 16(5) 281-289 (Aug 1995), 1A16

Development of 3D FEM for composite materials based on damage mechanics (Japanese), J Soc Mat Sci Japan 44(502) 921-926 (Jul 1995), 1A17

Fastening and joining: FE and BE analysis - A bibliography (1992-1994), Finite Elements Anal Des 20(3) 205-215 (Jul 1995), 1A18

Finite element simulation of powder consolidation in the formation of fiber reinforced composite materials, Int J Mech Sci 37(8) 883-897 (Aug 1995), 1A19

Large deformation FE analysis with inelastic constitutive models including damage, Comput Mech 16(5) 315-327 (Aug 1995), 1A20

Nonlinear analysis and elastic-plastic behavior of anisotropic structures, Finite Elements Anal Des 20(3) 155-177 (Jul 1995), 1A21

Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, Int J Pressure Vessels Piping 65(1) 47-52 (1996), 1A22

Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 1: Theory for linear structural dynamics, Finite Elements Anal Des 20(3) 179-194 (Jul 1995), 1A111

Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 2: Theory for nonlinear structural dynamics, Finite Elements Anal Des 20(3) 195-204 (Jul 1995), 1A112

Simple FE analysis of axisymmetric vibration of annular and circular plates, Int J Mech Sci 37(8) 861-871 (Aug 1995), 1A154

Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, Int J Plasticity 11(5) 501-521 (1995), 1A520

Observations on element performance in isochoric and dilatant plastic flow, Int J Numer Methods Eng 38(17) 2887-2906 (Sep 1995), 1A523

Comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on FE analysis and extended classical lamination theory, Mech of Composite Mat 31(3) 341-350 (Jun 1995), 1A553

Finite element analysis of Saint-Venant end effects in micropolar elastic solids, Eng Comput 12(6) 571-587 (Sep 1995), 1A562

Three-dimensional intelligent FEM for design of composite structures: Design of symmetric laminates by shell element (Japanese), J Soc Mat Sci Japan 44(502) 916-920 (Jul 1995), 1A584

Simulation of metal-forming processes by the FEM, Int J Plasticity 11(5) 623-651 (1995), 1A710

Finite element analysis of edge lamination during hot rolling process of aluminum alloy, Arch Appl Mech 65(6) 365-373 (Jul 1995), 1A716

Development of a FE based strain accumulation model for the prediction of fatigue lives in highly stressed Ti components, Int J Fatigue 17(6) 385-398 (Aug 1995), 1A750

Mesh-dependence in local approach to creep fracture, Int J Damage Mech 4(3) 230-250 (Jul 1995), 1A770

Finite element approach to 3D singular stress states in anisotropic multi-material wedges and junctions, Int J Solids Struct 33(1) 33-47 (Jan 1996), 2A377

Experimental results and FE modeling of an embedded polarimetric sensor, Composites 26(11) 775-783 (Nov 1995), 2A425

Mehrphasige FE in der Verformungs- und Versagensanalyse grob mehrphasiger Werkstoffe (German), Arch Appl Mech 65(7) 496-506 (Sep 1995), 2T426

Evaluation of stress intensity factors for steel tubular T-joints using line spring and shell elements, Eng Failure Anal 2(1) 31-44 (Mar 1995), 2A619

p-version FE approximations of stress intensity factors for cracked plates including shear deformation, Eng Fracture Mech 52(3) 493-502 (Oct 1995), 2A620

Dynamic elastic-plastic FEM analysis of a fracture specimen under plane stress state, Eng Fracture Mech 52(4) 755-763 (Nov 1995), 2A627

Temperature distribution and thermal distortion due to frictional heating in a dry shaft-bush tribosystem using the FEM, Int J Mech Sci 37(9) 1021-1034 (Sep 1995), 2A817

Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, JSME Int J Ser A 38(4) 601-609 (Oct 1995), 3A13

Elasto-plastic FE simulation of successive UO-bonding processes of sheet metal, J Mat Processing Tech 53(3-4) 643-661 (Sep 1995), 3A14

Finite element simulation of 3D mechanical behavior of NiTi shape memory alloys, Arch Mech 47(3) 537-556 (1995), 3A15

Finite-element simulation of the bending process of steel-polymer-steel laminate sheets, J Mat Processing Tech 52(2-4) 319-337 (Jul 1995), 3A16

Forms of damping matrix in the FE analysis of flexible mechanisms, Machine Dyn Prob 10 7-19 (1995), 3A17

Inverse analysis of galvanic corrosion using fuzzy a priori information, JSME Int J Ser A 38(4) 541-546 (Oct 1995), 3A18

Rigid FE and its applications in engineering, Acta Mech Sinica 11(1) 44-50 (1995), 3A19

Tangent modulus matrix for FE analysis of hyperelastic materials, Acta Mech 112(1-4) 187-201 (1995), 3A20

Numerical analysis of stresses at oblique holes in plates subjected to tension and bending, J Strain Anal Eng Des 30(4) 317-323 (Oct 1995), 3A443

Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, JSME Int J Ser A 38(4) 547-553 (Oct 1995), 3A460

Effects of hypoelastic model and plastic hardening on numerical simulation: Shear deformation of 2D plane block, JSME Int J Ser A 38(4) 531-540 (Oct 1995), 3A463

Analytical and FE predictions of residual stresses in cold worked fastener holes, J Strain Anal Eng Des 30(4) 291-304 (Oct 1995), 3A465

Dual FE approach for stresses of elasto-perfectly plastic bodies, Math Comput 64(212) 1455-1462 (Oct 1995), 3A478

Rolling-deformation characteristics of clad materials determined by model experiments and numerical simulation: Numerical simulation of clad rolling by the rigid-plastic FEM, J Mat Processing Tech 53(3-4) 544-551 (Sep 1995), 3A603

Finite-element analysis of solidification of aluminum with natural convection, J Mat Processing Tech 52(2-4) 592-609 (Jul 1995), 3A633

Thermomechanical response analysis of lithographic mask structure using FEM, JSME Int J Ser A 38(4) 563-571 (Oct 1995), 3A644

Routine FE determination of stress intensity factors using a Muller-Breslau influence function technique, Fatigue Fracture Eng Mat Struct 18(10) 1115-1132 (Oct 1995), 3A682

Determination of the optimum blank shape when deep drawing nonaxisymmetric cups, using a FEM: Simplified determination of optimum blank shape and limiting drawing ratio by inverse FE procedure, JSME Int J Ser A 38(4) 473-479 (Oct 1995), 3A851

Computational Methods in Micromechanics, AMD-Vol 212/MD-Vol 62 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N1

Numerical Implementation and Application of Constitutive Models in the Finite Element Method, AMD-Vol 213/MD-Vol 63 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N2

Application of the FEM to postbuckling analysis of laminated plates, AIAA J 33(12) 2379-2385 (Dec 1995), 4A13

Finite element analysis of the rake angle effects in orthogonal metal cutting, Int J Mech Sci 38(1) 1-17 (Jan 1995), 4A14

Recent FE applications of the incremental endochronic plasticity, Int J Plasticity 11(7) 843-865 (1995), 4A15

Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, Mech Mat 21(4) 265-279 (Nov 1995), 4A16

Thermo-elastic FE fatigue failure analysis, Eng Failure Anal 2(3) 197-207 (Sep 1995), 4A17

Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, Finite Elements Anal Des 20(4) 283-298 (Sep 1995), 4A46

Large-scale crystal plasticity computations of microstructural failure modes, Comput Syst Eng 6(3) 225-240 (Jun 1995), 4A456

Finite element-mathematical programming method for elastoplastic contact problems with friction, Finite Elements Anal Des 20(4) 273-282 (Sep 1995), 4A459

Viscohyperelastic FE model for rubber, Comput Methods Appl Mech Eng 127(1-4) 163-180 (Nov 1995), 4A476

Modeling drawbeads in sheet metal forming, Int J Mech Sci 38(1) 59-77 (Jan 1995), 4A629

Analysis of the extrusion of bimetallic tubes by numerical simulation, Int J Mech Sci 38(2) 157-173 (Feb 1996), 4A631

Finite element analysis of orthogonal metal cutting mechanics, Int J Machine Tools Manuf 36(2) 255-273 (Feb 1996), 4A636

Development and FE analysis of the finishing system using rotating magnetic field, Int J Machine Tools Manuf 36(2) 245-253 (Feb 1996), 4A654

Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, Mech Mat 21(4) 281-301 (Nov 1995), 4A705

Determination of stress intensity factor in ultrasonic fatigue loading by means of dynamic modal analysis and 3D FE calculation, Eng Fracture Mech 52(6) 1079-1086 (Dec 1995), 4A708

Numerical analysis of a railroad bolt hole fracture problem, Theor Appl Fracture Mech 24(1) 1-12 (Dec 1995), 4A748

Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, Med Eng Phys 17(8) 559-566 (Dec 1995), 4A1372

Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, J Eng Indust 117(3) 372-377 (Aug 1995), 5A17

Deformation analysis of simple-shear sheet specimens, J Eng Mat Tech 117(3) 269-277 (Jul 1995), 5A18

Finite element analysis of stresses due to pitting of steel specimens under different cyclic bending stresses, Eng Fracture Mech 53(1) 141-151 (Jan 1996), 5A19

Development of a thermo-viscoplastic cutting model using FEM, Int J Machine Tools Manuf 36(3) 379-397 (Mar 1996), 5A558

Analysis of flow and heat transfer in twin-roll strip casting by FEM, J Eng Indust 117(3) 304-315 (Aug 1995), 5A559

Modeling and numerical analysis of compression molding of 3D thin parts with curing process, J Eng Mat Tech 117(3) 239-254 (Jul 1995), 5A583

Adaptive FEMs for continuum damage modeling, Comput Struct 58(5) 887-900 (Mar 1996), 5A616

Numerical simulation of the nonstationary impact interaction between deformable structural elements, J Machinery Manuf Reliab 2 16-21 (1995), 5A678

Proposal of a seismic isolation structure for urban tunnels and the method to evaluate its isolation effects (Japanese), Proc JSCE 525(I-33) 275-285 (Oct 1995), 5A1326

Elasto-visco-plastic FE analysis of a cold upsetting test and stress-state validation by residual-stress measurements, J Mat Processing Tech 54(1-4) 120-128 (Oct 1995), 6A13

Finite element analysis of plastic relaxation and plastic accumulation at second phase particles, Acta Mat 44(2) 801-811 (Feb 1996), 6A14

Finite element evaluation of elasto-plastic accommodation energies during solid state transformations: Coherent, spherical precipitate in finite matrix, Acta Mat 44(2) 437-444 (Feb 1996), 6A15

Parameter sensitivity in nonlinear thermal problems, Comp Assisted Mech Eng Sci 2(4) 253-270 (1995), 6A16

Performance of isoparametric FEs in stress intensity factor determination, Int J Fracture 72(3) 259-275 (1995), 6A17

Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, J Mat Processing Tech 55(1) 5-10 (Nov 1995), 6A18

Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, Comp Assisted Mech Eng Sci 2(4) 289-305 (1995), 6A69

Effects of particle morphology and spacing on the strain fields in a plastically deforming matrix, Acta Mat 44(2) 789-799 (Feb 1996), 6A416

Modeling the influence of filler particles on surface geometry in drawn PET film, J Strain Anal Eng Des 31(1) 65-73 (Jan 1996), 6A418

Analysis of the variation of the cold-rolling characteristics of rolling force, strip shape, stress and temperature, for 3D strip, J Mat Processing Tech 54(1-4) 326-340 (Oct 1995), 6A547

Study on process improvements of multi-stage deep-drawing by the FEM, J Mat Processing Tech 54(1-4) 230-238 (Oct 1995), 6A562

Finite-element analysis of sheet metal forming processes, J Mat Processing Tech 54(1-4) 70-75 (Oct 1995), 6A565

Finite element simulation of mode I dynamic, ductile fracture initiation, Int J Solids Struct 33(8) 1191-1207 (Mar 1996), 6A594

Evaluation of bimaterial stress intensity factors using a FE and BE alternating method, Eng Fracture Mech 53(2) 289-302 (Jan 1996), 6A639

Analysis of cracks perpendicular to bimaterial interfaces using a novel FE, Int J Fracture 73(1) 1-23 (1995), 6A686

Numerical modeling of thermal waves via internal state variable approach, Comp Assisted Mech Eng Sci 2(4) 307-319 (1995), 6A1168

Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, Med Eng Phys 18(1) 70-78 (Jan 1996), 6A1317

Methodology for quantitative error-assessment of FE models, Finite Elements Anal Des 21(3) 213-223 (Jan 1996), 7A9

Development and validation of a FE model for multiple-pass radial forging, J Mat Processing Tech 55(3-4) 432-441 (Dec 1995), 7A17

Element-by-element matrix decomposition and step-by-step integration method for transient dynamic problems, Appl Math Mech 16(11) 1039-1045 (Nov 1995), 7A18

Finite element analysis of dynamic behavior of viscoelastic materials using FFT, JSME Int J Ser A 39(1) 71-77 (Jan 1996), 7A19

Finite element analysis of substation composite insulators, Composites Sci Tech 55(4) 375-389 (1995), 7A20

Fractal two-level FE analysis of cracked Reissner's plate, Thin-Walled Struct 24(4) 315-334 (1996), 7A21

Influence of the die arc on formability in cylindrical cup-drawing, J Mat Processing Tech 55(3-4) 360-369 (Dec 1995), 7A22

Nonlinear FE analysis of horizontal elastomerics of revolution, Finite Elements Anal Des 21(3) 145-157 (Jan 1996), 7A23

Simulation of the viscoplastic forming process by the FEM, J Mat Processing Tech 55(3-4) 442-447 (Dec 1995), 7A24

Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, JSME Int J Ser A 39(1) 99-107 (Jan 1996), 7A25

Use of FEM as an effective teaching tool and as a flexible aid in the simulation of manufacturing processes and multiple rigid-body collisions, J Mat Processing Tech 55(3-4) 391-407 (Dec 1995), 7A26

Generalized self-consistent FE iterative averaging method (Chinese), J Dalian Univ Tech 35(6) 795-800 (1995), 7A594

Modeling of hydrogen transport and elastically accommodated hydride formation near a crack tip, J Mech Phys Solids 44(2) 179-205 (Feb 1996), 7A822

Measurement of Young's modulus and stress analysis of a magnetic thin film, JSME Int J Ser A 39(1) 129-134 (Jan 1996), 7A868

Application of FEs to the stress analysis of articular cartilage, Med Eng Phys 18(2) 89-98 (Mar 1996), 7A1405

Dynamic microstructural FEM for granular structures, Eng Fracture Mech 53(4) 593-606 (Mar 1996), 8A21

Error estimates of semi-analytical solution of mixed state Hamiltonian element (Chinese), J Dalian Univ Tech 35(4) 437-441 (Aug 1995), 8A22

Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, Int J Plasticity 12(1) 93-115 (1996), 8A23

Inclusion of elastic deformation in rigid-plastic FE analysis, Int J Mech Sci 38(6) 621-631 (Jun 1996), 8A24

Two-dimensional five-noded FE to model power singularity, Int J Fracture 74(1) 89-97 (1995), 8A25

Quasi-conformal trapezoidal element for orthotropic thin plate and thin shell (Chinese), J Dalian Univ Tech 35(1) 17-24 (Feb 1995), 8A44

Finite element analysis of laminated composites using an unmixing-mixing/viscoplastic model, AIAA J 34(3) 634-637 (Mar 1996), 8T440

Orientation dependent tensile deformation behavior of two-phase laminate composites: Model analysis and FE results, Acta Mat 44(3) 977-989 (Mar 1996), 8A459

Service-life estimation of extrusion dies by numerical simulation of fatigue-crack-growth, Int J Mech Sci 38(5) 527-538 (May 1996), 8A579

Assessment of the notch stress-strain conversion rules for short flat bars with projections subjected to axial and shear loading, J Strain Anal Eng Des 31(2) 91-110 (Mar 1996), 8A591

Calculation of dynamic stress intensity factors for a cracked thick-walled cylinder, Int J Fracture 73(4) 359-366 (1995), 8A617

Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, Theor Appl Fracture Mech 24(3) 203-215 (Mar 1996), 8A621

Finite element fracture reliability of stochastic structures, Struct Eng and Mech 3(1) 1-10 (Jan 1995), 8A624

Numerical investigations of 3D constraint effects on brittle fracture in SE(B) and C(T) specimens, Int J Fracture 74(2) 131-161 (1995), 8A633

Finite element solution for elliptical cracks using the ICCI method, Eng Fracture Mech 53(4) 519-526 (Mar 1996), 8A681

Influence of stress on the measurement of mechanical properties using nanoindentation - Part II: FE Simulations, J Mat Res 11(3) 760-768 (Mar 1996), 8A697

Finite element analysis of the stability of static thermoelastic contact, J Thermal Stresses 19(2) 169-184 (Mar 1996), 8A1159

Three-dimensional thermoelastic contact between two plates with bolted joints, J Thermal Stresses 19(2) 123-138 (Mar 1996), 8A1227

Expressions for predicting the residual stress in surface induction hardening of steel bars, Model Simulation Mat Sci Eng 4(1) 111-122 (Jan 1996), 8A1233

Dynamic analysis of flexible mechanisms by FEM, Machine Dyn Prob 14 7-91 (1995), 9A34

Finite element analysis of solid-fluid interaction considering the geometric nonlinearity of the solid (Chincse), J Comput Struct Mech Appl 12(4) 453-461 (Nov 1995), 9A35

Finite element impact analysis of doubly-curved laminated composite shells, J Reinforced Plastics Composites 15(3) 322-342 (Mar 1996), 9A36

Finite element method for electrostrictive ceramic devices, Int J Solids Struct 33(12) 1757-1779 (May 1996), 9A37

Static stiffness of unbounded soil by FEM, J Geotech Eng 122(4) 267-273 (Apr 1996), 9A38

Suppression of chatter vibration in inner-diameter cutting, JSME Int J Ser C 39(1) 25-33 (Mar 1996), 9A228
Effects of microstructure on the macroscopic elasto-plastic properties of metal matrix composites, Acta Mech Solida Sinica 9(1) 52-58 (1996), 9A547
Analysis of closed cell metal composites, Acta Mat 44(5) 2115-2126 (May 1996), 9A557
Effects of an interfacial region on the transverse behavior of metal-matrix composites: A FE analysis, Acta Mat 44(5) 2043-2055 (May 1996), 9A558
Stress distribution caused by force with saw (Chinese), J Dalian Univ Tech 36(2) 184-188 (Mar 1996), 9A605
Refined method of geometric stiffness matrix for analysis of thin plate stability (Chinese), J Dalian Univ Tech 36(2) 141-144 (Mar 1996), 9A628
Live load induced vibrations in Ullevi stadium: Dynamic soil analysis, Soil Dyn Earthquake Eng 15(3) 171-188 (1996), 9A668
FE-simulation of crack paths in the real microstructure of an Al(6061)-SiC composite, Acta Mat 44(5) 1765-1779 (May 1996), 9A816
Constraint effect of crack due to clad material (Japanese), J Soc Mat Sci Japan 45(2) 201-205 (Feb 1996), 9A845
Analyses on interactions of two identical semi-elliptical surface cracks in the internal surface of a cylindrical pressure vessel, Int J Pressure Vessels Piping 67(2) 203-210 (Jul 1996), 9A846
Finite-element analysis of selectively SiC fiber-reinforced titanium composites, Int J Fracture 75(2) 137-155 (1995), 10A12
Validation of a nonlincar 2D interface element for FE analysis, Exp Mech 36(1) 49-54 (Mar 1996), 10A13
Finite element simulation of dynamic responses of piezoelectric actuators, J Sound Vib 191(4) 519-538 (Apr 1996), 10A492
Procedure for numerical analysis of stress singularities at the corner points of 3D bodies, Mech Solids 30(5) 65-71 (1995), 10A518
Combined programming and iteration algorithm for FE analysis of 3D contact problems, Acta Mech Sinica 11(4) 318-326 (1995), 10A519
Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part I: FE analysis, J Pressure Vessel Tech 118(2) 154-160 (May 1996), 10A544
Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part II: Comparison between FE analysis and theory, J Pressure Vessel Tech 118(2) 161-167 (May 1996), 10A545
Generalized self-consistent model for composites with functionally graded and multilayered interphases: Transfer matrix approach, Mech Mat 22(3) 219-247 (Mar 1996), 10A567
Micromechanical modeling of SCS-6 fiber reinforced Ti-6Al-4V under transverse tension: Effect of fiber coating, J Composite Mat 30(5) 561-588 (1996), 10A586
Improved viscous boundary for dynamic soil-structure interaction, Comp Assisted Mech Eng Sci 3(1) 55-64 (1996), 10A686
Influence of the tool clearance in the cylindrical cup-drawing process, J Mat Processing Tech 57(1-2) 4-13 (Feb 1996), 10A697
Upper-bound and FE analysis of axisymmetric hot extrusion, J Mat Processing Tech 57(1-2) 14-22 (Feb 1996), 10A699
Cylinders and rings hot upset forging analysis by the FEM (Spanish), J Brazilian Soc Mech Sci 18(1) 24-32 (Mar 1996), 10A700
Finite-element simulation of axisymmetric preforms in precision forging at elevated temperatures, J Mat Processing Tech 57(1-2) 103-111 (Feb 1996), 10A701
Simulation of the precision forging of bevel gears using implicit and explicit FE techniques, J Mat Processing Tech 57(1-2) 164-171 (Feb 1996), 10A702
Technique of tool-shape optimization in large scale problems of metal forming, J Mat Processing Tech 57(1-2) 79-84 (Feb 1996), 10A709
Buckling and fracture behavior of delaminations, Eur J Mech A 15(2) 183-198 (1996), 10A754
Stress intensity factors in 2D crack problems by using the superimposed meshes method, Eng Fracture Mech 54(1) 113-125 (May 1996), 10A777
Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, Int J Damage Mech 5(2) 150-170 (Apr 1996), 10A796
Local grid refinement method for determining stress intensity factors for cracks at notches, Fatigue Fracture Eng Mat Struct 19(4) 523-528 (1996), 10A816
Gradient plasticity in numerical simulation of concrete cracking, Eur J Mech A 15(2) 295-320 (1996), 10A828
K-calibration and standardization of ceramic specimen, Eng Fracture Mech 54(1) 167-169 (May 1996), 10A837
Friction laws in metal forming, Mech Solids 30(6) 73-87 (1995), 10T958
Study on parameter optimization in the circumferential GTA welding of aluminum pipes using a semi-analytical FEM, J Mat Processing Tech 57(1-2) 95-102 (Feb 1996), 10A1037
Modeling of thermal stresses during an electron-beam welding process, J Thermal Stresses 19(3) 211-236 (May 1996), 10A1329
Prediction of thermal stresses during vertical solidification of a pure metal with density change, J Mat Processing Tech 57(1-2) 85-94 (Feb 1996), 10A1337
Computational machining of titanium alloy: FE modeling and a few results, J Manuf Sci Eng 118(2) 208-215 (May 1996), 11A17
Dynamic shakedown of structures with variable appended masses and subjected to repeated excitations, Int J Plasticity 12(2) 215-228 (1996), 11A18
Effective modulus methods in 2D creep damage problems and FE analysis (Chinese), J Comput Struct Mech Appl 13(2) 217-225 (May 1996), 11T19
Finite element modeling of double lap wood joints, J Adhesion 56(1-4) 217-228 (1996), 11A20
Finite elements based on differential equations, Z Angew Math Mech 76(5) 265-271 (1996), 11A21
Notes on FEM for dynamic contact-impact problems (Chinese), J Comput Struct Mech Appl 13(2) 248-252 (May 1996), 11T22
Power flow analysis of beam members with multiple wave types, Finite Elements Anal Des 21(4) 253-264 (Apr 1996), 11A23
Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, Finite Elements Anal Des 22(1) 69-83 (May 1996), 11A32
Analysis of stress concentration factors for stepped plates based on a crack tip stress intensity approach, J Strain Anal Eng Des 31(3) 197-204 (May 1996), 11A421
Class of Winkler-type contact problems, Z Angew Math Mech 76(5) 273-279 (1996), 11A425
Improved method for determining contact stresses, J Strain Anal Eng Des 31(3) 169-176 (May 1996), 11A426
Finite element method for nonlinear viscoelastic analysis of laminated composite plates (Chinese), J Dalian Univ Tech 36(3) 252-257 (May 1996), 11A443
Evolutionary structural optimization for problems with stiffness constraints, Finite Elements Anal Des 21(4) 239-251 (Apr 1996), 11A773
Effect of debonding forces on bonded orthodontic brackets: FE study, Bio-Med Mat Eng 6(2) 113-121 (1996), 11A1480
Analysis of a class of nonconforming FE for crystalline microstructures, Math Comput 65(215) 1111-1135 (Jul 1996), 12A8
Finite element incremental approach and exact rigid body inertia, J Mech Des 118(2) 171-178 (Jun 1996), 12A9
Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, Int J Pressure Vessels Piping 68(2) 161-167 (1996), 12A10
Finite-element simulation of hole-flanging process of circular sheets of anisotropic materials, Int J Mech Sci 38(8-9) 917-933 (Sep 1996), 12A11
Multilayer hybrid-stress FE analysis of composite laminates with delamination cracks originating from transverse cracking, Eng Fracture Mech 54(5) 713-729 (Jul 1996), 12A12
Effects of obstacles on Rayleigh wave dispersion obtained from the SASW test, Soil Dyn Earthquake Eng 15(4) 223-231 (1996), 12A220
Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell FE model, Comput Methods Appl Mech Eng 132(1-2) 63-116 (May 1996), 12A529
Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, J Mat Processing Tech 60(1-4) 1-734 (Jun 1996), 12A674
Evaluation of the preform design of a stepped forging part by coupled thermoviscoplastic FE analysis and viscoplasticity, J Mat Processing Tech 57(3-4) 278-287 (Feb 1996), 12A679
Finite-element prediction of densification kinetics during the hot isostatic pressing of metal powder compacts, J Mat Processing Tech 57(3-4) 382-392 (Feb 1996), 12A700
Fractal two-level FEM for cracked Kirchhoff's plates using DKT elements, Eng Fracture Mech 54(5) 703-711 (Jul 1996), 12A737
Three-dimensional failure analysis of plain weave textile composites using a global-local FEM, J Composite Mat 30(9) 984-1003 (1996), 12A760
Asymptotic and FE analyses of mode III dynamic crack growth at a ductile-brittle interface, Int J Fracture 76(1) 61-77 (1995), 12A764
Dynamic crack growth in TDCB specimens, Int J Mech Sci 38(10) 1073-1088 (Oct 1996), 12A766
Parametric study of stress sources in journal bearings, Int J Mech Sci 38(8-9) 1001-1015 (Sep 1996), 12A961

102G. Fluid mechanics applications

Determination of flow stress by inverse solution using FEM, Comput Mech 16(5) 290-296 (Aug 1995), 1A23
Finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities, Numer Math 71(2) 135-157 (Aug 1995), 1A24
Numerical computations of steady homenthalpic non-equilibrium flows, Comput Fluids 24(6) 719-737 (Jul 1995), 1A25
Taylor weak statement FEMs for computational fluid dynamics, Int J Numer Methods Fluids 21(4) 273-294 (Aug 1995), 1A26
Higher order FE techniques for viscoelastic flow problems with change of type and singularities, J Non-Newtonian Fluid Mech 59(1) 49-72 (Aug 1995), 1A484
Quantification of Uncertainty in Computational Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N3
Comparison study on multivariant and univariant FEs for 3D incompressible viscous flows, Int J Numer Methods Fluids 21(8) 683-696 (Oct 1995), 2A11
Control-volume based FEM for 3D incompressible turbulent fluid flow, heat transfer, and related phenomena, Int J Numer Methods Fluids 21(7) 591-613 (Oct 1995), 2A12
Element separation property and parallel FEMs for the Navier-Stokes equation, Appl Math letters 8(4) 97-102 (Jul 1995), 2A13
Finite element model for high-velocity channels, J Hydraul Eng 121(10) 710-716 (Oct 1995), 2T14
Introduction of turbulent model in a mixed finite volume and FEM, Int J Numer Methods Fluids 21(8) 667-681 (Oct 1995), 2A15
Transient solutions for 3D lid-driven cavity flows by a least-squares FEM, Int J Numer Methods Fluids 21(5) 413-432 (Sep 1995), 2A16
Variational FEM for stationary nonlinear fluid-solid interaction, J Comput Phys 121(2) 347-356 (Oct 1995), 2A201
New mixed FEM for viscoelastic flows governed by differential constitutive equations, J Non-Newtonian Fluid Mech 59(2-3) 215-243 (Sep 1995), 2A388
Finite element solution of the torsion equations for radial lip seals, Trib Trans 38(4) 781-790 (Oct 1995), 2A818
p-version least squares FE formulation for 3D, isothermal, incompressible, non-Newtonian fluid flow, Comput Struct 57(5) 799-816 (Dec 1995), 2A896
Mixed FEs for accurate particle tracking in saturated groundwater flow, Adv Water Resources 18(5) 277-294 (1995), 2A1256
12th AIAA Computational Fluid Dynamics Conference Proceedings, June 19-22, 1995, San Diego CA (AIAA, MD, 1995) 3N3
Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, Acta Mech Sinica 11(1) 15-19 (1995), 3A21
Parallel block preconditioning techniques for the numerical simulation of the shallow water flow using FEMs, J Comput Phys 122(1) 39-50 (Nov 1995), 3A22
Development of passive microvalves by the FEM, J Micromech Microeng 5(3) 226-230 (Sep 1995), 3A392
New mixed FEM for computing viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 27-52 (Oct 1995), 3A455
p-version least squares FE formulation for 3D, incompressible, non-isothermal, non-Newtonian fluid flow, Comput Struct 58(1) 85-105 (Jan 1996), 3A911
Comparison of three solvers for viscoelastic fluid flow problems, J Non-Newtonian Fluid Mech 60(2-3) 155-177 (Nov 1995), 4A18
Finite element method: Is weighted volume integration essential?, Adv Water Resources 18(6) 345-352 (1995), 4T19
Finite element methods in large-scale computational fluid dynamics, Int J Numer Methods Fluids 21(10) 783-1014 (Nov 1995), 4A20
Sedimentation of a sphere through an elastic fluid - Part I: Steady motion, J Non-Newtonian Fluid Mech 60(2-3) 225-257 (Nov 1995), 4A21
Modeling of 1D turbidity currents with a dissipative-Galerkin FEM, J Hydraul Res 33(5) 623-648 (1995), 4T921
Derivation of minimal support basis functions for the discrete divergence operator, J Comput Appl Math 61(1) 105-116 (Jul 1995), 4A975
Parameter identification for steady-state groundwater flow, Finite Elements Anal Des 20(4) 233-252 (Sep 1995), 4A980
Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part I: Computation of flow around rectangular cylinders, Comput Methods Appl Mech Eng 127(1-4) 87-97 (Nov 1995), 4A982
Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part II: Aerodynamic characteristics of a rectangular cylinder with an angle of attack, Comput Methods Appl Mech Eng 127(1-4) 99-113 (Nov 1995), 4A983
Least-squares FEM for low-Mach-number compressible viscous flows, Int J Numer Methods Eng 38(21) 3591-3610 (Nov 1995), 4A997
Decoupled algorithm for solving a finite element problem for the approximation of viscoelastic fluid flow, Numer Math 72(2) 223-238 (Dec 1995), 5T20
Sloshing analysis method using existing FEM structural analysis code, J Pressure Vessel Tech 117(3) 268-272 (Aug 1995), 5A21
Least-squares FEM for incompressible flow in stress-velocity-pressure version, Comput Methods Appl Mech Eng 128(1-2) 1-9 (Dec 1995), 5A891
Application of the FEM to acoustic scattering problems, AIAA J 34(1) 29-34 (Jan 1996), 6A19
Finite element analysis of anisotropic fluid suspensions, Int J Numer Methods Fluids 22(1) 11-27 (Jan 1996), 6A20
Finite element solution of incompressible flows using an explicit segregated approach, Arch Comput Methods Eng 2(4) 69-93 (1995), 6A21
Comparison of parallelization techniques for a FE quasigeostrophic model of regional ocean circulation, Int J Supercomput Appl High Perform Comput 9(4) 256-279 (ter 1995), 6A23
Algorithm for simulation of steady free surface flows, Int J Numer Methods Fluids 22(2) 103-120 (Jan 1996), 6A902
Model verification on 3D tidal current analysis in Tokyo Bay, Int J Numer Methods Fluids 22(1) 43-66 (Jan 1996), 6A936
Penalty upwind FEM for diffusive convection problem in double-diffusive system, J Hydrodyn 7(4) 63-71 (1995), 6A1187
Eulerian FEM for time-dependent free surface problems in hydrodynamics, Int J Numer Methods Fluids 22(3) 175-194 (Feb 1996), 7A27
Finite-element analysis of magnetically driven recirculating flow in electromagnetic near net shape casting, J Mat Processing Tech 55(3-4) 351-359 (Dec 1995), 7A28
Hybrid prismatic-tetrahedral grid generation for viscous flows around complex geometries, AIAA J 34(2) 291-298 (Feb 1996), 7A29
Natural extension of the conventional finite volume method into polygonal unstructured meshed for CFD application, Appl Math Model 20(2) 170-183 (Feb 1996), 7A30
New hybrid-streamline-upwind FEM in dual space: Fundamental theory and discrete Del operator, JSME Int J Ser B 39(1) 28-35 (Feb 1996), 7T31
Three-dimensional unstructured adaptive multigrid scheme for the Navier-Stokes equations, AIAA J 34(2) 281-290 (Feb 1996), 7A32
Simple FE formulation for a laminated composite plate with piezoelectric layers, J Intelligent Mat Syst Struct 6(6) 776-782 (Nov 1995), 7A570
Analysis of a streamline diffusion FEM for the Stokes and Navier-Stokes equations, SIAM J Numer Anal 33(1) 107-127 (Feb 1996), 7A1066
Multilevel mesh independence principle for the Navier-Stokes equations, SIAM J Numer Anal 33(1) 17-30 (Feb 1996), 7A1071
Unstructured tetrahedral mesh generation for 3D viscous flows, Int J Numer Methods Eng 39(4) 549-567 (Feb 1996), 7A1073
Computational Fluid Dynamics: An Introduction, Second Edition (Springer-Verlag, New York, 1995) 8N1
Finite element analysis of free surface flow through gates, Int J Numer Methods Fluids 22(5) 375-392 (Mar 1996), 8A26
Finite element simulation of 2D-square cavity flow (Chinese), J Dalian Univ Tech 35(2) 198-202 (Apr 1995), 8A27
Perspective on unstructured grid-flow solvers, AIAA J 34(3) 533-547 (Mar 1996), 8T28
Breaking waves and wave-current interaction in shallow water: A 2DH FE model, Int J Numer Methods Fluids 22(5) 429-444 (Mar 1996), 8A198
Symmetric formulation and SUPG scheme for the shallow-water equations, Adv Water Resources 19(3) 123-131 (Jun 1996), 8T882
Artificial boundaries and flux and pressure conditions for the incompressible Navier-Stokes equations, Int J Numer Methods Fluids 22(5) 325-352 (Mar 1996), 8A906
Comparison of some estationary methods with the GMRES in the petroleum reservoir simulation using non-structured Voronoi grids (Spanish), J Brazilian Soc Mech Sci 17(4) 360-372 (1995), 8A1373
Finite element analysis of solid-fluid interaction considering the geometric nonlinearity of the solid (Chinese), J Comput Struct Mech Appl 12(4) 453-461 (Nov 1995), 9A35
Boundary conditions in shallow water models: An alternative implementation for FE codes, Int J Numer Methods Fluids 22(7) 603-618 (Apr 1996), 9A39
Finite element resolution of convection-diffusion equations with interior and boundary layers, Int J Numer Methods Fluids 22(7) 643-671 (Apr 1996), 9A40

Non-newtonian flow prediction by divergence-free FEs, Stability Appl Anal Continuous Media 3(3) 164-180 (Sep 1993), 9A41
Petrov-Galerkin formulation for incompressible flow at high Reynolds number, Int J Comput Fluid Dyn 5(3-4) 213-230 (1995), 9T42
Solution-adaptive approach for unsteady flow calculations on quadrilateral-triangular meshes, AIAA J 34(4) 851-853 (Apr 1996), 9T90
Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), J Comput Struct Mech Appl 12(4) 387-393 (Nov 1995), 9A533
Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, JSME Int J Ser C 39(1) 123-129 (Mar 1996), 9A1002
Adaptive unstructured tri-tree iterative solver for mixed FE formulation of the Stokes equations, Int J Numer Methods Fluids 22(9) 899-913 (May 1996), 10A14
Dusty shock flow with unstructured adaptive FEs and parcels, AIAA J 34(5) 1078-1080 (May 1996), 10T15
Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, Acta Mech Sinica 12(1) 15-23 (1996), 10A36
Coupled FEM simulation for the characterization of the fluid flow within a micromachined cantilever valve, J Micromech Microeng 6(1) 112-114 (Mar 1996), 10T454
Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, J Non-Newtonian Fluid Mech 63(1) 63-88 (Mar 1996), 10A1119
Transient effect of battery of injection wells on seawater intrusion, J Hydraul Eng 122(5) 266-271 (May 1996), 10A1415
Finite Element Procedures (Prentice-Hall, Englewood Cliffs NJ, 1996) 11R1
Finite element analysis of free-surface axisymmetric flows, Mec Appl 40(2-3) 333-348 (Jun 1995), 11A24
Nonlinear adapted tri-tree multigrid solver for FE formulations of the Navier-Stokes equations, Int J Numer Methods Fluids 22(11) 1041-1059 (Jun 1996), 11A25
Piecewise-linearized method for ordinary differential equations: Two-point boundary-value problems, Int J Numer Methods Fluids 22(11) 1089-1102 (Jun 1996), 11A26
A *posteriori* error estimation and adaptive FE computation of the Helmholtz equation in exterior domains, Finite Elements Anal Des 22(1) 15-24 (May 1996), 11A27
Entropy controlled adaptive FE simulations for compressible gas flow, J Comput Phys 126(1) 181-201 (Jun 1996), 11T922
Coupling mesh and flow in viscous fluid calculations on unstructured triangular FEs, Int J Comput Fluid Dyn 6(4) 275-290 (1996), 12A13
Viscoelastic simulation of PET stretch-blow molding process, J Non-Newtonian Fluid Mech 64(1) 19-42 (May 1996), 12A511
Effects due to initial perturbations on the modeling of vortex shedding from a bluff body in a laminar flow, Int J Comput Fluid Dyn 6(4) 337-344 (1996), 12A1034
Finite element methods for nonlinearly viscous fluids, Z Angew Math Mech 76(6) 307-320 (1996), 12A1040
Local solution adapted Tri-Tree multigrid generator and iterative equation solver for mixed FE formulation of the Navier-Stokes equations, Comput Methods Appl Mech Eng 131(1-2) 109-132 (Apr 1996), 12A1060
Effects of initial conditions on spatially evolving compressible shear layer simulations, Int J Comput Fluid Dyn 6(4) 307-319 (1996), 12T1075
Operator-splitting computation of turbulent flow in an axisymmetric 180° narrowing bend using several k-ε models and wall functions, Int J Numer Methods Fluids 22(12) 1189-1205 (Jun 1996), 12A1114

102J. Other applications

Combined effect of numerical integration and approximation of the boundary in the FEM for eigenvalue problems, Numer Math 71(2) 253-273 (Aug 1995), 1T27
Maximum angle condition in the FEM for monotone problems with applications in magnetostatics, Numer Math 71(3) 399-417 (Sep 1995), 1T28
Mixed FE approximation of a degenerate elliptic problem, Numer Math 71(2) 225-236 (Aug 1995), 1A29
Offset FE model and its applications in predicting sheet metal assembly variation, Int J Machine Tools Manuf 35(11) 1545-1557 (Nov 1995), 1A718
Finite element analysis of effective thermal conductivity of filled polymeric composites, J Composite Mat 29(13) 1725-1740 (1995), 2A17
FEM for the solution of state-constrained optimal control problems, J Guidance Control Dyn 18(5) 1036-1043 (Oct 1995), 3A23
Control variables for FE solution of missile trajectory optimization, J Guidance Control Dyn 18(5) 1208-1211 (Oct 1995), 3T345
Optimum design of transient heat conduction fields using BE inverse analysis, JSME Int J Ser A 38(4) 480-486 (Oct 1995), 3A852
Adaptive FEMs for parabolic problems - IV: Nonlinear problems, SIAM J Numer Anal 32(6) 1729-1749 (Dec 1995), 4A22
Adaptive FEMs for parabolic problems - V: Long-time integration, SIAM J Numer Anal 32(6) 1750-1763 (Dec 1995), 4A23
Error bound for the FE approximation of the Cahn-Hilliard equation with logarithmic free energy, Numer Math 72(1) 1-20 (Nov 1995), 4A24
Finite element model study of head impact based on hybrid III head acceleration: The effects of rotational and translational acceleration, J Biomech Eng 117(3) 319-328 (Aug 1995), 5A22
Contribution of surface irregularities to rolling contact plasticity in bearing steels, J Trib 117(4) 660-666 (Oct 1995), 5A439
Numerical analysis of a model for phase separation of a multi-component alloy, IMA J Numer Anal 16(1) 111-139 (1996), 6A22
Extraction of normal modes for highly coupled incomplete systems with general damping, Mech Syst Signal Processing 10(1) 93-106 (Jan 1996), 6A271
Analysis of elastoplastic seismologic response on soft clay foundation (Chinese), J Vib Eng 8(4) 317-323 (Dec 1995), 6A535
Transient fields of pulsed transducers in solids, Res Nondestructive Eval 7(1) 31-53 (1995), 6A708
Multidisciplinary design optimization of lumber transpedicular screws, Struct Optim 10(3-4) 222-230 (Dec 1995), 6A856
Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, J Biomech 29(1) 111-121 (Jan 1996), 6A1349
Number of grains required to homogenize elastic properties of polycrystalline ice, Mech Mat 22(1) 51-64 (Jan 1996), 7A4
Computer-aided design of acoustic horns for ultrasonic machining using FE analysis, J Mat Processing Tech 55(3-4) 254-260 (Dec 1995), 7A33
Thermal analysis of the hot torsion test taking into account radiation, Mech Mat 22(1) 1-9 (Jan 1996), 7A34
Use of infinite element, Comput Geotech 18(1) 65-70 (1996), 7A45
Finite element-optimization methods for the active control of radiated sound from a plate structure, Smart Mat Struct 4(4) 318-326 (Dec 1995), 7A351
Modeling of the ground by CEM and determination of its input parameters (Japanese), Proc JSCE 529(III-33) 11-18 (Dec 1995), 7A689
Finite Elements for Electrical Engineers, Third Edition (Cambridge UP, New York, 1996) 8N2
New approach to variable-topology shape design using a constraint on perimeter, Struct Optim 11(1-2) 1-12 (Feb 1996), 8A718
Finite element model comparison of ball and roller bullgears, Trib Trans 39(2) 286-295 (Apr 1996), 8A800
Numerical analysis of molten metal shape in cold crucibles by 3D FEM, Model Simulation Mat Sci Eng 4(1) 11-22 (Jan 1996), 8A1170
Quasi-static discrete element model of granular materials, Comput Geotech 18(2) 145-165 (1996), 8A1298
Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, J Biomech 29(5) 687-692 (May 1996), 8A1450
Accurate probe-response calculation in eddy current NDE by FEM, J Nondestruct Eval 14(4) 181-192 (Dec 1995), 9A43
Error bound for the FE approximation of a model for phase separation of a multi-component alloy, IMA J Numer Anal 16(2) 257-287 (1996), 9A44
Partially continuous composite grid generation for solution of partial differential equations (Chinese), J Comput Struct Mech Appl 13(1) 34-40 (Feb 1996), 9T45
Stress analysis of a microelectronic component during manufacturing process (Chinese), J Comput Struct Mech Appl 13(1) 9-16 (Feb 1996), 9T46
Poroelastic FE formulation including transport and swelling in soft tissue structures, J Biomech Eng 118(1) 1-9 (Feb 1996), 9A1443
Finite element analysis of a total knee replacement by using Gauss point contact constraints, J Eng Med 210(H1) 51-63 (1996), 9A1463
Multiphase medium model for localization and postlocalization simulation in geomaterials, Mech Cohesive-Frictional Mat 1(1) 95-114 (Jan 1996), 10A647
Three-dimensional FE analysis of deep excavations, J Geotech Eng 122(5) 337-345 (May 1996), 10A683
Analysis of the effect of crystallographic orientations on the fracture of nickel-base single crystals (Chinese), J Comput Struct Mech Appl 13(2) 176-179 (May 1996), 11A28
Dynamics of a static variable frictional law in FE analysis, Finite Elements Anal Des 22(1) 25-40 (May 1996), 11A29
Effect of consolidation on strain localization of soft clays, Comput Geotech 18(4) 311-339 (1996), 11A564
Investigating the technological scope for controlling the processes of magnetic-pulsed stamping of thin-walled parts with the use of technological concomitants, Russian Aeronaut 38(3) 106-109 (1995), 11A588
Rigid-plastic FEM analysis of 3D cutting mechanisms - 2nd Report: Simulation of plain milling process (Japanese), J Japan Soc Precision Eng 62(4) 526-530 (Apr 1996), 11A600
Modeling of interface problems by the FEM with considerable displacements, Comput Geotech 19(1) 23-45 (1996), 12A643
Interface shear behavior of landfill composite liner systems: A FE analysis, Geosynthetics Int 3(2) 247-275 (1996), 12A662
Study of the vibrational behavior of a healing tibia using FE modeling, J Biomech 29(8) 1003-1010 (Aug 1996), 12A1453

102L. Solution algorithms

Adaptive quadtree subdividing contour plotting algorithms, Eng Comput 12(6) 545-553 (Sep 1995), 1A30
Coupling of FEM and BEM for a nonlinear interface problem: The h-p version, Numer Methods PDE 11(5) 539-554 (Sep 1995), 1A31
High order gradient smoothing towards improved C^1 eigenvalues, Eng Comput 12(6) 513-528 (Sep 1995), 1A32
Methods with high accuracy for FE probability computing, J Comput Appl Math 59(2) 181-189 (May 1995), 1A33
Optimal packing of arbitrarily-shaped polygons using simulated annealing and polynomial-time cooling schedules, Comput Methods Appl Mech Eng 125(1-4) 53-70 (Sep 1995), 1A34
Petrov-Galerkin mixed FEM with exponential fitting, Numer Methods PDE 11(5) 501-524 (Sep 1995), 1A35
Recovery of the optimal mesh density function and near-optimal meshes with rectangular elements in the mapped domain, Numer Methods PDE 11(5) 479-499 (Sep 1995), 1A36
Dynamics of unsymmetric piecewise-linear and nonlinear systems using FEs in time, J Sound Vib 185(1) 155-170 (Aug 1995), 1A114
Closed-form derivation of an 8-node hexahedral element stiffness matrix by the hybrid stress method, Commun Numer Methods Eng 11(9) 775-787 (Sep 1995), 2A18
CLP (R) as a general FE model definition language, Int J Numer Methods Eng 38(18) 3055-3070 (Sep 1995), 2A19
Coarse-fine mesh preconditioners for the iterative solution of FE problems, Int J Numer Methods Eng 38(19) 3297-3313 (Oct 1995), 2A20
Distributed FE analysis on network of workstations: Algorithms, J Struct Eng 121(10) 1448-1455 (Oct 1995), 2A21
Distributed FE analysis on network on workstations: Implementation and applications, J Struct Eng 121(10) 1456-1462 (Oct 1995), 2A22
Mapping algorithm for domain decomposition in massively parallel FE analysis, Comput Syst Eng 6(2) 111-150 (Apr 1995), 2A23
Model reduction using dynamic and iterated IRS techniques, J Sound Vib 186(2) 311-323 (Sep 1995), 2A24
Model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals, Comput Struct 57(6) 1009-1028 (Dec 1995), 2A25
Operator weighing in a multigrid method for locally refined grids, J Eng Math 29(5) 473-496 (Sep 1995), 2A26
Problem decomposition for adaptive hp FEMs, Comput Syst Eng 6(2) 97-109 (Apr 1995), 2A27
Solution of nonlinear FE problems with not well-conditioned stiffness matrices, Comput Struct 57(5) 763-772 (Dec 1995), 2A28
Effective data parallel self-starting explicit methodology for computational structural dynamics on the connection machine CM-5, Int J Numer Methods Eng 38(19) 3211-3226 (Oct 1995), 2A126
Engineering Analysis with Maple/Matematica (Academic, San Diego, CA, 1995) 3R1
Barlow points and Gauss points and the aliasing and best fit paradigms, Comput Struct 58(2) 321-325 (Jan 1996), 3A24
Checkerboard patterns of P_2-P_1 discontinuous pressure elements, Commun Numer Methods Eng 11(10) 791-792 (Oct 1995), 3A25
Combining arc-length control and line searches in path following, Commun Numer Methods Eng 11(10) 793-803 (Oct 1995), 3A26
Displacement scheme with drilling dof for plane elements, Int J Numer Methods Eng 38(20) 3433-3452 (Oct 1995), 3A27
High-performance multilevel iterative aggregation solver for large FE structural analysis problems, Int J Numer Methods Eng 38(20) 3529-3544 (Oct 1995), 3A28
Interpolation between Sobolev spaces in Lipschitz domains with an application to multigrid theory, Math Comput 64(212) 1359-1365 (Oct 1995), 3A29
Local projection operator for quadrilateral FEs, Math Comput 64(212) 1421-1431 (Oct 1995), 3A30
Moving grid FEM using grid deformation, Numer Methods PDE 11(6) 603-615 (Nov 1995), 3A31
New semi-automatic method for node numbering in a FE mesh, Comput Struct 58(1) 183-187 (Jan 1996), 3A32
Plotting of fringe contours from FE results, Commun Numer Methods Eng 11(10) 839-847 (Oct 1995), 3A33
Theoretical formulations for adaptive FE computations, Commun Numer Methods Eng 11(10) 857-868 (Oct 1995), 3A34
Time-split FE scheme for the PC, Adv Eng Software 23(1) 15-26 (1995), 3A35
Analysis of time varying errors in quadratic FE approximation of hyperbolic problems, Int J Numer Methods Eng 38(23) 3933-3947 (Dec 1995), 4A25
Augmented Lagrangian quasi-Newton solver for constrained nonlinear FE applications, Int J Numer Methods Eng 38(21) 3571-3590 (Nov 1995), 4A26
Concurrent element level processing for nonlinear dynamic analysis on a massively parallel computer, Comput Syst Eng 6(3) 285-293 (Jun 1995), 4A27
Dirichlet problems in polyhedral domains II: Approximation by FEM and BEM, J Comput Appl Math 61(1) 13-27 (Jul 1995), 4A28
Elimination of spurious pressure and kinematic modes in biquadratic nine-node plane element, Int J Numer Methods Eng 38(23) 3911-3932 (Dec 1995), 4A29
Exploiting inherent parallelism in nonlinear FE analysis, Comput Struct 58(4) 801-807 (Feb 1996), 4A30
hp-version discontinuous Galerkin methods for hyperbolic conservation laws: A parallel adaptive strategy, Int J Numer Methods Eng 38(22) 3889-3908 (Nov 1995), 4A31
hp-version FEs for geometrically nonlinear problems, Commun Numer Methods Eng 11(11) 887-897 (Nov 1995), 4A32
Implementation of a modal reanalysis method in a FE analysis context, Comput Methods Appl Mech Eng 126(3-4) 239-249 (Oct 1995), 4A33
Iterative and direct solvers for interface problems with Lagrange multipliers, Comput Syst Eng 6(3) 261-273 (Jun 1995), 4A34
Multi-mesh, preconditioned conjugate gradient solver for eigenvalue problems in FE models, Comput Struct 58(3) 575-583 (Feb 1996), 4A35
New triangular and tetrahedral basis for high-order (hp) FEMs, Int J Numer Methods Eng 38(22) 3775-3802 (Nov 1995), 4A36
Notes on mesh optimal criteria in adaptive FE computations, Commun Numer Methods Eng 11(11) 911-915 (Nov 1995), 4A37
Overlapping domain decomposition preconditioner for an anisotropic h-adaptive FEM, Comput Methods Appl Mech Eng 127(1-4) 269-292 (Nov 1995), 4A38
Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, Comput Syst Eng 6(3) 251-259 (Jun 1995), 4A39
Upper bound limit analysis using discontinuous velocity fields, Comput Methods Appl Mech Eng 127(1-4) 293-314 (Nov 1995), 4A40
Recent advances in the P-version of the FEM for shells, Comput Syst Eng 6(3) 195-211 (Jun 1995), 4A44
Dispersion analysis and error estimation of Galerkin FEMs for the Helmholtz equation, Int J Numer Methods Eng 38(22) 3745-3774 (Nov 1995), 4A326
Finite element-mathematical programming method for elastoplastic contact problems with friction, Finite Elements Anal Des 20(4) 273-282 (Sep 1995), 4A459
Control of pressure oscillation in bilinear-displacement constant-pressure element, Comput Methods Appl Mech Eng 128(1-2) 137-152 (Dec 1995), 5A23
Finite element nodal ordering algorithms, Commun Numer Methods Eng 11(12) 995-1003 (Dec 1995), 5A24
Fourier analysis and dynamic optimization of the Petrov-Galerkin FEM, Int J Numer Methods Eng 38(24) 4123-4155 (Dec 1995), 5A25
Generic element matrices suitable for FE model updating, Mech Syst Signal Processing 9(6) 601-614 (Nov 1995), 5A26
Higher-order gradient post-processings for second-order elliptic problems, Comput Methods Appl Mech Eng 128(3-4) 361-381 (Dec 1995), 5A27
p-version of the mixed-FEM for nonlinear second-order elliptic problems, Numer Methods PDE 12(1) 1-11 (Jan 1996), 5A28
Partially sequential preconditioner for a parallel and efficent FE solution, Comput Syst Eng 6(6) 549-561 (Dec 1995), 5A29
Pointwise superconvergence of the streamline diffusion FEM, Numer Methods PDE 12(1) 123-145 (Jan 1996), 5A30
Posteriori estimation and adaptive control of the pollution error in the h-version of the FEM, Int J Numer Methods Eng 38(24) 4207-4235 (Dec 1995), 5A31

Prediction of high temperature metal matrix structural material failure using a massively parallel computer, Comput Syst Eng 6(6) 577-586 (Dec 1995), 5A483
Comparison of parallelization techniques for a FE quasigeostrophic model of regional ocean circulation, Int J Supercomput Appl High Perform Comput 9(4) 256-279 (ter 1995), 6A23
Coupled FE and element-free Galerkin method, Comput Mech 17(3) 186-195 (Dec 1995), 6A24
Finite element algorithms for contact problems, Arch Comput Methods Eng 2(4) 1-49 (1995), 6A25
Hybrid-Trefftz FE formulation for simulation of singular stress fields, Int J Numer Methods Eng 39(2) 281-308 (Jan 1996), 6A26
Large scale FE computations with GMRES-like methods on a CRAY Y-MP, Appl Numer Math 19(1-2) 51-62 (Nov 1995), 6A27
Self-adaptive FEM for solving 2D Euler equations on the unstructured meshes, Chinese J Aeronaut 8(1) 1-8 (Feb 1995), 6A28
Using backpropagation neural networks to correct the stiffness matrix in a FE model (Chinese), J Vib Eng 8(4) 389-395 (Dec 1995), 6A29
First Course in the Numerical Analysis of Differential Equations - Cambridge Texts in Applied Mathematics 15 (Cambridge UP, New York, 1996) 7N3
Energy conserving co-rotational procedure for nonlinear dynamics with FEs, Nonlinear Dyn 9(1-2) 37-52 (Feb 1996), 7A35
Explicit sparse unsymmetric FE solver, Commun Numer Methods Eng 12(1) 21-29 (Jan 1996), 7A36
FETM vector processing approach in ultimate dynamics, Int J Numer Methods Eng 39(3) 489-497 (Feb 1996), 7A37
Integration of polynomials over an arbitrary tetrahedron in Euclidean 3D space, Comput Struct 59(1) 55-65 (Apr 1996), 7A38
Trace averaging domain decomposition method with nonconforming FEs, J Comput Math 14(1) 40-53 (Jan 1996), 7A39
Solving 3D elastic problems in determining residual stresses in anisotropic materials, Mech Solids 30(4) 34-42 (1995), 7A510
Adaptive control of spatial-temporal discretization error in FE analysis of dynamic problems, Struct Eng and Mech 3(4) 391-410 (Jul 1995), 8A10
Inclastic vector FE analysis of RC shells, Struct Eng and Mech 4(2) 139-148 (Mar 1996), 8A17
Perspective on unstructured grid-flow solvers, AIAA J 34(3) 533-547 (Mar 1996), 8T28
Class of hybrid algebraic multilevel preconditioning - ..thods, Appl Numer Math 19(4) 389-399 (Jan 1996), 8A29
Combined FE-Riccati transfer matrix method for free vibration of structures, Struct Eng and Mech 3(3) 245-253 (May 1995), 8A30
Developments encompassing stress based FE formulations for materially nonlinear static and dynamic problems, Comput Struct 59(3) 583-592 (May 1996), 8A31
Eigenvalue extraction for large FE models using a new conjugate gradient algorithm, Commun Numer Methods Eng 12(2) 77-83 (Feb 1996), 8A32
Finite element algorithm for contact problems with friction, Struct Eng and Mech 3(3) 289-297 (May 1995), 8A33
Finite element mesh generation over analytical curved surfaces, Comput Struct 59(2) 301-309 (Apr 1996), 8A34
Finite element solutions with feedback network mechanism through direct minimization of energy functionals, Int J Numer Methods Eng 39(5) 867-883 (Mar 1996), 8A35
P-cycle analysis of multigrid method, Appl Math Comput 76(1) 41-48 (Apr 1996), 8A36
Return mapping algorithm for plane stress and degenerated shell plasticity, Struct Eng and Mech 3(2) 185-192 (Mar 1995), 8A37
Symbolic math applications to constructive solid geometry and FE analysis, Comput Struct 59(3) 561-582 (May 1996), 8A38
Using Pade approximants and curve-fitting to approximate eigenvalues and eigenvectors for large design changes, J Mech Des 118(1) 151-153 (Mar 1996), 8A39
Vector algorithm for layered reinforced concrete shell element stiffness matrix, Struct Eng and Mech 3(2) 173-183 (Mar 1995), 8A40
Shape optimization method based on implicit differentiation and node removal techniques, J Mech Des 118(1) 154-157 (Mar 1996), 8A724
Automatic FE mesh generation and condensation based on quadtree (Chinese), J Comput Struct Mech Appl 12(4) 409-416 (Nov 1995), 9A47
Automatic generation of unstructured quadrilateral mesh for complex domain (Chinese), J Comput Struct Mech Appl 12(2) 196-204 (May 1995), 9A48
Automatic mesh generating algorithm and its application for arbitrary multiply connected regions (Chinese), J Comput Struct Mech Appl 12(1) 80-85 (Feb 1995), 9A49
Comparative study on the h-convergence of 4-node and 8-node quadrilateral elements, Appl Math Mech 17(1) 9-14 (Jan 1996), 9A50
Computer-based proof of the existence of superconvergence points in the FEM: Superconvergence of the derivatives in FE solutions of Laplace's, Poisson's and the elasticity equations, Numer Methods PDE 12(3) 347-392 (May 1996), 9A51
Continuous space-time FEM for the wave equation, Math Comput 65(214) 491-506 (Apr 1996), 9A52
Development of FEs for 2D structural analysis using the integrated force method, Comput Struct 59(4) 691-706 (May 1996), 9A53
Direct method to derive the boundary conditions of the homogenization equation for symmetric cells, Commun Numer Methods Eng 12(3) 185-196 (Mar 1996), 9A54
Dispersion analysis of dynamic FE semidiscretizations of the 2D wave equation (Chinese), J Comput Struct Mech Appl 13(1) 46-54 (Feb 1996), 9T55
Domain decomposition algorithms for mixed methods for second-order elliptic problems, Math Comput 65(214) 467-490 (Apr 1996), 9A56
Implementation of the mesh generator for adaptive multigrid FEM (Chinese), J Comput Struct Mech Appl 12(1) 86-92 (Feb 1995), 9A57
Implementing FEMs on supercomputers, workstations and PCs: A bibliography (1985-1995), Eng Comput 13(1) 33-85 (1996), 9A58
Improved Guyan reduction and successive reduction procedure of dynamic model (Chinese), J Comput Struct Mech Appl 13(1) 90-94 (Feb 1996), 9A59
Interior penalty preconditioners for mixed FE approximations of elliptic problems, Math Comput 65(214) 447-466 (Apr 1996), 9A60
Iterative FE-BE algorithm, Comput Struct 59(5) 899-909 (Jun 1996), 9A61
Matrix profile and wavefront reduction based on the graph theory and wavefront minimization, Int J Numer Methods Eng 39(7) 1137-1159 (Apr 1996), 9A62
Necessary and sufficient condition for the unconditionally stability of one-step Newmark's predictor-corrector algorithm (Chinese), J Comput Struct Mech Appl 13(1) 95-98 (Feb 1996), 9A63
Numerical solution of inverse eigenvalue problem in dynamics model updating (Chinese), J Comput Struct Mech Appl 12(3) 276-280 (Aug 1995), 9T64
Numerical solution of spectral stochastic FE systems, Comput Methods Appl Mech Eng 129(3) 289-303 (Jan 1996), 9A65
Particle tracking technique for the Lagrangian-Eulerian FEM in multi-dimensions, Int J Numer Methods Eng 39(7) 1115-1136 (Apr 1996), 9A66
Precise computation for transient analysis (Chinese), J Comput Struct Mech Appl 12(1) 1-6 (Feb 1995), 9T67
Refined direct stiffness method and the nonconforming models (Chinese), J Comput Struct Mech Appl 12(2) 127-132 (May 1995), 9T68
Regularization techniques for dynamic model updating using input residual, Inverse Prob Eng 2(3) 171-200 (1996), 9A69
Releasing of dof of beam elements during dynamic analysis of structures: Also on a mistake in ADINA (Chinese), J Comput Struct Mech Appl 12(1) 122-126 (Feb 1995), 9T70
Study on quasi-pure probabilistic FEM (Chinese), J Comput Struct Mech Appl 12(4) 379-386 (Nov 1995), 9A71
Super FEM for analyzing plate type truss structure (Chinese), J Comput Struct Mech Appl 12(2) 249-252 (May 1995), 9A72
Automatic load stepping algorithm with error control, Int J Numer Methods Eng 39(10) 1737-1759 (May 1996), 10A16
Error estimates for FEMs for scalar conservation laws, SIAM J Numer Anal 33(2) 522-554 (Apr 1996), 10A17
High-performance PCG solvers for FEM structural analysis, Int J Numer Methods Eng 39(8) 1313-1340 (Apr 1996), 10A18
Multigrid waveform relaxation on spatial FE meshes: The continuous-time case, SIAM J Numer Anal 33(2) 456-474 (Apr 1996), 10A19
Nonlinear transient response and its sensitivity using FEs in time, Comput Mech 17(5) 306-317 (Mar 1996), 10A20
Parallel Newton multigrid method for high-order FEs and its application to numerical existence proofs for elliptic boundary value equations, Z Angew Math Mech 76(3) 175-180 (1996), 10A21
A priori estimates for mixed FE approximations of second-order hyperbolic equations with absorbing boundary conditions, SIAM J Numer Anal 33(2) 492-504 (Apr 1996), 10A22
Simple error estimator for size and distortion of 2D isoparametric FEs, Comput Struct 59(6) 989-999 (Jun 1996), 10A23
Superconvergence in FEMs and meshes that are locally symmetric with respect to a point, SIAM J Numer Anal 33(2) 505-521 (Apr 1996), 10A24
Superconvergent extraction of flux intensity factors and first derivatives from FE solutions, Comput Methods Appl Mech Eng 129(4) 349-370 (Feb 1996), 10A25
Three-dimensional adaptive mesh refinement using variable-node solid transition elements, Int J Numer Methods Eng 39(9) 1585-1606 (May 1996), 10A26
Prototype object-oriented FEM program: Class hierarchy and graphic user interface, Comp Assisted Mech Eng Sci 3(1) 65-74 (1996), 10A68
Nonlinear Finite Element Techniques Using an Object-Oriented Code (CIMNE, Barcelona, Sp, 1995) 11N8
Automatic quadrilateral mesh generation for planar regions (Chinese), J Comput Struct Mech Appl 13(2) 208-216 (May 1996), 11A30
Spectrally formulated FEM for vibration of a tubular structure, Struct Eng and Mech 4(3) 209-226 (May 1996), 11A40
Complementary FEM for finite deformation non-smooth mechanics, J Eng Math 30(3) 339-353 (May 1996), 12A14
Conditioning number and the selection criteria for p-version approximation functions, Comput Struct 60(4) 521-530 (Jun 1996), 12A15
Enforcement of essential boundary conditions in meshless approximations using FEs, Comput Methods Appl Mech Eng 131(1-2) 133-145 (Apr 1996), 12A16
Estimated error bounds for FE solutions of elliptic boundary value problems, Comput Methods Appl Mech Eng 130(1-2) 17-31 (Mar 1996), 12A17
Frequency decomposition multilevel method: A robust additive hierarchical basis preconditioner, Math Comput 65(215) 983-997 (Jul 1996), 12A18
Mathematical analysis of Zienkiewicz-Zhu's derivative patch recovery technique, Numer Methods PDE 12(4) 507-524 (Jul 1996), 12A19
Modified eigenstructure assignment technique for FE model updating, Shock Vib 3(4) 247-258 (1996), 12A20
Network-distributed FE analysis, Adv Eng Software 25(2-3) 267-280 (1996), 12A21
Nonlinear structural dynamic FE analysis using Ritz vector reduced basis method, Shock Vib 3(4) 259-268 (1996), 12A22
Note on entropy inequalities and error estimates for higher-order accurate finite volume schemes on irregular families of grids, Math Comput 65(215) 1155-1163 (Jul 1996), 12A23
Parallel FE analysis using Jacobi-conditioned conjugate gradient algorithm, Adv Eng Software 25(2-3) 309-319 (1996), 12A24
Post-buckling analysis of structures by three-parameter constrained solution techniques, Finite Elements Anal Des 22(2) 109-142 (Jun 1996), 12A25
A posteriori error estimates for elliptic problems in two and three space dimensions, SIAM J Numer Anal 33(3) 1188-1204 (Jun 1996), 12A26
Preconditioners for nonconforming discretizations, Math Comput 65(215) 923-941 (Jul 1996), 12A27
Prediction of error of FE results, Comput Struct 60(3) 471-480 (Aug 1996), 12A28
Quality local refinement of tetrahedral meshes based on 8-subtetrahedron subdivision, Math Comput 65(215) 1183-1200 (Jul 1996), 12A29
Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures, Numer Math 73(4) 449-472 (Jun 1996), 12A30
Stable FEs for problems with wild coefficients, SIAM J Numer Anal 33(3) 890-916 (Jun 1996), 12A31
Subdomain generation for non-convex parallel FE domains, Adv Eng Software 25(2-3) 253-266 (1996), 12A32
Two-level additive Schwarz preconditioners for nonconforming FEMs, Math Comput 65(215) 897-921 (Jul 1996), 12A33
Variational approximation method for a class of elliptic eigenvalue problems in composite structures, Math Comput 65(215) 999-1017 (Jul 1996), 12A34

102N. Element development

High precision thickness-stretch deformation element for the analysis of symmetrical laminates under extension, Mech Composite Mat Struct 2(3) 181-202 (Sep 1995), 1A37
Nonlinear Wilson's brick element for finite elastic deformations of 3D solids, Commun Numer Methods Eng 11(8) 655-664 (Aug 1995), 1A38
Numerical assessment of a new T-element approach, Comput Struct 57(3) 367-378 (Nov 1995), 1A39
p^1 - p^0 FEM for a model of polymer crystallization, Comput Methods Appl Mech Eng 125(1-4) 303-317 (Sep 1995), 1A40
Special bending crack tip FE, Int J Fracture 71(1) 57-69 (1995), 1A41
Three-dimensional six-noded FE containing a λ singularity, Int J Fracture 70(4) 347-356 (1995), 1A42
Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, Comput Methods Appl Mech Eng 125(1-4) 17-40 (Sep 1995), 1A518
Approach of the special FE for honeycore composites, Comput Struct 57(4) 681-690 (Nov 1995), 1A578
Shear-locking free robust isoparametric three-node triangular FE for moderately-thick and thin arbitrarily laminated plates, Comput Struct 57(4) 589-597 (Nov 1995), 1A633
Axisymmetrical quasi-Kirchhoff-type shell element for large plastic deformations, Arch Appl Mech 65(7) 465-477 (Sep 1995), 2A29
Formulation for the 4-node quadrilateral element, Int J Numer Methods Eng 38(18) 3007-3037 (Sep 1995), 2A30
Hexahedral mesh generation by modial surface subdivision - Part I: Solids with convex edges, Int J Numer Methods Eng 38(19) 3335-3359 (Oct 1995), 2A31
Incompressible constraint of the 4-node quadrilateral element, Int J Numer Methods Eng 38(18) 3039-3053 (Sep 1995), 2A32
Tangent modulus matrix for FE analysis of hyperelastic materials, Acta Mech 112(1-4) 187-201 (1995), 3A20
Geometrically nonlinear generalized hybrid element and refined element method of non-conforming modes, Acta Mech Sinica 11(2) 178-185 (1995), 3A36
New model of isoparametric FE for shell calculations, Mech Solids 30(1) 132-137 (1995), 3A37
Strain-based FE for the out-of-plane vibration of curved beams, Struct Eng Review 7(1) 9-13 (Feb 1995), 3A38
Tangent stiffness properties of FEs, Comput Struct 58(2) 351-365 (Jan 1996), 3A39
Natural frequencies of cylindrical shells using a shallow-shell FE, Struct Eng Review 7(1) 35-40 (Feb 1995), 3A135
Three-dimensional FE for analyzing thin plate-shell structures, Int J Numer Methods Eng 38(20) 3453-3482 (Oct 1995), 3A546
Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, Finite Elements Anal Des 20(4) 253-271 (Sep 1995), 4A41
Further results for enhanced strain methods with isoparametric elements, Comput Methods Appl Mech Eng 127(1-4) 127-143 (Nov 1995), 4A42
New 3D FE for adaptive h-refinement in 1-irregular meshes, Int J Numer Methods Eng 38(23) 3989-4008 (Dec 1995), 4A43
Recent advances in the P-version of the FEM for shells, Comput Syst Eng 6(3) 195-211 (Jun 1995), 4A44
Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, Commun Numer Methods Eng 11(11) 951-961 (Nov 1995), 4A45
Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, Finite Elements Anal Des 20(4) 283-298 (Sep 1995), 4A46
Curvature-based beam elements for the analysis of Timoshenko and shear-deformable curved beams, J Sound Vib 187(4) 569-584 (Nov 1995), 4A148
Axisymmetric elastodynamic infinite elements for multi-layered half-space, Int J Numer Methods Eng 38(22) 3723-3743 (Nov 1995), 4A250
Beam elements based on a higher order theory - I: Formulation and analysis of performance, Comput Struct 58(4) 775-789 (Feb 1996), 4A544
Beam elements based on a higher order theory - II: Boundary layer sensitivity and stress oscillations, Comput Struct 58(4) 791-796 (Feb 1996), 4A545
Assumed strain approach avoiding artificial thickness straining for a nonlinear 4-node shell element, Commun Numer Methods Eng 11(11) 899-909 (Nov 1995), 4A562
Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, Comput Methods Appl Mech Eng 127(1-4) 315-344 (Nov 1995), 4A564
State-of-the-art development of hybrid-mixed FEM, Finite Elements Anal Des 21(1-2) 5-20 (Oct 1995), 5A7
Effective four node degenerated shell element for geometrically nonlinear analysis, Thin-Walled Struct 24(3) 261-283 (1996), 5A32
Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, Finite Elements Anal Des 21(1-2) 21-44 (Oct 1995), 5A33
Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, Finite Elements Anal Des 21(1-2) 75-110 (Oct 1995), 5A34
Optimization approaches of hybrid stress elements, Finite Elements Anal Des 21(1-2) 111-128 (Oct 1995), 5A35
Simple FE for beams on elastic foundations, Strain 31(4) 135-142 (Nov 1995), 5A36
Stability of thin-walled pultruded structural members by the FEM, Thin-Walled Struct 24(1) 1-18 (1996), 5A37
T-elements: A FE approach with advantages of boundary solution methods, Adv Eng Software 24(1-3) 71-88 (1995), 5A38
Development of new spatially curved frame FE for crash analysis - Part I: Formulation and validation, Comput Mech 16(6) 426-436 (Nov 1995), 5A192
Efficient assumed strain element model with six dof per node for geometrically nonlinear shells, Int J Numer Methods Eng 38(24) 4101-4122 (Dec 1995), 5A519
Affine fractal interpolation functions and wavelet-based FEs, Comput Mech 17(3) 169-185 (Dec 1995), 6A30

Algebraic-geometry foundation for constructing smooth interpolants on curved sides element, J Comput Math 13(4) 343-350 (Oct 1995), 6A31
Enhanced lower-order element formulations for large strains, Comput Mech 17(1-2) 62-73 (Dec 1995), 6A32
Three field element via augmented Lagrangian for modeling bulk metal forming processes, Comput Mech 17(1-2) 2-9 (Dec 1995), 6A33
Economical assumed stress brick element and its implementation, Finite Elements Anal Des 21(3) 179-200 (Jan 1996), 7A40
Generation method of distributed data for FEM analysis, JSME Int J Ser A 39(1) 93-98 (Jan 1996), 7A41
Geometrically nonlinear and elastoplastic 3D shear flexible beam element of von-Mises-type hardening material, Int J Numer Methods Eng 39(3) 383-408 (Feb 1996), 7A42
Specialized composite plate element for problems of delamination buckling and growth, Composite Struct 34(1) 43-53 (1996), 7A43
Stress-based quadrilateral shear panel, Finite Elements Anal Des 21(3) 159-178 (Jan 1996), 7A44
Use of infinite element, Comput Geotech 18(1) 65-70 (1996), 7A45
Stability of laminated plates using finite strip method based on a higher-order plate theory, Composite Struct 34(1) 65-76 (1996), 7A663
Elasto-plastic nonconforming solid element with variable nodes, Struct Eng and Mech 3(4) 325-340 (Jul 1995), 8A14
Perspective on unstructured grid-flow solvers, AIAA J 34(3) 533-547 (Mar 1996), 8T28
Error estimate of h-convergence in quadrilateral elements, Appl Math Mech 16(12) 1123-1131 (Dec 1995), 8A41
Geometrically versatile finite volume formulation for plane elastostatic stress analysis, J Strain Anal Eng Des 31(2) 111-116 (Mar 1996), 8A42
Note on C^1-curved FE, Comput Methods Appl Mech Eng 129(1-2) 107-114 (Jan 1996), 8A43
Quasi-conformal trapezoidal element for orthotropic thin plate and thin shell (Chinese), J Dalian Univ Tech 35(1) 17-24 (Feb 1995), 8A44
Shear force predictions from RBF corrected QUAD4 elements, Commun Numer Methods Eng 12(2) 135-140 (Feb 1996), 8A45
Stochastic perturbation FEs, Comput Struct 59(3) 425-429 (May 1996), 8A46
Stress analyses of solids with rectangular holes by 3D special hybrid stress elements, Struct Eng and Mech 3(2) 193-199 (Mar 1995), 8A47
Transition membrane elements with drilling freedom for local mesh refinements, Struct Eng and Mech 3(1) 75-89 (Jan 1995), 8A48
Two-dimensional four-noded FE containing a singularity of order λ, Struct Eng and Mech 3(4) 383-390 (Jul 1995), 8A49
Unified and mixed formulation of the 8-node hexahedral elements by assumed strain method, Comput Methods Appl Mech Eng 129(1-2) 177-209 (Jan 1996), 8A50
Geometrically nonlinear beam element for dynamics simulation of multibody systems, Int J Numer Methods Eng 39(5) 763-786 (Mar 1996), 8A94
Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, Composite Struct 34(2) 129-143 (1996), 9A18
FEM for simply supported thin polygonic plates (Chinese), J Comput Struct Mech Appl 12(2) 244-248 (May 1995), 9A27
Consistent gradient formulation for a stable enhanced strain method for large deformations, Eng Comput 13(1) 103-123 (1996), 9A73
Formulation and experimental verification of a pneumatic FE, Int J Numer Methods Eng 39(7) 1097-1114 (Apr 1996), 9A74
Formulation for generalized conforming element of moderate thick shell with Ferguson's surface (Chinese), J Comput Struct Mech Appl 12(3) 374-378 (Aug 1995), 9T75
Formulation of hybrid shell element by using subregion variational principal (Chinese), J Comput Struct Mech Appl 12(4) 491-494 (Nov 1995), 9A76
Modeling progressive damage in composites: A shear deformable element for ABAQUS, Composite Struct 34(2) 119-128 (1996), 9A77
New method for graded mesh generation of quadrilateral FEs, Comput Struct 59(5) 823-829 (Jun 1996), 9A78
New model of wall element (Chinese), J Comput Struct Mech Appl 13(1) 17-24 (Feb 1996), 9T79
Rational FE (Chinese), J Comput Struct Mech Appl 13(1) 1-8 (Feb 1996), 9A80
Refined element method and membrane locking for geometric nonlinear analysis of thin plates (Chinese), J Comput Struct Mech Appl 12(1) 102-109 (Feb 1995), 9A81
Revised mapping functions for 3D Serendipity infinite elements, Commun Numer Methods Eng 12(3) 181-184 (Mar 1996), 9A82
Semi-analytical plate-beam super-element (Chinese), J Comput Struct Mech Appl 12(2) 170-177 (May 1995), 9A83
Three-dimensional transition isoparametric element and its stress smoothing method in nonlinear structural analysis (Chinese), J Comput Struct Mech Appl 12(1) 116-121 (Feb 1995), 9A84
Torsional spring-like beam element for the dynamic analysis of flexible multibody systems, Int J Numer Methods Eng 39(7) 1079-1096 (Apr 1996), 9A85
New high-order non-uniform Timoshenko beam FE on variable two-parameter foundations for vibration analysis, J Sound Vib 191(1) 91-106 (Mar 1996), 9A188
Analysis of combined shells of revolution using the method of spline function (Chinese), J Comput Struct Mech Appl 12(1) 76-79 (Feb 1995), 9T584
Efficient 4-node 24 dof thick shell FE with 5-point quadrature, Eng Comput 12(8) 723-747 (Nov 1995), 9A608
Explicit geometric stiffness matrix of quasi-conforming trapezoidal element and buckling analysis (Chinese), J Comput Struct Mech Appl 12(2) 160-169 (May 1995), 9A642
Two-dimensional mesh generation scheme for adaptive remeshing process in FEM, JSME Int J Ser A 39(2) 204-215 (Apr 1996), 10A7
Adaptive unstructured tri-tree iterative solver for mixed FE formulation of the Stokes equations, Int J Numer Methods Fluids 22(9) 899-913 (May 1996), 10A14
Cubic strain quadrilateral FE, Int J Numer Anal Methods Geomech 20(4) 295-302 (Apr 1996), 10A27
C^0 element for the free vibration analysis of laminated composite plates, J Sound Vib 191(5) 721-738 (Apr 1996), 10A28
Extrapolated Galerkin time FEs, Comput Mech 17(6) 398-405 (Apr 1996), 10A29
Formulation of the QS6 element for large elastic deformations, Int J Numer Methods Eng 39(9) 1437-1454 (May 1996), 10A30
High accuracy for mixed FEMs in Raviart-Thomas element, J Comput Math 14(2) 175-182 (Apr 1996), 10A31
Hybrid time-FEs with time-step-adaption by discontinuity control, Comput Mech 17(6) 392-397 (Apr 1996), 10A32
Mixed-hybrid FEM based on orthogonal functions, Int J Numer Methods Eng 39(8) 1295-1312 (Apr 1996), 10A33
Modified nonlinear member element allowing large loading and displacement increments, Commun Numer Methods Eng 12(4) 235-242 (Apr 1996), 10A34
Semianalytical singular element and its application to stress calculation and optimization, Int J Numer Methods Eng 39(10) 1659-1680 (May 1996), 10A35
Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, Acta Mech Sinica 12(1) 15-23 (1996), 10A36
Versatile variable-node flat-shell element, J Eng Mech 122(5) 432-441 (May 1996), 10A37
Analysis of effect of dead loads on natural frequencies of beams using FE techniques, J Struct Eng 122(5) 512-516 (May 1996), 10A142
Numerical reduced minimization theory for beam elements under nonuniform isoparametric mapping, Int J Numer Methods Eng 39(8) 1357-1382 (Apr 1996), 10A602
Element-embedded localization band based on regularized displacement discontinuity, J Eng Mech 122(5) 402-411 (May 1996), 10A759
Eigenvalue analysis of structures with flexible random connections, Struct Eng and Mech 4(3) 277-301 (May 1996), 11A8
Adjustable refined strain field in degenerated shell elements, Finite Elements Anal Des 22(1) 85-91 (May 1996), 11A31
Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, Finite Elements Anal Des 22(1) 69-83 (May 1996), 11A32
Exact stiffness matrix for a beam element with axial force and shear deformation, Finite Elements Anal Des 22(1) 1-13 (May 1996), 11A33
Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, Finite Elements Anal Des 21(4) 265-289 (Apr 1996), 11A34
High convergence order FEs with lumped mass matrix, Int J Numer Methods Eng 39(11) 1879-1888 (Jun 1996), 11A35
New incompatible four-noded axisymmetric elements with assumed strains, Comput Struct 60(2) 269-278 (Jul 1996), 11A36
New pipe element for modeling 3D large deformation problems, Finite Elements Anal Des 22(1) 59-68 (May 1996), 11A37
A new way for formulation of 4-node quadrilateral isoparametric incompatible elements (Chinese), J Comput Struct Mech Appl 13(2) 147-156 (May 1996), 11A38
Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, Finite Elements Anal Des 22(1) 41-57 (May 1996), 11A39
Spectrally formulated FEM for vibration of a tubular structure, Struct Eng and Mech 4(3) 209-226 (May 1996), 11A40
Triangular plate bending element considered transverse shear strain deformation (Chinese), J Comput Struct Mech Appl 13(2) 157-164 (May 1996), 11A41
Hexahedral elements using PN functions: Applications to beams, Comput Struct 60(2) 305-313 (Jul 1996), 11A505
Curved laminated orthotropic axisymmetric element based upon Flugge thin shell theory, Comput Struct 60(3) 487-503 (Aug 1996), 12A35
Family of elements with λ singularity, Adv Eng Software 26(1) 23-28 (1996), 12A36
Simulation of texture evolution with FEs over orientation space - I: Development, Comput Methods Appl Mech Eng 130(3-4) 227-246 (Apr 1996), 12A579
Simulation of texture evolution with FEs over orientation space - II: Application to planar crystals, Comput Methods Appl Mech Eng 130(3-4) 247-261 (Apr 1996), 12A580
Strain-and-displacement-based variational method applied to geometrically nonlinear shells, Int J Numer Methods Eng 39(13) 2231-2248 (Jul 1996), 12A605
High-order element for prebuckling and buckling analysis of laminated plane frames, Int J Numer Methods Eng 39(13) 2155-2168 (Jul 1996), 12A633

104. FINITE DIFFERENCE METHODS

104A. General theory

Second-order difference systems in unbounded domains: Existence conditions and construction of exact and approximate bounded solutions, Appl Math Comput 71(2-3) 271-287 (Sep 1995), 1A43
Class of explicit forward time-difference square conservative schemes, Acta Mech Sinica 11(1) 8-14 (1995), 3A40
Order of accuracy of QUICK and related convection-diffusion schemes, Appl Math Model 19(11) 640-653 (Nov 1995), 3A41
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles, and the origins of stabilized methods, Comput Methods Appl Mech Eng 127(1-4) 387-401 (Nov 1995), 4A47
Enslaved finite difference schemes for nonlinear dissipative PDEs, Numer Methods PDE 12(1) 13-40 (Jan 1996), 5A39
Global error estimation with adaptive explicit Runge-Kutta methods, IMA J Numer Anal 16(1) 47-63 (1996), 6A34
Improvement of explicit multistage schemes for central spatial discretization, AIAA J 34(1) 185-188 (Jan 1996), 6T35
Parallel iterative nonoverlapping domain decomposition procedure for elliptic problems, IMA J Numer Anal 16(1) 75-91 (1996), 6A36
Convergence of finite difference methods for a class of two-point boundary value problems with periodic boundary conditions, Appl Math Comput 75(2-3) 287-302 (Mar 1996), 7T46
Method increasing preciseness of finite differences system and its application, Appl Math Comput 75(2-3) 253-267 (Mar 1996), 7A47
Time Dependent Problems and Difference Methods - Pure and Applied Mechanics Series (Wiley, New York, 1995) 9R1
Limitations of traditional finite volume discretizations for unsteady computational fluid dynamics, AIAA J 34(5) 1074-1076 (May 1996), 10T38
Optimized compact finite difference schemes with maximum resolution, AIAA J 34(5) 887-893 (May 1996), 10A39
Effects of coordinate transformation and differencing schemes on matrix structure and convergence history, Appl Math Comput 77(1) 53-66 (Jun 1996), 11A42
Selected keynote papers presented at 14th IMACS World Congress Atlanta, NJ, July 1994, Appl Numer Math 20(3) 247-318 (Mar 1996), 12A37

104B. Solid mechanics applications

Hybrid effect and matrix yielding at fiber breaks in hybrid composite sheets, Mech Composite Mat Struct 2(4) 275-280 (Dec 1995), 6A403
Differential quadrature method for irregular domains and application to plate vibration, Int J Mech Sci 38(6) 589-606 (Jun 1996), 8A51
Numerical model for externally prestressed beams, Struct Eng and Mech 4(2) 177-190 (Mar 1996), 8A752
Dynamic thermal stresses in a finite circular plate with a penny-shaped crack generated by impulsive heating, JSME Int J Ser A 39(2) 172-178 (Apr 1996), 10A1328

104C. Fluid mechanics applications

Numerical Developments in CFD - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N4
Almost fourth order uniformly convergent difference scheme for a semilinear singularly perturbed reaction - diffusion problem, Numer Math 70(4) 487-500 (Jun 1995), 1T44
Finite-difference analysis of the stability of flow in a curved channel wide-gap problem, Arch Mech 47(1) 3-11 (1995), 1A45
Computation of steady and unsteady viscous flows using a simultaneously coupled inviscid-viscous interaction technique, J Fluids Struct 9(6) 639-657 (Aug 1995), 1A999
Solution Techniques for Large-Scale CFD Problems (Wiley, New York, 1995) 2N4
Numerical Simulations in Turbomachinery - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N45
Operator-splitting schemes for the stream function-vorticity formulation, Comput Fluids 24(7) 771-786 (Sep 1995), 2A33
Fluid dynamics of slender, thin, annular liquid jets, Int J Numer Methods Fluids 21(9) 735-761 (Nov 1995), 3A955
Detailed chemistry modeling of laminar diffusion flames on parallel computers, Int J Supercomput Appl High Perform Comput 9(3) 167-186 (1 1995), 3A1238
Computational Fluid Dynamics: The Basics with Applications (McGraw-Hill, New York, 1995) 4R22
Computational Fluid Dynamics in Acropropulsion, AD-Vol 49 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N33
Comparison of high-resolution schemes applied to flows containing strong shocks, AIAA J 33(11) 2087-2091 (Nov 1995), 4A48
Comparison of implicit schemes for the incompressible Navier-Stokes equations, AIAA J 33(11) 2066-2072 (Nov 1995), 4A49
Computer evaluation of high order numerical schemes to solve advective transport problems, Comput Fluids 24(8) 919-929 (Nov 1995), 4T50
Mixed spectral finite-difference (MSFD) model: Improved upper boundary conditions, Boundary-Layer Meteorol 75(4) 353-380 (Sep 1995), 4A51
New numerical schemes based on a criterion for constructing essentially stable and accurate numerical schemes for convection-dominated equations, Int J Numer Methods Fluids 21(11) 1041-1048 (Dec 1995), 4A52
Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, AIAA J 33(11) 2073-2079 (Nov 1995), 4A979
Preconditioning applied to variable and constant density flows, AIAA J 33(11) 2050-2057 (Nov 1995), 4A998
CFD for Design and Optimization, FED-Vol 232 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 5N4
Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany (Wiley, New York, 1995) 6N3
Constrained optimization of nacelle shapes in Euler flow using semianalytical sensitivity analysis, Struct Optim 10(3-4) 239-246 (Dec 1995), 6A964
Numerical Methods for Fluid Dynamics 5 (Oxford UP, New York, 1995) 7N25
Investigation of high-order upwinded differencing for vortex convection, AIAA J 34(2) 332-337 (Feb 1996), 7A48
Computational Fluid Dynamics: An Introduction, Second Edition (Springer-Verlag, New York, 1995) 8N1
Implicit time-stepping methods for the Navier-Stokes equations, AIAA J 34(3) 555-559 (Mar 1996), 8A923
Acceleration of iterative algorithms on highly-clustered grids, AIAA J 34(4) 691-699 (Apr 1996), 9A86
Application of a finite difference-finite volume algorithm to solve Maxwell's equations in the time domain, Int J Comput Fluid Dyn 5(1-2) 81-98 (1995), 9T87
Grid influence on upwind schemes for the Euler and Navier-Stokes equations, AIAA J 34(4) 717-727 (Apr 1996), 9A88
New finite-difference diffusion scheme, J Comput Phys 125(1) 16-25 (Apr 1996), 9A89
Solution-adaptive approach for unsteady flow calculations on quadrilateral-triangular meshes, AIAA J 34(4) 851-853 (Apr 1996), 9T90
Vorticity boundary condition and related issues for finite difference schemes, J Comput Phys 124(2) 368-382 (Mar 1996), 9T91
Adaptive prismatic-tetrahedral grid refinement and redistribution for viscous flows, AIAA J 34(4) 707-716 (Apr 1996), 9A1085

Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, Acta Mech 115(1-4) 161-177 (1996), 9A1107
External flow computations using global boundary conditions, AIAA J 34(4) 700-706 (Apr 1996), 9A1109
Navier-Stokes simulations of jet flows on a network of workstations, AIAA J 34(4) 744-749 (Apr 1996), 9A1111
Characteristic-like method for thermally-expandable flow on unstructured triangular grids, Int J Numer Methods Fluids 22(8) 731-754 (Apr 1996), 10A40
No-slip boundary condition in finite difference approximations, Int J Numer Methods Fluids 22(8) 713-729 (Apr 1996), 10A41
Solution-adaptive Cartesian cell approach for viscous and inviscid flows, AIAA J 34(5) 938-945 (May 1996), 10A49
Computation of sound radiating from engine inlets, AIAA J 34(5) 894-901 (May 1996), 10A375
Supersonic flow past pressure vent orifices on satellite launcher vehicles, J Brazilian Soc Mech Sci 18(1) 59-66 (Mar 1996), 10A1091
Computational Methods for Fluid Dynamics (Springer-Verlag, New York, 1996) 11R39
Piecewise-linearized method for ordinary differential equations: Two-point boundary-value problems, Int J Numer Methods Fluids 22(11) 1089-1102 (Jun 1996), 11A26
Comparison of numerical and analytical Jacobians, AIAA J 34(6) 1125-1129 (Jun 1996), 11A43
Multilevel schemes for solving unsteady equations, Int J Numer Methods Fluids 22(10) 937-959 (May 1996), 11A44
Data-parallel lower-upper relaxation method for the Navier-Stokes equations, AIAA J 34(7) 1371-1377 (Jul 1996), 12A1054
Implicit computation of 3D compressible Navier-Stokes equations using k-ε closure, AIAA J 34(7) 1321-1330 (Jul 1996), 12A1076
Performance of 3D compressible Navier-Stokes codes at low mach numbers, AIAA J 34(7) 1356-1362 (Jul 1996), 12A1078

104D. Other applications

Determinantal representations for the F transformation, Numer Math 71(3) 275-288 (Sep 1995), 1T46
External FEM for a second-order eigenvalue problem on a concave 2D-domain with Dirichlet boundary conditions, Appl Math Comput 71(2-3) 211-226 (Sep 1995), 1T47
Performance of a finite volume CEM code on multicomputers, Comput Syst Eng 6(3) 241-250 (Jun 1995), 4A53
Numerical analysis of nonstationary plane elastic wave diffraction on a rigid wedge, Mech Solids 30(4) 80-87 (1995), 7A245
Modeling of Bioactive Carbon Adsorbers: A hybrid weighted residual-finite difference numerical technique, Appl Math Comput 76(2-3) 99-131 (May 1996), 9A92
Workshop on the method of lines for time-dependent problems, May 31-June 4, 1995, University of Kentucky, Appl Numer Math 20(1-2) 1-244 (Feb 1996), 10A42
Application of an integrodifferential equation to the analysis of geotechnical problems, Struct Eng and Mech 4(3) 227-242 (May 1996), 11A572

104E. Algorithms and grid development

Optimal packing of arbitrarily-shaped polygons using simulated annealing and polynomial-time cooling schedules, Comput Methods Appl Mech Eng 125(1-4) 53-70 (Sep 1995), 1A34
General approach for using a stiff equation solver to integrate a system of partial differential equations, Numer Methods PDE 11(5) 467-478 (Sep 1995), 1A48
Solution domain decomposition with finite difference methods for partial differential equations, Numer Methods PDE 11(5) 453-466 (Sep 1995), 1A49
Block 6(5) and 7(6) explicit Runge-Kutta formulae, Appl Numer Math 17(3) 223-234 (Jul 1995), 2A34
Convergence of the sinc method for a fourth-order ordinary differential equation with an application, SIAM J Numer Anal 32(5) 1475-1503 (Oct 1995), 2A35
Effect of grid irregularity on truncation error for discretizations of Laplace's equation, Int J Numer Methods Eng 38(19) 3243-3257 (Oct 1995), 2A36
General class of two-step Runge-Kutta methods for ordinary differential equations, SIAM J Numer Anal 32(5) 1390-1427 (Oct 1995), 2A37
Iterative schemes for three-stage implicit Runge-Kutta methods, Appl Numer Math 17(4) 363-382 (Aug 1995), 2A38
NUMOL solution of time-dependent PDEs using DESI Runge-Kutta formulae, Appl Numer Math 17(3) 235-249 (Jul 1995), 2A39
Parallel general linear methods for stiff ordinary differential and differential algebraic equations, Appl Numer Math 17(3) 213-222 (Jul 1995), 2A40
Modified equation for dispersive difference schemes, Appl Numer Math 17(3) 299-309 (Jul 1995), 2A1174
Engineering Analysis with Maple/Matematica (Academic, San Diego, CA, 1995) 3R1
Class of explicit forward time-difference square conservative schemes, Acta Mech Sinica 11(1) 8-14 (1995), 3A40
Truncation error in grid generation: A case study, Numer Methods PDE 11(6) 561-571 (Nov 1995), 3A42
Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, J Brazilian Soc Mech Sci 16(4) 423-429 (1994), 3A43
Adaptive two-step methods for semidiscretized wave equations, Int J Numer Methods Eng 38(22) 3855-3887 (Nov 1995), 4A54
Advancing front mesh generation in 3D, Int J Numer Methods Eng 38(21) 3551-3569 (Nov 1995), 4A55
Algebraic grid front marching methods, Numer Heat Transfer B 28(3) 257-276 (Nov 1995), 4A56
Algebraic method using grid combination, Numer Heat Transfer B 28(3) 239-255 (Nov 1995), 4A57
Behavior of linear reconstruction techniques on unstructured meshes, AIAA J 33(11) 2038-2049 (Nov 1995), 4A58
Chebyshev methods of Panovsky and Richardson as Runge-Kutta-Nystrom methods, J Comput Appl Math 61(3) 245-261 (Aug 1995), 4A59
Conformal grid generation for high aspect ratio simply and doubly connected regions, Int J Numer Methods Eng 38(22) 3817-3830 (Nov 1995), 4A60
Error estimator and adaptive moving grids for finite volumes schemes, AIAA J 33(11) 2058-2065 (Nov 1995), 4A61
Extensions of tridiagonal and pentadiagonal matrix algorithms, Numer Heat Transfer B 28(3) 323-351 (Nov 1995), 4A62
Multigrid approach to overset grid communication, AIAA J 33(12) 2305-2308 (Dec 1995), 4A63
New recurrence for computing Runge-Kutta truncation error coefficients, SIAM J Numer Anal 32(6) 1989-2001 (Dec 1995), 4A64
Procedure for efficient generation of solution adapted unstructured grids, Comput Methods Appl Mech Eng 127(1-4) 259-268 (Nov 1995), 4A65
Rethinking to finite difference time-step integrations, Appl Math Mech 16(8) 705-711 (Aug 1995), 4A66
Stormer-Cowell: Straight, summed, and split: An overview, J Comput Appl Math 62(2) 129-154 (Sep 1995), 4A67
Numerical Methods for Engineers (Prentice Hall, Upper Saddle River, NJ, 1996) 5N5
Fast Delaunay triangulation in 3Ds, Comput Methods Appl Mech Eng 128(1-2) 153-167 (Dec 1995), 5A40
Importing mesh entities through IGES-PDES, Adv Eng Software 23(3) 151-161 (1995), 5A41
Conservative Finite-Difference Methods on General Grids (CRC Press, Boca Raton FL, 1996) 6N4
Three-dimensional unstructured viscous grids by the advancing-layers method, AIAA J 34(1) 43-49 (Jan 1996), 6A37
Efficient and accurate explicit integration algorithms with application to viscoplastic models, Int J Numer Methods Eng 39(2) 261-279 (Jan 1996), 6A406
First Course in the Numerical Analysis of Differential Equations - Cambridge Texts in Applied Mathematics 15 (Cambridge UP, New York, 1996) 7N3
High-order compact formulation for the 3D Poisson equation, Numer Methods PDE 12(2) 235-243 (Mar 1996), 7A49
Multigrid convergence for discretizations of singular perturbation problems with grid-aligned flow, SIAM J Numer Anal 33(1) 399-416 (Feb 1996), 7A50
Symplectic partitioned Runge-Kutta methods for constrained Hamiltonian systems, SIAM J Numer Anal 33(1) 368-387 (Feb 1996), 7A51
Algorithm for coarsening unconstructed meshes, Numer Math 73(1) 1-36 (Mar 1996), 8A52
Development of semi-coarsening techniques, Appl Numer Math 19(4) 433-465 (Jan 1996), 8A53
Double mapping of isoparametric mesh generation, Comput Struct 59(3) 471-477 (May 1996), 8A54
Invertibility of mappings arising in 2D grid generation problems, Numer Math 73(1) 37-51 (Mar 1996), 8A55
Grid influence on upwind schemes for the Euler and Navier-Stokes equations, AIAA J 34(4) 717-727 (Apr 1996), 9A88
Solution-adaptive approach for unsteady flow calculations on quadrilateral-triangular meshes, AIAA J 34(4) 851-853 (Apr 1996), 9T90
Automatic triangular mesh generation scheme for curved surfaces, Commun Numer Methods Eng 12(3) 197-208 (Mar 1996), 9A93
Convergence properties of the Fletcher-Reeves method, IMA J Numer Anal 16(2) 155-164 (1996), 9A94
Finite-difference schemes for scalar conservation laws with source terms, IMA J Numer Anal 16(2) 201-215 (1996), 9A95
Linearized θ-methods - I: Ordinary differential equations, Comput Methods Appl Mech Eng 129(3) 255-269 (Jan 1996), 9A96
Method of dynamic mesh adaptation, Int J Numer Methods Eng 39(6) 939-949 (Mar 1996), 9A97
A priori error estimates for numerical methods for scalar conservation laws - Part I: The general approach, Math Comput 65(214) 533-573 (Apr 1996), 9A98
Proof of the convergence of the segmentation approach used in analysis of 1D linear systems, J Acoust Soc Am 99(4) 1862-1867 (Apr 1996), 9A99
Automatic nodes generation in N-dimensional space, Commun Numer Methods Eng 12(4) 243-248 (Apr 1996), 10A43
Block finite difference scheme for second-order elliptic problems with discontinuous coefficients, SIAM J Numer Anal 33(2) 686-706 (Apr 1996), 10A44
Generalized 3D paving: Automated quadrilateral surface mesh generation algorithm, Int J Numer Methods Eng 39(9) 1475-1489 (May 1996), 10A45
Overlapping Schwarz methods on unstructured meshes using non-matching coarse grids, Numer Math 73(2) 149-167 (Apr 1996), 10A46
Parabolic equation method of grid generation for enclosed regions, Numer Heat Transfer B 29(3) 289-303 (May 1996), 10A47
Revisit to the modified multiple 1D adaptive grid method, Numer Heat Transfer B 29(3) 305-323 (May 1996), 10A48
Solution-adaptive Cartesian cell approach for viscous and inviscid flows, AIAA J 34(5) 938-945 (May 1996), 10A49
Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, Numer Heat Transfer B 29(3) 275-288 (May 1996), 10A1083
Algebraic multigrid solver for Navier-Stokes problems in the discrete second-order approximation, Int J Numer Methods Fluids 22(11) 1103-1123 (Jun 1996), 11A45
Automatic grid generation and flow solution for complex geometries, AIAA J 34(6) 1120-1124 (Jun 1996), 11A46
Combinations of the Ritz-Galerkin and finite difference methods, Int J Numer Methods Eng 39(11) 1839-1857 (Jun 1996), 11A47
Fractal behavior of triangular refined-derefined meshes, Commun Numer Methods Eng 12(5) 295-302 (May 1996), 11A48
One-dimensional stretching functions for C^n patched grids, and associated truncation errors in finite-difference calculations, Commun Numer Methods Eng 12(5) 303-316 (May 1996), 11A49
Runge-Kutta method for a two-layer system to shoot from two constraint sets to the same target set, Comput Struct 60(2) 291-296 (Jul 1996), 11A50
Analysis and computation of adaptive moving grids by deformation, Numer Methods PDE 12(4) 489-506 (Jul 1996), 12A38
Continuous Runge-Kutta(-Nystrom) methods with reduced phase-errors, J Comput Appl Math 69(1) 1-11 (Apr 1996), 12A39
Convergence of implicit finite difference methods applied to nonlinear mixed systems, SIAM J Numer Anal 33(3) 997-1013 (Jun 1996), 12A40
Efficient computations using upwind biased schemes, Int J Numer Methods Fluids 22(12) 1153-1167 (Jun 1996), 12A41
Family of fifth-order Runge-Kutta pairs, Math Comput 65(215) 1165-1181 (Jul 1996), 12A42
General family of explicit Runge-Kutta pairs of orders 6(5), SIAM J Numer Anal 33(3) 917-936 (Jun 1996), 12A43
High accuracy difference schemes for the system of two space nonlinear parabolic differential equations with mixed derivatives and variable coefficients, J Comput Appl Math 70(1) 15-32 (Jun 1996), 12A44
Mesh quality control for multiply-refined tetrahedral grids, Appl Numer Math 20(4) 337-348 (Apr 1996), 12A45
New time integration method for solving time dependent partial differential equations, Comput Methods Appl Mech Eng 130(1-2) 163-178 (Mar 1996), 12A46
Note on unconditional maximum norm contractivity of diagonally split Runge-Kutta methods, SIAM J Numer Anal 33(3) 1125-1134 (Jun 1996), 12A47
Optimization strategies in unstructured mesh generation, Int J Numer Methods Eng 39(12) 2055-2071 (Jun 1996), 12A48
Semi-implicit donor cell differencing and the hyperbolic conservation laws having source terms, Comput Methods Appl Mech Eng 131(1-2) 91-107 (Apr 1996), 12A49
Stability and error estimation for component adaptive grid methods, Appl Numer Math 20(4) 407-426 (Apr 1996), 12A50
Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, AIAA J 34(7) 1363-1370 (Jul 1996), 12A67

106. OTHER METHODS IN COMPUTATIONAL MECHANICS

106A. Boundary element methods: General

Boundary Element Technology X - Proc of 10th Int Conf on Boundary Technology (BETECH 95), Liege, Belgium, Sept 13-15, 1995 (Comput Mech, Billerica MA, 1995) 1N2
Coupling of FEM and BEM for a nonlinear interface problem: The h-p version, Numer Methods PDE 11(5) 539-554 (Sep 1995), 1A31
Completeness of the multiple reciprocity series approximation, Commun Numer Methods Eng 11(8) 665-674 (Aug 1995), 1A50
Higher-order BEM for 3D potential problems, Int J Numer Methods Fluids 21(4) 311-321 (Aug 1995), 1A51
Boundary Elements XVII (Comput Mech, Billerica MA, 1995) 2N1
Discrete methods for boundary integral equations on smooth closed curves, SIAM J Numer Anal 32(5) 1535-1564 (Oct 1995), 2A41
Integral representations for the axially symmetric Helmholtz Green's function, Appl Math Model 19(10) 583-589 (Oct 1995), 2A42
Note on the matrix analysis of dual reciprocity BEM, Appl Math letters 8(1) 87-90 (Jan 1995), 2A43
Orthogonal collocation in the nonconforming BEM, J Comput Phys 121(2) 373-382 (Oct 1995), 2T44
Singularity of the axially symmetric Helmholtz Green's function, with application to BEM, Appl Math Model 19(10) 590-600 (Oct 1995), 2A45
Error analysis in applying a BEM for 3D steady state potential problems, Comput Struct 58(2) 289-297 (Jan 1996), 3A44
Partitioning, boundary integral equations, and exact Green's functions, Int J Numer Methods Eng 38(20) 3483-3495 (Oct 1995), 3A45
Dirichlet problems in polyhedral domains II: Approximation by FEM and BEM, J Comput Appl Math 61(1) 13-27 (Jul 1995), 4A28
Spectral multipole method for efficient solution of large-scale BE models in elastostatics, Int J Numer Methods Eng 38(23) 4009-4034 (Dec 1995), 4A48
Adaptive mesh refinement of the BEM for potential problems by using mesh sensitivities as error indicators, Comput Mech 16(6) 379-395 (Nov 1995), 5A42
Boundary element method avoiding passages to the limit, Adv Eng Software 24(1-3) 97-105 (1995), 5A43
Boundary-type sensitivity analysis scheme based on indirect Trefftz formulation, Adv Eng Software 24(1-3) 89-96 (1995), 5A44
Corner analysis in the BEM by the continuation approach, Eng Anal Boundary Elements 16(1) 53-63 (1995), 5A45
Interrelated fundamental solutions for various heterogeneous potential, wave and advective-diffusive problems, Eng Anal Boundary Elements 16(1) 29-33 (1995), 5A46
Recent developments in the Trefftz method for FE and BE applications, Adv Eng Software 24(1-3) 107-115 (1995), 5A47
Smooth modeling of the normal vector by using C^0-continuous Lagrange elements in BEM, Commun Numer Methods Eng 11(12) 981-993 (Dec 1995), 5A48
Treatment of distributed sources in the stochastic BEM, Commun Numer Methods Eng 11(12) 971-980 (Dec 1995), 5A49
Treatment of singularities in time-dependent problems using the BEM, Eng Anal Boundary Elements 16(1) 65-70 (1995), 5A50
Trefftz direct method, Adv Eng Software 24(1-3) 65-69 (1995), 5A51
Trefftz method as an integral equation, Adv Eng Software 24(1-3) 57-63 (1995), 5A52
Trefftz method: An overview, Adv Eng Software 24(1-3) 3-12 (1995), 5A53
Trefftz-Herrera domain decomposition, Adv Eng Software 24(1-3) 43-56 (1995), 5A54
Trial functions applied in the generalized Trefftz method, Adv Eng Software 24(1-3) 147-155 (1995), 5A55
Convergence rates for the coupling of FEM and collocation BEM, IMA J Numer Anal 16(1) 93-110 (1996), 6A38
Dual reciprocity BEM for nonlinear problems, Boundary Elements Comm 6(6) 259-263 (Nov 1995), 6A39
Boundary Element Reference Database (Comput Mech, Billerica MA, 1995) 7N2
Boundary integral equations for inverse problems in the elasticity theory, J Elast 41(3) 151-160 (Dec 1995), 7A52
Choice of a derivative BE formulation using Hermite interpolation, Int J Numer Methods Eng 39(3) 451-468 (Feb 1996), 7A53

Formulation of the variational BEM with improved accuracy, J Appl Math Mech 59(4) 587-592 (1995), 7A54
Hypersingular integrals: How smooth must the density be, Int J Numer Methods Eng 39(4) 687-704 (Feb 1996), 7A55
Recent developments in the numerical evaluation of particular solutions in the BEM, Appl Math Comput 75(1) 91-101 (Mar 1996), 7A56
Taylor expansion algorithm for integration of 3D near-hypersingular integrals, Commun Numer Methods Eng 12(1) 51-62 (Jan 1996), 7A57
Boundary element analysis of cracks, Int J Solids Struct 33(13) 1853-1865 (May 1996), 8A56
Evaluation of nearly singular kernel integrals in BE analysis: Some improved formulations, Commun Numer Methods Eng 12(2) 85-93 (Feb 1996), 8A57
Existence and evaluation of the two free terms in the hypersingular boundary integral equation of potential theory, Eng Anal Boundary Elements 16(3) 253-260 (1995), 8A58
Extension of the adaptive BE scheme for the problem with mixed boundary conditions, Struct Eng and Mech 4(2) 191-202 (Mar 1996), 8A59
Singular function boundary integral method for the Laplace equation, Commun Numer Methods Eng 12(2) 127-134 (Feb 1996), 8A60
Weakly singular boundary integral equation for thin plate bending theory (Chinese), J Dalian Univ Tech 36(1) 13-19 (Jan 1996), 8A61
Boundary element method for 2D linear elastic fracture analysis, Int J Fracture 74(3) 219-251 (1995), 8A679
Boundary element method-based pattern search solution for a class of inverse elastostatic problems, Int J Solids Struct 33(15) 2123-2131 (Jun 1996), 9A100
Evaluations of Cauchy principal value integrals and weakly singular integrals in BEM and their applications, Int J Numer Methods Eng 39(6) 1017-1028 (Mar 1996), 9A101
h-Hierarchical functions for 2D and 3D BEM, Eng Anal Boundary Elements 16(4) 341-349 (1995), 9A102
Asymptotic estimation for the condition numbers in BEM, Numer Math 73(2) 209-233 (Apr 1996), 10A50
Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, Int J Solids Struct 33(16) 2309-2329 (Jul 1996), 10A51
Optimal p-version approximation of singularities on polyhedra in the BEM, SIAM J Numer Anal 33(2) 729-759 (Apr 1996), 10A52
Calculation of 3D BE drag components using wind tunnel data, Boundary Elements Comm 7(1) 9-18 (1996), 11A51
Domain decomposition on the dual reciprocity approach, Boundary Elements Comm 7(1) 1-5 (1996), 11T52
Modeling error in evaluation of the CVBEM matrix system, Eng Anal Boundary Elements 17(1) 85-90 (1996), 11A53
Nonlinear transformation algorithm for the integration of the singular kernels in 3D BEM for elastostatics, Eng Anal Boundary Elements 17(1) 27-32 (1996), 11A54
Regularization of hypersingular integrals in BEM formulations using various kinds of continuous elements, Eng Anal Boundary Elements 17(1) 5-18 (1996), 11A55
Three dimensional BE analysis of axisymmetric halfspace problems, Eng Anal Boundary Elements 17(1) 75-84 (1996), 11A56
Boundary element monotone iteration scheme for semilinear elliptic partial differential equations, Math Comput 65(215) 943-982 (Jul 1996), 12A51
Coupling of boundary integral and mixed FEMs, J Comput Appl Math 69(1) 113-124 (Apr 1996), 12A52
Generalized Gaussian quadrature rules for systems of arbitrary functions, SIAM J Numer Anal 33(3) 971-996 (Jun 1996), 12A53
Hypersingular residuals: A new approach for error estimation in the BEM, Int J Numer Methods Eng 39(12) 2005-2029 (Jun 1996), 12A54
Inequality constraints in rectangular FEs-BEs, Comput Struct 60(3) 415-431 (Aug 1996), 12A55
Non-equivalence of the conventional boundary integral formulation and its elimination for 2D mixed potential problems, Comput Struct 60(6) 1029-1035 (Jul 1996), 12A56

106B. Boundary element methods: Applications

Fastening and joining: FE and BE analysis - A bibliography (1992-1994), Finite Elements Anal Des 20(3) 205-215 (Jul 1995), 1A18
Boundary element method for elliptic differential equations with a small parameter, Appl Math Comput 71(2-3) 151-163 (Sep 1995), 1A52
Calibration of the localized DCPD method for crack shape measurement using the BEM, Fatigue Fracture Eng Mat Struct 18(7-8) 875-884 (Aug 1995), 1A53
Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, Eng Trans 43(1-2) 45-70 (1995), 1A54
Frequency response of elastic bodies of revolution by the BEM, J Acoust Soc Am 98(3) 1558-1564 (Sep 1995), 1A168
New BE-mathematical programming method for contact problems with friction, Commun Numer Methods Eng 11(8) 683-690 (Aug 1995), 1A466
Traction-based completed adjoint double layer BEM in elasticity, Comput Mech 16(5) 360-367 (Aug 1995), 1A474
Stochastic BEM in statistical analysis of moderately thick plates, Acta Mech Solida Sinica 8(2) 163-170 (1995), 1A625
Elastoplastic crack analysis by boundary integral method and surface spectrum measurement, Int J Fracture 71(2) 165-176 (1995), 1A795
Anisotropic analysis of cracks in composite laminates using the Dual BEM, Composite Struct 31(3) 229-233 (31 1995), 1A805
Current Topics in Computational Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N2
Boundary Element Applications in Fluid Mechanics (Comput Mech, Billerica MA, 1995) 2R30
Boundary element analysis of crack intersection, initiation and growth at pin loaded holes, Fatigue Fracture Eng Mat Struct 18(9) 949-957 (Sep 1995), 2A46
Boundary element study on the optical method of caustic for measuring fast crack propagation toughness K_{ID}, Int J Fracture 71(4) 379-390 (1995), 2A47
Calculation of boundary stresses with the Somigliana stress identity, Int J Numer Methods Eng 38(19) 3275-3295 (Oct 1995), 2A48
Single-region time domain BEM for dynamic crack problems, Int J Solids Struct 32(24) 3555-3571 (Dec 1995), 2A49
Stokes flow past two circular cylinders using a BEM, Comput Fluids 24(7) 787-798 (Sep 1995), 2A50
Boundary-domain element method for free vibration of moderately thick laminated orthotropic shallow shells, Int J Solids Struct 33(1) 11-18 (Jan 1996), 2A109
Contact problems with nonconforming discretizations using BEM, Comput Struct 57(5) 829-839 (Dec 1995), 2A372
Dynamic inelastic structural analysis by BEMs, Arch Comput Methods Eng 2(3) 55-87 (1995), 2A718
Three-dimensional thermoelastic analysis of the straight section of a PWR hot leg containing a hot spot using BEM, Nucl Eng Des 158(1) 47-60 (Sep 1995), 2A1270
Contact mechanics analysis of frictional slip of inclusions embedded in dissimilar matrices using the BEM, J Strain Anal Eng Des 30(4) 245-255 (Oct 1995), 3A46
Green element simulations of the transient nonlinear unsaturated flow equation, Appl Math Model 19(11) 675-684 (Nov 1995), 3A47
Quasilinear BEM for nonlinear Poisson type problems, Eng Anal Boundary Elements 15(3) 277-282 (1995), 3A48
Steady state solutions of buoyancy-assisted internal flows using a BE-False Implicit Transient Scheme, Boundary Elements Comm 6(5) 208-217 (Sep 1995), 3A49
Stress analysis of the precision forging die for a bevel gear and its optimal design using the BEM, J Mat Processing Tech 53(3-4) 511-520 (Sep 1995), 3A50
Using the BEM to investigate the wave propagation in a viscoelastic-acoustic system, Boundary Elements Comm 6(5) 197-203 (Sep 1995), 3A51
Three-dimensional contact mechanics analysis of crack problems using the BEM, Int J Fracture 72(1) 39-67 (1995), 3A438
BEM for stress reduction by optimal auxiliary holes, Eng Anal Boundary Elements 15(3) 219-223 (1995), 3A531
Automatic mesh generation for computing symmetric local stresses by 2D-viscoplastic BEM with modified transfinite method, Eng Fracture Mech 52(6) 1139-1150 (Dec 1995), 4A69
Singular integral equation-BEM to solve the Saint-Venant bending problem of cracked cylinders, Int J Fracture 72(2) 159-169 (1995), 4A70
New weight function approach using indirect boundary integral method, Eng Fracture Mech 52(6) 1087-1105 (Dec 1995), 4A709
Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, J Eng Indust 117(3) 372-377 (Aug 1995), 5A17
Application of the BEM to the magneto-hydrodynamic duct flow, Z Angew Math Phys 46(6) 971-981 (Nov 1995), 5A56
Applications of the Trefftz method in linear elliptic boundary-value problems, Adv Eng Software 24(1-3) 133-145 (1995), 5A57
Development of the Trefftzian methodology for engineering design analysis, Adv Eng Software 24(1-3) 117-131 (1995), 5A58
Wave response analysis of a flexible floating structure by a simple beam model (Japanese), Proc JSCE 525(I-33) 309-317 (Oct 1995), 5A150
New higher-order BEMs for wave diffraction-radiation, Appl Ocean Res 17(2) 71-77 (1995), 5A210
Wave motions during soil-structure interaction by time domain BEM (Japanese), Proc JSCE 525(I-33) 237-245 (Oct 1995), 5A551
Prediction of cavitation in journal bearings using a BEM, J Trib 117(3) 411-421 (Jul 1995), 5A1107
Steady thermal stress analysis by improved multiple-reciprocity BEM, J Thermal Stresses 18(6) 603-620 (Dec 1995), 5A1199
Acoustic diagnostic analysis using BEs, Boundary Elements Comm 6(6) 247-251 (Nov 1995), 6A40
Implementation of the BEM in the dynamics of flexible bodies, Int J Numer Methods Eng 39(2) 321-354 (Jan 1996), 6A41
Steady and transient coupled analysis of 3D viscous flow and magnetic field by BEM, Boundary Elements Comm 6(6) 252-258 (31v 1995), 6A42
Modified Kirchhoff theory for BE analysis of thin plates resting on two-parameter foundation, Eng Struct 18(2) 102-114 (Feb 1996), 6A487
Method for crack kinetics calculations in a medium with volume gas evolution, Mech Solids 30(3) 134-143 (1995), 6A682
Boundary Element Reference Database (Comput Mech, Billerica MA, 1995) 7N2
Generation method of distributed data for FEM analysis, JSME Int J Ser A 39(1) 93-98 (Jan 1996), 7A41
Three-dimensional BE formulation of anisotropic elasticity with gravity, Appl Math Model 20(2) 114-120 (Feb 1996), 7A58
Time-marching solution of 3D dynamic problems in crack theory, Mech Solids 30(4) 115-120 (1995), 7A855
Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, Struct Eng and Mech 4(1) 61-72 (Jan 1996), 8A62
Boundary integral transformation of body-force volume integral in BEM for 2D anisotropic elasticity, Mech Res Commun 23(2) 227-232 (Apr 1996), 8A63
Hybrid BEM in elastodynamics, Mech Res Commun 23(2) 205-211 (Apr 1996), 8T64
Solving the free boundary problem in continuous casting by using BEM, Appl Math Mech 16(12) 1201-1208 (Dec 1995), 8A65
Free vibration analysis of cantilever cylindrical tanks, Struct Eng and Mech 3(1) 25-34 (Jan 1995), 8A123
Harmonic wave response of two 3D rigid surface foundations, Soil Dyn Earthquake Eng 15(2) 95-110 (1996), 8A140
Boundary element method for transient viscoelastic flow: The MPTT model, Trib Trans 39(2) 314-321 (Apr 1996), 8A413
Evaluation of energy release rate for a planar crack in heterogeneous media, Int J Fracture 74(2) 163-179 (1995), 8A680
Calculation of all drag components for 3D bodies in wind tunnel flows: A BE-wake approach, Appl Sci Res 55(2) 119-139 (Sep 1995), 8A1055
Two-dimensional thermal stress analysis under unsteady state by the improved BEM, J Thermal Stresses 19(2) 107-121 (Mar 1996), 8A1240
Three-dimensional response analysis of long lined tunnels in half-space, Soil Dyn Earthquake Eng 15(2) 111-118 (1996), 8A1345
Iterative FE-BE algorithm, Comput Struct 59(5) 899-909 (Jun 1996), 9A61
Acoustic modeling of surface sources - Part I: Piston model, discretizing error, axisymmetrical problem, Arch Acoust 20(4) 311-326 (1995), 9A103
Application of the BEM to the study of 2D subsonic lifting flow past smooth profiles, Arch Mech 48(1) 111-128 (1996), 9A104
Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, Appl Math Mech 17(1) 85-89 (Jan 1996), 9A105
Boundary element method in evaporative laser cutting, Appl Math Model 20(4) 274-282 (Apr 1996), 9A106
Calculation of boundary stresses in BEs, Eng Anal Boundary Elements 16(4) 317-322 (1995), 9A107
Dual boundary integral equations for exterior problems, Eng Anal Boundary Elements 16(4) 333-340 (1995), 9A108
Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), J Comput Struct Mech Appl 13(1) 67-73 (Feb 1996), 9A109
Two-dimensional elastodynamic transient analysis by QL time-domain BEM formulation, Int J Numer Methods Eng 39(6) 951-985 (Mar 1996), 9A277
Massively-parallel computation for acoustical-scattering problems using BEMs, J Sound Vib 191(1) 145-165 (Mar 1996), 9A364
New weight function approach using indirect boundary integral method, Eng Fracture Mech 53(6) 957-974 (Apr 1996), 9A801
Introduction to Boundary Element Methods (CRC Press, Boca Raton FL, 1995) 10R1
Boundary Element Technology XI - Int Conf on Boundary Element Technology, BETECH 96 (Comput Mech, Billerica MA, 1996) 10N2
Application of the BEM to the problem of body penetration into fluid, Mech Solids 30(6) 88-92 (1995), 10A53
Asymptotic and a posteriori error estimates for BE solutions of hypersingular integral equations, SIAM J Numer Anal 33(2) 666-685 (Apr 1996), 10A54
Statistics of eigensolutions for systems with random shape parameters using BEM, Comput Struct 59(6) 1193-1197 (Jun 1996), 10A55
Non-singular boundary integral equation for acoustic problems, J Sound Vib 192(1) 263-279 (Apr 1996), 10A380
Stress rate integral equations of elastoplasticity, Acta Mech Sinica 12(1) 55-64 (1996), 10A552
Cauchy singular integral equation method for transient antiplane dynamic problems, Eng Fracture Mech 54(2) 177-187 (May 1996), 10A819
Application of the dual BEM to the analysis of cracked stiffened panels, Eng Fracture Mech 54(1) 91-105 (May 1996), 10A826
Thermal residual stresses in bonded dissimilar materials and their singularities, JSME Int J Ser A 39(2) 197-203 (Apr 1996), 10A1340
Axisymmetric thermal stress analysis in the steady state with heat generation in the region by BEM, J Thermal Stresses 19(3) 273-286 (May 1996), 10A1343
Behavior of composites on bounded domain, Boundary Elements Comm 7(1) 6-8 (1996), 11A57
Degenerate scales and BE analysis of 2D potential and elasticity problems, Comput Struct 60(1) 155-158 (Jul 1996), 11A58
Dual BEM for transient thermoelastic crack problems, Int J Solids Struct 33(19) 2695-2718 (Aug 1996), 11A59
New boundary-type scheme for sensitivity analysis using Trefftz formulation, Finite Elements Anal Des 21(4) 301-317 (Apr 1996), 11A60
Simple comparison between two 3D time domain elastodynamic BE formulations, Eng Anal Boundary Elements 17(1) 33-44 (1996), 11A61
Analysis of transient heat conduction with phase changes by a boundary integral equation method, Nucl Eng Des 162(2-3) 317-324 (Apr 1996), 11A1190
Method of simultaneous analysis of waves propagating in multilayered media by BEM, JSME Int J Ser C 39(2) 195-202 (Jun 1996), 12A222
Study of the transient sound radiated by impacted solid bodies based on the BEM, JSME Int J Ser C 39(2) 218-224 (Jun 1996), 12A276
Boundary element method based on the 3D elastostatic fundamental solution for the orthotropic multilayered space: Application to composite materials, Comput Mech 18(1) 24-45 (May 1996), 12A577
BIE fracture mechanics analysis: 25 years of developments, Comput Mech 18(1) 1-11 (May 1996), 12A772
Boundary element analysis of orthotropic delamination specimens with interface cracks, Eng Fracture Mech 54(5) 601-615 (Jul 1996), 12A773

106C. Collocation, least-square, Galerkin, and related methods

Taylor weak statement FEMs for computational fluid dynamics, Int J Numer Methods Fluids 21(4) 273-294 (Aug 1995), 1A26
Adaptive boundary collocation method for linear PDEs, Numer Methods PDE 11(5) 555-560 (Sep 1995), 1A55
Corrected collocation methods for periodic pseudodifferential equations, Numer Math 70(4) 397-425 (Jun 1995), 1A56
Evolution-Galerkin methods and their supraconvergence, Numer Math 71(3) 331-355 (Sep 1995), 1A57
High order direct method for solving Poisson's equation in a disc, Numer Math 70(4) 501-506 (Jun 1995), 1T58
High-order Taylor-Galerkin methods for linear hyperbolic systems, J Comput Phys 120(2) 206-230 (Sep 1995), 1A59
Least squares regression vs geometric mean regression for ecotoxicology studies, Appl Math Comput 72(1) 21-32 (Sep 1995), 1A60
Solving Least Squares Problems (SIAM, Phila, PA, 1995) 2N5
A posteriori error estimates for the wavelet Galerkin method, Appl Math letters 8(5) 1-6 (Sep 1995), 2A51
Biplicit spectral-collocation-type ansatz for the numerical integration of partial differential equations with the transversal method of lines, Numer Methods PDE 11(6) 625-635 (Nov 1995), 3A52
Differential quadrature method in computational mechanics: A review, Appl Mech Rev 49(1) 1-28 (Jan 1996), 3A53
Gibbs phenomenon V: Recovering exponential accuracy from collocation point values of a piece-

wise analytic function, Numer Math 71(4) 511-526 (Oct 1995), 3A54
Complex mapped matrix methods in hydrodynamic stability problems, J Comput Phys 122(1) 13-24 (Nov 1995), 3A965
Extrapolation of a discrete collocation-type method of Hammerstein equations, J Comput Appl Math 61(1) 73-86 (Jul 1995), 4A71
Fully conforming spectral collocation scheme for second- and fourth-order problems, Comput Methods Appl Mech Eng 126(3-4) 305-314 (Oct 1995), 4A72
Note on the accuracy of spectral method applied to nonlinear conservation laws, J Sci Comput 10(3) 357-369 (Sep 1995), 4A73
Preconditioning cubic spline collocation discretizations of elliptic equations, Numer Math 72(1) 39-72 (Nov 1995), 4T74
Spectral multidomain approximation of elliptic problems with mixed conditions on the interfaces, J Sci Comput 10(3) 289-304 (Sep 1995), 4A75
Approximate optimal points for polynomial interpolation of real functions in an interval and in a triangle, Comput Methods Appl Mech Eng 128(3-4) 405-417 (Dec 1995), 5A59
Fully spectral method for hyperbolic equations, Int J Numer Methods Eng 39(1) 67-79 (Jan 1996), 5A60
Geometrical tolerances: Improved linear approximation of least squares evaluation of circularity by minimum variance, Int J Machine Tools Manuf 36(3) 355-366 (Mar 1996), 5A61
Spine-flux method for simulating free surface flows, J Comput Phys 122(2) 367-379 (Dec 1995), 5T62
Vibration and damping analysis of multilayered conical shells, Composite Struct 33(3) 143-157 (1995), 5A139
Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, Thin-Walled Struct 24(2) 113-122 (1996), 5A532
Parameter sensitivity in nonlinear thermal problems, Comp Assisted Mech Eng Sci 2(4) 253-270 (1995), 6A16
Approximate approximations using Gaussian kernels, IMA J Numer Anal 16(1) 13-29 (1996), 6A43
Validation of a Navier-Stokes solution algorithm with experimental values in a supersonic wake, Int J Numer Methods Fluids 22(2) 137-148 (Jan 1996), 6A922
Least-squares mixed FEM for non-selfadjoint elliptic problems - Part I: Error estimates, Numer Math 72(4) 501-522 (Feb 1996), 7A8
Alternating direction collocation for irregular regions, Numer Methods PDE 12(2) 147-159 (Mar 1996), 7A59
Convergence estimates for the wavelet Galerkin method, SIAM J Numer Anal 33(1) 149-161 (Feb 1996), 7A60
Method for solving the parameter identification problem for ordinary differential equations of the second order, Appl Math Comput 74(2-3) 273-291 (Feb 1996), 7A61
Pressure correction method for unstructured meshes with arbitrary control volumes, Int J Numer Methods Fluids 22(4) 265-281 (Feb 1996), 7A62
Solution of 2D problems of statics of shallow shells on the basis of spline-approximations (Russian), Prikl Mekh (Appl Mech) 31(4) 10-16 (1995), 7A622
Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, Mech Solids 30(4) 139-145 (1995), 7A667
Collocation method for convective flow induced by directional solidification in a cylinder, Int J Numer Methods Fluids 22(5) 393-409 (Mar 1996), 8A66
Simplified dynamic analysis of slender tapered thin-walled towers with additional mass and rigidity, Struct Eng and Mech 3(1) 61-74 (Jan 1995), 8A109
Analysis of natural frequency and buckling on orthogonal and ortho-laid space truss by Spline-Galerkin method (Chinese), J Comput Struct Mech Appl 12(1) 60-68 (Feb 1995), 9T110
Wavelets: Theory and Applications - ICASE-LaRC Series in Computational Science and Engineering (Oxford UP, New York, 1996) 10N5
Multi-resolution analysis on the interval with natural spline projection and uniform two-scale relation, J Sci Comput 10(4) 391-407 (Dec 1995), 10A56
Nonlinear Galerkin method: The two-level Fourier-collocation case, J Sci Comput 10(4) 371-389 (Dec 1995), 10A57
Collocation and upwinding for thermal flow in pipe-lines: The linearized case, Int J Numer Methods Fluids 22(9) 835-849 (May 1996), 10A1152
Conditioning of numerical boundary measures in wavelet Galerkin methods, Commun Numer Methods Eng 12(5) 281-294 (May 1996), 11A62
Numerical study of the flow over ellipsoidal objects inside a cylindrical tube, Int J Numer Methods Fluids 22(11) 1075-1087 (Jun 1996), 11A897
Functional Analysis: Applications in Mechanics and Inverse Problems - Solid Mechanics and Its Applications Series, Vol 41 (Kluwer, Netherlands, 1996) 12R1
Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, Composite Struct 34(4) 387-395 (1996), 12A57
Adaptive multiresolution collocation methods for initial boundary value problems of nonlinear PDEs, SIAM J Numer Anal 33(3) 937-970 (Jun 1996), 12A58
Application of Hankel matrices in polynomial regression, Appl Math Comput 77(2-3) 205-211 (Jul 1996), 12A59
Choice of the initial value of a quadratic spline in positive interpolation, J Comput Appl Math 69(1) 13-25 (Apr 1996), 12A60
Comparative study for the estimation of parameters in nonlinear models, Appl Math Comput 77(2-3) 179-183 (Jul 1996), 12A61
High performance solution of partial differential equations discretized using a Chebyshev spectral collocation method, J Comput Appl Math 69(1) 71-80 (Apr 1996), 12A62
Multi-level bases for elliptic boundary value problems, J Comput Appl Math 71(1) 95-113 (Jul 1996), 12T63
Role of p-version Q(p) and Q'(p) 2D approximation functions in smooth and singular problems, Comput Struct 60(3) 441-470 (Aug 1996), 12A64
Energy considerations in the boundary collocation method applied in fracture, Eng Fracture Mech 54(5) 639-652 (Jul 1996), 12A775

106D. Transform methods (incl FFT)

Spectral method for polar coordinates, J Comput Phys 120(2) 365-374 (Sep 1995), 1A61
A posteriori error estimates for the wavelet Galerkin method, Appl Math letters 8(5) 1-6 (Sep 1995), 2A51
Use of carrier frequency shifting for the elimination of phase discontinuities in Fourier transform profilometry, Opt Lasers Eng 23(4) 245-257 (1995), 2A52
Spectral methods for nonlinear parabolic systems, J Comput Phys 122(1) 1-12 (Nov 1995), 3A55
Wavelet analysis of dispersive stress waves, JSME Int J Ser A 38(4) 416-424 (Oct 1995), 3A56
Zoom FFT spectrum by Fourier transform (Chinese), J Vib Eng 8(2) 162-166 (Jun 1995), 3A57
New generalization of the Cagniard-De Hoop method for absorbing media, Mech Solids 30(1) 77-84 (1995), 3A184
High performance spectral simulation of turbulent flows in massively parallel machines with distributed memory, Int J Supercomput Appl High Perform Comput 9(3) 187-204 (1 1995), 3A974
Scale dependent constitutive relations: Information from wavelet analysis and application to localization problems, Eur J Mech A 14(6) 873-892 (1995), 4A3
Mixed spectral finite-difference (MSFD) model: Improved upper boundary conditions, Boundary-Layer Meteorol 75(4) 353-380 (Sep 1995), 4A51
Numerical inversion of two classes of Kontorovich-Lebedev transform by direct quadrature, J Comput Appl Math 61(1) 43-72 (Jul 1995), 4A76
Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), J Vib Eng 8(3) 258-263 (Sep 1995), 4A323
Transforms and Applications Handbook (CRC Press, Boca Raton FL, 1995) 5N7
Biorthogonal decompositions of the radon transform, Numer Math 72(2) 263-283 (Dec 1995), 5T63
Unstructured spectral element methods for simulation of turbulent flows, J Comput Phys 122(2) 191-217 (Dec 1995), 5A975
Anisotropic plate under influence of distributed and point heat sources, Mech Solids 30(2) 118-123 (1995), 5A1186
Maxentropic reconstruction of Fourier and Laplace transforms, Appl Math Comput 73(2-3) 181-189 (Dec 1995), 6A44
Multiplicative complexity and algorithm of the generalized discrete Fourier transform (GFT), J Comput Math 13(4) 351-356 (Oct 1995), 6A45
Sparse-mode spectral method for the simulation of turbulent flows, J Comput Phys 123(1) 32-44 (Jan 1996), 6A46
Normally incident transverse wave scattering by a plane crack, Mech Solids 30(3) 77-91 (1995), 6A186
High-frequency vertical vibrations of a rail under the action of a mobile harmonic force, Mech Solids 30(3) 177-185 (1995), 6T470
Wavelet transform in vibration analysis for mechanical fault diagnosis, Shock Vib 3(1) 17-26 (1996), 6A698
Finite element analysis of dynamic behavior of viscoelastic materials using FFT, JSME Int J Ser A 39(1) 71-77 (Jan 1996), 7A19
Convection treatment using spectral elements of different order, Int J Numer Methods Fluids 22(4) 241-264 (Feb 1996), 7A63
Gibb's phenomenon - III: Recovering exponential accuracy in a sub-interval from a spectral partial sum of a piecewise analytic function, SIAM J Numer Anal 33(1) 280-290 (Feb 1996), 7A64
Moving spectral element approach to the dynamically loaded journal bearing problem, J Comput Phys 123(2) 476-494 (Feb 1996), 7A65
Multiprecision arithmetic using fast Hartley transforms, Appl Math Comput 75(2-3) 239-251 (Mar 1996), 7A66
Dynamic response of rectangular plates of composite materials subjected to impact loads, Composite Struct 34(1) 55-63 (1996), 7A155
Finite element resolution of convection-diffusion equations with interior and boundary layers, Int J Numer Methods Fluids 22(7) 643-671 (Apr 1996), 9A40
Error estimates and extrapolation for the numerical solution of Mellin convolution equations, IMA J Numer Anal 16(2) 217-255 (1996), 9A111
Pseudospectral Chebychev method for the 2D wave equation with domain stretching and absorbing boundary conditions, J Comput Phys 124(2) 324-336 (Mar 1996), 9A112
Hybrid spectral-finite volume method for viscous flows, Int J Comput Fluid Dyn 5(1-2) 119-136 (1995), 9A1067
Approximate projection scheme for incompressible flow using spectral elements, Int J Numer Methods Fluids 22(7) 673-688 (Apr 1996), 9A1086
Numeric analysis of sodar echo signals, Arch Account 20(4) 303-309 (1995), 9A1368
FFT Workshop (Tech Edu Videos, WA, 1996) 10N3
Efficient approach to constructing discontinuous solutions of mechanical problems for bodies of finite size, Mech Solids 30(6) 55-61 (1995), 10A517
Integral Transforms and Their Applications (CRC Press, Boca Raton FL, 1995) 11N5
Corrections for frequency, amplitude and phase in a fast Fourier transform of a harmonic signal, Mech Syst Signal Processing 10(2) 211-221 (Mar 1996), 11A63
Nonlocal artificial boundary conditions for the incompressible viscous flow in a channel using spectral techniques, J Comput Phys 126(1) 52-63 (Jun 1996), 11T880

106E. Hybrid and other methods (inverse scattering transforms, Pade etc)

Advances in differential and integral inequalities, Nonlinear Anal 25(9-10) 873-1078 (Nov 1995), 1A62
Green's Functions in Applied Mechanics - Topics in Eng Vol 27 (Comput Mech, Billerica MA, 1995) 2R20
DASPK: A new high order and adaptive time-intergration technique with applications to mantle convection with strongly temperature- and pressure-dependent rheology, Geophys Astrophys Fluid Dyn 80(1-2) 57-74 (Sep 1995), 3A1287
Rational trigonometric approximations using Fourier series partial sums, J Sci Comput 10(3) 325-356 (Sep 1995), 4A77
Recent developments of the GRP method, JSME Int J Ser B 38(4) 497-517 (Nov 1995), 4A78
Proceedings of the 1994 Symposium - Part I and Part II: Hypervelocity impact, October 17-19, 1994, Int J Impact Eng 17(1-6) 465-947 (1995), 5A64
Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), Proc JSCE 525(I-33) 341-344 (Oct 1995), 5A1315
Automatic construction of 3D models in multiple scale analysis, Comput Mech 17(3) 196-207 (Dec 1995), 6A47
Stability analysis on Beck's procedure for inverse heat conduction problems, J Comput Phys 123(1) 65-73 (Jan 1996), 6T48
New hybrid-streamline-upwind FEM in dual space: Fundamental theory and discrete Del operator, JSME Int J Ser B 39(1) 28-35 (Feb 1996), 7T31
Approximate inverse geophysical scattering on a small body, SIAM J Appl Math 56(1) 192-218 (Feb 1996), 7T67
Iterative implementation of an implicit-explicit hybrid scheme for hydrodynamics, J Comput Phys 124(1) 217-229 (Mar 1996), 8A67
Layer stripping for the Helmholtz equation, SIAM J Appl Math 56(3) 736-754 (Jun 1996), 11A64
Inverse problem in thermal imaging, SIAM J Appl Math 56(3) 715-735 (Jun 1996), 11A1091
Integral geometry in hyperbolic spaces and electrical impedance tomography, SIAM J Appl Math 56(3) 755-764 (Jun 1996), 11A1202
Hybrid iterative methods for nonsymmetric systems of linear equations, Numer Math 73(4) 489-506 (Jun 1996), 12A65
Spectrum analysis by autoregressive methods: Performance on application to stationary signals, JSME Int J Ser C 39(2) 179-187 (Jun 1996), 12A66
Note on the equivalence of Backlund transformations and the inverse scattering method for a class of nonlinear differential equations, Int J Non-Linear Mech 31(4) 451-457 (Jul 1996), 12A230

106F. Stochastic analysis

Adaptive stochastic optimization using multiprocessors, Appl Math Comput 72(2-3) 225-257 (Oct 1995), 1A63
Rail on linear stochastic supports, Eng Trans 43(1-2) 279-296 (1995), 1T64
Assessment of form errors and data processing by some optimization techniques (Japanese), J Japan Soc Precision Eng 61(8) 1064-1068 (Aug 1995), 2T53
Evaluation of uncertainty in form measurement (Japanese), J Japan Soc Precision Eng 61(8) 1054-1058 (Aug 1995), 2T54
Fuzzy logic applied to numerical modeling of engineering problems, Comput Mech Adv 2(3) 213-281 (Jun 1995), 2A55
Computational Stochastic Mechanics - Proc of 2nd Int Conf on Comput Stochastic Mech, Athens, June 1994 (Balkema, Rotterdam, Netherlands, 1995) 3N5
Distribution of rainflow range for Gaussian random processes with bimodal PSD: JSME Int J Ser A 38(4) 440-445 (Oct 1995), 3A58
Engineering application of experimental uncertainty analysis, AIAA J 33(10) 1888-1896 (Oct 1995), 3A59
Fast cell-to-cell mapping (path integration) for nonlinear white noise and Poisson driven systems, Struct Safety 17(3) 151-165 (Oct 1995), 3A60
High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), J Vib Eng 8(2) 127-135 (Jun 1995), 3A61
Simulation of multi-dimensional Gaussian stochastic fields by spectral representation, Appl Mech Rev 49(1) 29-53 (Jan 1996), 3A62
Low-energy components of vibroacoustic signal as the basis for diagnosis of defect formation, Machine Dyn Prob 12 7-126 (1995), 3A846
Analysis of the stochastic velocity field by proper orthogonal decomposition, J Theor Appl Mech 33(4) 793-807 (1995), 3A973
Optimality in the estimation of a MA system from a long AR model for simulation studies, Soil Dyn Earthquake Eng 14(6) 445-452 (1995), 4A1337
Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), Proc JSCE 525(I-33) 117-126 (Oct 1995), 5A106
Critical earthquake input power spectral density function models for engineering structures, Earthquake Eng Struct Dyn 24(12) 1549-1566 (Dec 1995), 5A1331
Boundary condition sensitivity analysis of the stochastic flow equation, Adv Water Resources 19(2) 109-120 (1996), 5A1335
Analysis of nonstationary dynamic processes in the presence of mixed information on random perturbations, J Machinery Manuf Reliab 3 6-12 (1995), 6A49
Contribution to the SFE-based reliability assessment of nonlinear structures under dynamic loading, Probab Eng Mech 10(4) 265-273 (1995), 6A50
Energy density equations and power flow in structures, J Sound Vib 188(2) 269-282 (Nov 1995), 6A51
Envelope energy model for high frequency dynamic structures, J Sound Vib 188(2) 283-295 (Nov 1995), 6A52
New conversion method from response spectrum to PSD functions, J Eng Mech 121(12) 1391-1392 (Dec 1995), 6A53
Random vibrations of discrete systems under kinematic wave excitations, J Theor Appl Mech 34(1) 159-177 (1996), 6A116
Stochastic neural network and its application to multi-maneuvering target tracking, Chinese J Acronaut 8(1) 54-62 (Feb 1995), 6A297
Stochastic analysis of fatigue lives of reinforced concrete subjected to cyclic bending moment (Japanese), Proc JSCE 526(II) 1-10 (Nov 1995), 6A754
Combined integral and FE analysis of broad-band random vibration in structural members, Probab Eng Mech 10(4) 241-250 (1995), 6A761
Stepwise regression is an alternative to splines for fitting noisy data, J Biomech 29(2) 235-238 (Feb 1996), 6A1361
Adaptive Bayes estimators for parameters of the Gompertz survival model, Appl Math Comput 75(2-3) 167-177 (Mar 1996), 7A68
Comparison of some simulation algorithms on basis of distribution, J Eng Mech 122(2) 172-176 (Feb 1996), 7A69
Identification of conditional stochastic Gaussian field, J Eng Mech 122(2) 101-108 (Feb 1996), 7A70
Detecting low-dimensional chaos in time series of finite length generated from discrete parameter processes, Physica D 90(1-2) 31-39 (Jan 1996), 7A107
Optimal trajectory planning for robots under the consideration of stochastic parameters and disturbances, J Intelligent & Robotic Syst 15(1) 19-23 (Jan 1996), 7A455
Stochastic parallel-brittle networks for modeling materials, J Eng Mech 122(2) 130-137 (Feb 1996), 7A551

Statistical implications of methods of finding characteristic strengths, J Struct Eng 122(2) 202-209 (Feb 1996), 7A919
Archetypal analysis of saptio-temporal dynamics, Physica D 90(3) 209-224 (Feb 1996), 7A1133
Analysis of nonstationary signals using time-frequency methods, J Sound Vib 190(3) 419-447 (Feb 1996), 8A68
Kinetics of microdomain formation in 2D assemblies, Acta Phys Polonica B B27(3) 783-793 (Mar 1996), 9A12
Simple mathematical tool for statistical description of dynamical systems under random actions - I, Acta Phys Polonica B B27(3) 693-735 (Mar 1996), 9A14
Transport in ratchet-type systems, Acta Phys Polonica B B27(3) 663-675 (Mar 1996), 9A16
Accuracy analysis of statistical linearization methods applied to nonlinear dynamical systems, Reports Math Phys 36(1) 1-20 (Aug 1995), 9T113
Efficiency and accuracy in simulation of random fields, Probab Eng Mech 11(2) 73-86 (1996), 9A114
Faster simulation methods for the nonstationary random vibrations of nonlinear MDOF systems, Probab Eng Mech 11(2) 63-72 (1996), 9A115
Integration of non-Gaussian fields, Probab Eng Mech 11(1) 15-23 (1996), 9A116
Introduction to computational models of damage dynamics under stochastic actions, Probab Eng Mech 11(2) 107-112 (1996), 9A117
Noise-induced transitions in a bistable process driven by non-Markovian noise: Stationary states, Acta Phys Polonica B B27(3) 767-782 (Mar 1996), 9A118
Partial summations of stationary sequences of non-Gaussian random variables, Probab Eng Mech 11(1) 25-30 (1996), 9A119
Temporal representation of white noise, Appl Math Comp Sci 5(4) 703-715 (1995), 9A120
Efficient iterative ARMA approximation of multivariate random processes for structural dynamics applications, Earthquake Eng Struct Dyn 25(5) 497-507 (May 1996), 10A58
Foias statistical solution for stochastic Navier-Stokes equation, Nonlinear Anal 27(1) 97-114 (Jul 1996), 10T59
Non-Gaussian elliptically-contoured ARMA models, J Eng Mech 122(4) 334-341 (Apr 1996), 10A60
Stochastic BEM: Random excitations and time-domain analysis, J Eng Mech 122(4) 342-349 (Apr 1996), 10A61
Van Kampen expansion for linked Duffing-linear oscillators excited by colored noise, J Sound Vib 191(3) 397-414 (Apr 1996), 10A62
Finite-element method for analysis of a nonlinear system under stochastic parametric and external excitation, Int J Non-Linear Mech 31(2) 193-201 (Mar 1996), 10A128
Stochastic FE analysis of soil layers with random interface, J Eng Mech 122(4) 361-369 (Apr 1996), 10A662
Calculation of Weibull life expectancy parameters from fracture data using the maximum likelihood criterion and a Nelder-Mead simplex minimization algorithm, Comp Assisted Mech Eng Sci 3(1) 37-43 (1996), 10A755
Eulerian versus Lagrangian variational principles in stochastic mechanics, Meccanica 31(2) 195-206 (Apr 1996), 11A65
Response of an SDOF system to periodic external and parametric excitations with random phase modulations, J Sound Vib 192(3) 621-627 (May 1996), 11A768
Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, AIAA J 34(7) 1363-1370 (Jul 1996), 12A67
Spectral stochastic FE analysis of periodic random thermal creep stress in concrete, Eng Struct 18(9) 669-674 (Sep 1996), 12A508
Bimodal bound of system reliability for random composite structures, AIAA J 34(7) 1494-1500 (Jul 1996), 12A838
Comparison of maximum entropy direct simulation Monte Carlo code with flowfield measurements, AIAA J 34(7) 1378-1385 (Jul 1996), 12A1081

106G. Asymptotic and perturbation methods

Asymptotic solution of acoustic nonlinear wave equation with friction, Arch Acoust 20(3) 271-276 (1995), 1A344
Length-scale effects in wave propagation and stability of elastic composites under finite deformations, J Theor Appl Mech 33(4) 749-769 (1995), 3A63
Micro-dynamics of composite materials, J Theor Appl Mech 33(4) 731-748 (1995), 3A64
Investigation of engine-excited vertical automobile vibrations, Mech Solids 30(1) 40-49 (1995), 3A81
Expansion of a cavity in a rubber block under stress: Application of the asymptotic expansion method to the analysis of the stability and bifurcation conditions, Int J Fracture 72(1) 1-20 (1995), 3A426
Extension of the applicability area of exact solutions in problems on antisymmetric bending of isotropic and orthotropic circular plates of variable thickness, Mech Solids 30(1) 138-142 (1995), 3A533
Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), J Vib Eng 8(3) 212-218 (Sep 1995), 4A108
Generalized probabilistic perturbation method for static analysis, Appl Math Mech 16(8) 759-764 (Aug 1995), 4A801
Approximate solution of a time-dependent differential equation, Meccanica 30(6) 665-671 (Dec 1995), 5A65
Analysis of a system with complex excitation of parametric oscillations, Mech Solids 30(2) 33-40 (1995), 5A87
Third-order resonance in a nearly Hamiltonian system with 1-dof, Mech Solids 30(2) 41-48 (1995), 5A93
Asymptotic analysis of the surface settlement shape for transversely inhomogeneous half-space at a circular punch indentation, Mech Solids 30(2) 53-58 (1995), 5A404
Stability problem for nonhomogeneous structures: Averaged description, Mech Solids 30(2) 124-131 (1995), 5A521
Periodic motions of autonomous systems in the vicinity of a stable integral manifold, Mech Solids 30(3) 21-29 (1995), 6A88
Singular trajectories of nonlinear oscillatory systems, Mech Solids 30(3) 30-40 (1995), 6A107
Elastic wave scattering in porous media, Mech Solids 30(3) 71-76 (1995), 6A185
Effect of a discrete load on a three-layer strip with viscoelastic middle layer, Mech Solids 30(3) 122-129 (1995), 6A435
Problem in the theory of pre-stressed plates, Mech Solids 30(3) 161-168 (1995), 6A474
Representation of the linear plate and shell theory equations with allowance for transverse shear deformation, Mech Solids 30(3) 150-160 (1995), 6T475
Validation of a Navier-Stokes solution algorithm with experimental values in a supersonic wake, Int J Numer Methods Fluids 22(2) 137-148 (Jan 1996), 6A922
Perturbation approach for low frequency noise in junction field effect transistors, Appl Math Comput 74(2-3) 161-190 (Feb 1996), 7A71
Sinc methods for domain decomposition, Appl Math Comput 75(1) 13-41 (Mar 1996), 7A72
Direct perturbation method of nonlinear vibration frequency about elastic circular cone flat shell of axial symmetry (Chinese), J Comput Struct Mech Appl 13(1) 106-111 (Feb 1996), 9A121
Steady-state oscillations of composite spheres, Appl Mech Eng 1(1) 117-143 (1995), 9A178
Trapping of waves by horizontal cylinders in a channel containing two-layer fluid, Arch Mech 47(6) 1183-1187 (1995), 9A294
Interpolation perturbation method for solving the boundary layer type problems, Appl Math Mech 17(1) 91-98 (Jan 1996), 9A1142
Perturbation analysis of singular subspaces and deflating subspaces, Numer Math 73(2) 235-263 (Apr 1996), 10T63
Elliptic perturbation method for certain strongly nonlinear oscillators, J Sound Vib 192(2) 453-464 (May 1996), 10A102
Multiple Scale and Singular Perturbation Methods - Applied Mathematical Sciences, Vol 114 (Springer-Verlag, New York, 1996) 11R2
Further improvement of generalized quasilinearization method, Nonlinear Anal 27(2) 223-227 (Jul 1996), 11T66
Methods of generalized quasilinearization for periodic boundary value problems, Nonlinear Anal 27(2) 143-151 (Jul 1996), 11T67
Periodic solutions for a class of second order systems with a small forcing term, Nonlinear Anal 27(3) 261-270 (Aug 1996), 12T68
Singularly perturbed problem related to surfactant spreading on thin films, Nonlinear Anal 27(3) 287-296 (Aug 1996), 12T69
Uniform asymptotic stability in terms of two measures for functional differential equations, Nonlinear Anal 27(4) 413-427 (Aug 1996), 12T70

106H. Variational methods

Duality and the complementary energy principle for a class of nonlinear structures - Part I: Five-parameter shell model, Arch Mech 47(4) 677-698 (1995), 3A65
Duality and the complementary energy principle for a class of nonlinear structures - Part II: Anomalous dual variational principles for compressed elastic beams, Arch Mech 47(4) 699-724 (1995), 3A66
Variational estimation of soliton contribution to nonlinear propagation of Gaussians, J Tech Phys 36(2) 199-213 (1995), 3A67
Derivation of the variational inequalities of the incremental frictional elastic contact problems, Arch Mech 47(4) 725-743 (1995), 3A433
Iterative and direct solvers for interface problems with Lagrange multipliers, Comput Syst Eng 6(3) 261-273 (Jun 1995), 4A34
Optimal solutions of boundary value problems for differential equations, Nonlinear Anal 26(3) 509-524 (Feb 1996), 4T79
Periodic and homoclinic orbits for Lorentz-Lagrangian systems via variational methods, Nonlinear Anal 26(3) 443-462 (Feb 1996), 4T296
Parametric unification of matrix structural analysis: Classical formulation and d-connected mixed elements, Finite Elements Anal Des 21(1-2) 45-74 (Oct 1995), 5A6
Variational principles for constrained systems: Theory and experiment, Int J Non-Linear Mech 30(6) 793-815 (Nov 1995), 5A66
Modified energy functional for the Reissner theory of plates, Mech Solids 30(2) 110-117 (1995), 5A517
Hemivariational Inequalities: Applications in Mechanics Engineering (IFS, Springer, New York, 1993) 6R1
Parallel solution of variational inequality problems with nonlinear source terms, IMA J Numer Anal 16(1) 31-45 (1996), 6A54
Nonsmooth mechanics and dynamic contact problems, J Theor Appl Mech 34(1) 43-56 (1996), 6A76
Representation of the linear plate and shell theory equations with allowance for transverse shear deformation, Mech Solids 30(3) 150-160 (1995), 6T475
Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, Composite Struct 34(1) 29-42 (1996), 7A163
Vibration frequencies for elliptical and semi-elliptical Mindlin plates, Struct Eng and Mech 3(1) 35-48 (Jan 1995), 8A121
Analysis of an internally pressurized orthogonally stiffened cylindrical shell with an asymmetrical section ring, Mech Composite Mat Struct 3(1) 29-64 (Mar 1996), 8A496
Response of unsymmetrical laminates to simple applied forces, Mech Composite Mat Struct 3(1) 65-80 (Mar 1996), 8A510
Variational modifications of Zemockin contact problems solution method, Eng Trans 43(4) 527-544 (1995), 9A122
Bounds for the overall properties of viscoelastic heterogeneous and composite materials, Arch Mech 47(6) 1125-1155 (1995), 9A501
Stiffness loss in laminates with intralaminar cracks - Part I: 2D modeling, Arch Mech 48(1) 143-161 (1996), 9A544
Stiffness loss in laminates with intralaminar cracks - Part II: Periodic distribution of cracks and homogenization, Arch Mech 48(1) 163-190 (1996), 9A545
Unconstrained methods for generalized nonlinear complementarity and variational inequality problems, J Comput Math 14(2) 99-107 (Apr 1996), 10A64
Normal terms of Hamiltonian systems, Acta Phys Polonica A 89(4) 467-479 (Apr 1996), 10A119
Buckling of annular plates elastically restrained against rotation along edges, Thin-Walled Struct 25(3) 231-246 (1996), 10A629
Variational principles with complementarity for contact problems and nonlinear complementarity models (Chinese), J Comput Struct Mech Appl 13(2) 138-146 (May 1996), 11T68
Functional Analysis: Applications in Mechanics and Inverse Problems - Solid Mechanics and Its Applications Series, Vol 41 (Kluwer, Netherlands, 1996) 12R1

106I. Algorithms and software development

Accuracy of TSVD solutions computed from rank-revealing decompositions, Numer Math 70(4) 453-471 (Jun 1995), 1A65
Accurate numerical integration of stiff differential Riccati equations, Appl Math Comput 72(2-3) 183-203 (Oct 1995), 1A66
Algorithm for the approximate solution of integral equations of Mellin type, Numer Math 70(4) 427-452 (Jun 1995), 1A67
Approximation of scattered data using smooth grid functions, J Comput Appl Math 59(2) 191-205 (May 1995), 1A68
Comparison of 2D line clipping algorithms, Machine Graphics & Vision 3(4) 625-633 (1994), 1A69
Convergence of a new trust region algorithm, Numer Math 70(4) 515-539 (Jun 1995), 1A70
Efficient algorithm for testing the quality of the output of random number generators, Adv Eng Software 22(2) 69-77 (1995), 1A71
Efficient navigation of parameter landscapes, J Acoust Soc Am 98(3) 1637-1644 (Sep 1995), 1A72
Generating image filters for target recognition by Hebbian neural network learning, J Aircraft 32(4) 880-882 (Aug 1995), 1T73
L_p-approximation method for the numerical solution of singular integral equations, Appl Math Comput 72(2-3) 285-300 (Oct 1995), 1T74
Monitoring data stream in a visual system, Machine Graphics & Vision 3(4) 611-623 (1994), 1A75
Non-uniform adaptive meshing for global illumination, Machine Graphics & Vision 3(4) 601-609 (1994), 1A76
Perspective: Selected benchmarks from commercial CFD codes, J Fluids Eng 117(2) 208-218 (Jun 1995), 1A77
Self-optimizing single-step algorithm for the numerical integration of parabolic equations, Comput Methods Appl Mech Eng 125(1-4) 109-121 (Sep 1995), 1A78
Iterative dynamic programming for minimum energy control problems with time delay, Optimal Control Appl Methods 16(3) 217-227 (Sep 1995), 1A386
Knowledge-based discrete optimization of truss structures, Eng Trans 43(1-2) 313-325 (1995), 1A872
Fully spectral solution method for parabolic equations, Commun Numer Methods Eng 11(9) 765-774 (Sep 1995), 2A56
Generalized Newton-Raphson method using curvature, Commun Numer Methods Eng 11(9) 757-763 (Sep 1995), 2A57
Inverse extreme eigenpair problem and its parallel iterative solution for symmetric tridiagonal matrices, SIAM J Numer Anal 32(5) 1620-1634 (Oct 1995), 2A58
Modeling with collaborating PDE solvers: Theory and practice, Comput Syst Eng 6(2) 87-95 (Apr 1995), 2A59
Proceedings of the International Meeting on linear and nonlinear iterative methods and verification of solution, held at Matsuyama, Japan on July 6-9, 1993, J Comput Appl Math 60(1-2) 3-279 (Jun 1995), 2A60
Vector-parallel scheme for Navier-Stokes computations at multi-Gigaflop performance rates, Int J Numer Methods Fluids 21(6) 445-466 (Sep 1995), 2A61
New approach to free-form surface mesh control in a CAD environment, Int J Numer Methods Eng 38(18) 3121-3142 (Sep 1995), 2A831
Engineering Analysis with Maple/Matematica (Academic, San Diego, CA, 1995) 3R1
Applications of High-Performance Computing in Engineering IV - Proc of 4th Int Conf, ASE '95, Milan, June 1995 (Comput Mech, Billerica MA, 1995) 3N4
Computed-assisted hybrid reasoning in simulation and analysis of physical systems, Comp Assisted Mech Eng Sci 2(3) 165-186 (1995), 3A68
Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions, Numer Math 71(4) 527-560 (Oct 1995), 3A69
Domain decomposition with nonmatching grids: Augmented Lagrangian approach, Math Comput 64(212) 1367-1396 (Oct 1995), 3A70
High-order quadratures for integral operators with singular kernels, J Comput Appl Math 60(3) 367-378 (Jun 1995), 3A71
Volume-preserving algorithms for source-free dynamical systems, Numer Math 71(4) 451-463 (Oct 1995), 3A72
Block conjugate gradient method applied to linear systems with multiple right-hand sides, Comput Methods Appl Mech Eng 127(1-4) 203-215 (Nov 1995), 4A80
Construction of asymptotically best quadrature formulas, Numer Math 72(1) 93-116 (Nov 1995), 4A81
Fast computation of the C-space of convex 2D algebraic objects, Int J Robotics Res 14(6) 590-608 (Dec 1995), 4A82
Integration of polynomials over linear polyhedra in Euclidean 3D space, Comput Methods Appl Mech Eng 126(3-4) 373-392 (Oct 1995), 4A83
New insights in GMRES-like methods with variable preconditioners, J Comput Appl Math 61(2) 189-204 (Jul 1995), 4A84
Numerical solution of DAE systems using block BDF methods, J Comput Appl Math 62(3) 255-266 (Sep 1995), 4A85
Parallel computing for the high precision direct integration method, Comput Methods Appl Mech Eng 126(3-4) 315-331 (Oct 1995), 4A86
Parallel solution of tridiagonal systems for the Poisson equation, J Sci Comput 10(2) 181-190 (Jun 1995), 4A87
Pipelined algorithm for Newton's divided difference interpolation, Comput Struct 58(4) 689-701 (Feb 1996), 4A88
Reducing the effect of global communication in GMRES(m) and CG on parallel distributed memory computers, Appl Numer Math 18(4) 441-459 (Oct 1995), 4A89
Scalable Lagrange multiplier based domain decomposition method for time-dependent problems, Int J Numer Methods Eng 38(22) 3831-3853 (Nov 1995), 4A90
SOR as a preconditioner, Appl Numer Math 18(4) 431-440 (Oct 1995), 4A91
Tracing the equilibrium path by dynamic relaxation in materially nonlinear problems, Int J Numer Anal Methods Geomech 19(11) 749-767 (Nov 1995), 4A92
Real Computing Made Real: Preventing Errors in Scientific and Engineering Calculations (Princeton UP, Princeton NJ, 1996) 5R2
Accuracy and Stability of Numerical Algorithms (SIAM, Phila, PA, 1996) 5N3
Numerical Methods for Engineers (Prentice Hall, Upper Saddle River, NJ, 1996) 5N5

Survey of Preconditioned Iterative Methods - Pitman Research Notes in Mathematics, No 328 (Wiley, New York, 1995) 5N6
Decoupled algorithm for solving a finite element problem for the approximation of viscoelastic fluid flow, Numer Math 72(2) 223-238 (Dec 1995), 5T20
Block monotone iterative methods for numerical solutions of nonlinear elliptic equations, Numer Math 72(2) 239-262 (Dec 1995), 5A67
Comparison of parallel programming models for multiblock flow computations, J Comput Phys 122(2) 280-290 (Dec 1995), 5A68
Implementation of some higher-order convection schemes on non-uniform grids, Int J Numer Methods Fluids 21(12) 1201-1220 (Dec 1995), 5A69
Methods for computing lower bounds to eigenvalues of self-adjoint operators, Numer Math 72(2) 143-172 (Dec 1995), 5A70
Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations - Classics in Applied Mathematics, Vol 14 (SIAM, Phila, PA, 1996) 6R2
Numerical Analysis and Graphic Visualization with MATLAB (Prentice-Hall, Englewood Cliffs NJ, 1996) 6N5
Convergence of parallel multiblock multigrid methods, Appl Numer Math 19(1-2) 115-128 (Nov 1995), 6A55
Experience in implementing the Algebraic Multilevel Iteration method on a SIMD-type computer, Appl Numer Math 19(1-2) 71-90 (Nov 1995), 6A56
Explicit parallel block Cholesky algorithms on the CRAY APP, Appl Numer Math 19(1-2) 91-114 (Nov 1995), 6A57
Implementation of a Generalized Cross Validation algorithm using deflation techniques for linear systems, Appl Numer Math 19(1-2) 17-31 (Nov 1995), 6A58
Incomplete block LU preconditioners on slightly overlapping subdomains for a massively parallel computer, Appl Numer Math 19(1-2) 129-146 (Nov 1995), 6A59
Iterative methods for the boundary value problem of a fourth-order differential-difference equation, Appl Math Comput 73(2-3) 257-270 (Dec 1995), 6A60
Models of asynchronous parallel nonlinear multisplitting relaxed iterations, J Comput Math 13(4) 369-386 (Oct 1995), 6A61
Object oriented software methodology: A case study of systems for dam monitoring, state diagnosis and visualization, Comp Assisted Mech Eng Sci 2(4) 271-287 (1995), 6A62
Optimal backward perturbation bounds for the linear least-squares problem with multiple right-hand sides, IMA J Numer Anal 16(1) 1-11 (1996), 6A63
Parallel globally adaptive algorithms for multidimensional integration, Appl Numer Math 19(1-2) 3-16 (Nov 1995), 6A64
Parallel Iterative Methods (PIM) pacakge for the solution of systems of linear equations on parallel computers, Appl Numer Math 19(1-2) 33-50 (Nov 1995), 6A65
Parallel multigrid using PVM, Appl Numer Math 19(1-2) 63-69 (Nov 1995), 6A66
Robust preconditioning of large, sparse, symmetric eigenvalue problems, J Comput Appl Math 64(3) 197-215 (Dec 1995), 6A67
Splittings for rectangular systems, J Comput Math 13(4) 337-342 (Oct 1995), 6A68
Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, Comp Assisted Mech Eng Sci 2(4) 289-305 (1995), 6A69
Neural network for structural dynamic model identification, J Eng Mech 121(12) 1377-1381 (Dec 1995), 6A274
Structural engineering and software: Certainty, uncertainty and probability, Proc Inst Mech Eng J Aerospace Eng 209(G4) 307-311 (1995), 6A740
Iterative Solution Methods (Cambridge UP, New York, 1996) 7N4
Algorithm for calculating Jones polynomials, Appl Math Comput 74(2-3) 249-259 (Feb 1996), 7T73
Computing the generalized singular values-vectors of large sparse or structured matrix pairs, Numer Math 72(3) 391-417 (Jan 1996), 7T74
Evaluating systems of equations: Towards a formal approach, Appl Math Comput 75(2-3) 223-237 (Mar 1996), 7T75
Iterative methods for computing the generalized inverse $A_{T,S}^{(2)}$ of a matrix A, Appl Math Comput 75(2-3) 207-222 (Mar 1996), 7T76
Projection cutting plane algorithm for convex programming problems, Appl Math Comput 74(2-3) 261-271 (Feb 1996), 7T77
Quick evaluation of determinants, Appl Math Comput 75(2-3) 117-118 (Mar 1996), 7A78
Smallest singular value method for solving inverse eigenvalue problems, J Comput Math 14(1) 23-31 (Jan 1996), 7A79
Stability of dynamic groups in distributed computing systems, Appl Math Comput 74(2-3) 223-248 (Feb 1996), 7T80
Structural stability of ordinary differential equations with respect to discretization methods, Numer Math 72(4) 449-479 (Feb 1996), 7T81
Varying the componentwise order of the multistep methods in solving ODEs and its absolute stability, Appl Math Comput 74(2-3) 209-222 (Feb 1996), 7A82
Convergence rate of iteration processes in physically nonlinear elasticity theory, Prikl Mekh (Appl Mech) 31(1) 86-90 (1995), 7T494
Modeling unknown structural systems through the use of neural networks, Earthquake Eng Struct Dyn 25(2) 117-128 (Feb 1996), 7A1384
Algorithm for coarsening unconstructed meshes, Numer Math 73(1) 1-36 (Mar 1996), 8A52
Overview and applications of the reproducing Kernel Particle methods, Arch Comput Methods Eng 3(1) 3-80 (1996), 9A22
Bayesian inference and Gibbs sampling in spectral analysis and parameter estimation - II, Inverse Prob 12(2) 121-137 (Apr 1996), 9A123
Construction of a translator for robot-programming languages, J Intelligent & Robotic Syst 15(2) 209-232 (Feb 1996), 9A124
Higher-order methods for eigenvalues of second-order ordinary differential equations with boundary conditions, Appl Math Comput 76(2-3) 293-300 (May 1996), 9A125
Iterative procedure for estimation of variable coefficients in a hyperbolic system, Appl Math Comput 76(2-3) 213-250 (May 1996), 9A126
Load balancing algorithm for unstructured grids, Int J Comput Fluid Dyn 5(1-2) 39-58 (1995), 9T127
Modeling software systems in configuration management, Appl Math Comp Sci 5(4) 751-764 (1995), 9A128
Note on the artifical viscosity of numerical schemes, Int J Comput Fluid Dyn 5(3-4) 281-290 (1995), 9T129
Pivoting strategies leading to small bounds of the errors for certain linear systems, IMA J Numer Anal 16(2) 141-153 (1996), 9A130
Second-order Godunov method on arbitrary grids, J Comput Phys 124(2) 383-395 (Mar 1996), 9T131
Universal data compression based on approximate string matching, Appl Math Comp Sci 5(4) 717-742 (1995), 9T132
Linear and Nonlinear Conjugate Gradient-Related Methods - Proc of AMS-IMS-SIAM Summer Res Conf, Univ of Washington, July 1995 (SIAM, Phila, PA, 1996) 10N4
Acceleration of convergence of waveform relaxation iterations for second order linear system, Trans Can Soc Mech Eng 20(1) 87-103 (1996), 10A65
Augmented biplot and some examples of its use, Machine Graphics & Vision 4(3-4) 161-185 (1995), 10A66
Detection of mutual position of a point and a convex polygon in E^2, Machine Graphics & Vision 4(3-4) 151-160 (1995), 10A67
Prototype object-oriented FEM program: Class hierarchy and graphic user interface, Comp Assisted Mech Eng Sci 3(1) 65-74 (1996), 10A68
Rigid body structure and motion from two-frame point-correspondences under perspective projection, Machine Graphics & Vision 4(3-4) 187-202 (1995), 10T69
Numerical-analytical method for studying natural vibrations of nonuniform rods, Mech Solids 30(5) 173-182 (1995), 10A153
Neural network approach to detection of changes in structural parameters, J Eng Mech 122(4) 350-360 (Apr 1996), 10A399
Iterative Methods for Linear and Nonlinear Equations - Frontiers in Applied Mathematics 16 (SIAM, Phila, PA, 1995) 11N6
Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75 (SIAM, Phila, PA, 1995) 11N9
Gradient algorithms for principal component analysis, J Austral Math Soc B 37(4) 430-450 (Apr 1996), 11A69
Proceedings of the Sixth International Congress on Computational and Applied Mathematics, July 1994, Leuven, Belgium, J Comput Appl Math 66(1-2) 5-588 (Jan 1996), 11A70
Quadrature schemes for a general family of functions, Appl Math Comput 77(1) 1-8 (Jun 1996), 11A71
Two methods for solving integral equations, Appl Math Comput 77(1) 79-89 (Jun 1996), 11A72
Unusual stability property of a direct integration algorithm, J Sound Vib 192(5) 1015-1017 (May 1996), 11A73
Wavelet-based algorithm for the Hilbert transform, Mech Syst Signal Processing 10(2) 125-134 (Mar 1996), 11A274
Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures, Numer Math 73(4) 449-472 (Jun 1996), 12A30
Analytical and numerical studies of the convergence behavior of the J transformation, J Comput Appl Math 69(1) 81-112 (Apr 1996), 12A71
Computation of Hopf branches bifurcating from a class of Hopf-steady-state points, Comput Methods Appl Mech Eng 131(1-2) 159-172 (Apr 1996), 12A72
Conjugate gradient methods for solving the smallest eigenpair of large symmetric eigenvalue problems, Int J Numer Methods Eng 39(13) 2209-2229 (Jul 1996), 12A73
Construction of an algebraically reduced system for the acceleration of preconditioned conjugate gradients, J Comput Appl Math 70(2) 189-200 (Jun 1996), 12A74
Convergence of a substructuring method with Lagrange multipliers, Numer Math 73(4) 507-519 (Jun 1996), 12A75
Method for solving the indirect approximation problem, Appl Math Comput 77(2-3) 97-107 (Jul 1996), 12A76
Multiplicative algorithms for determining positive solutions of nonlinear equations, J Comput Appl Math 69(1) 27-37 (Apr 1996), 12A77
Multithreaded model for the dynamic load-balancing of parallel adaptive PDE computations, Appl Numer Math 20(4) 349-365 (Apr 1996), 12A78
Parallel adaptive hp-refinement techniques for conservation laws, Appl Numer Math 20(4) 367-386 (Apr 1996), 12A79
Parallel hp-adaptive discontinuous Galerkin method for hyperbolic conservation laws, Appl Numer Math 20(4) 321-336 (Apr 1996), 12A80
Practical algorithm for the efficient computation of eigenvector sensitivities, Comput Methods Appl Mech Eng 130(3-4) 355-367 (Apr 1996), 12A81
Real-time computation of the eigenvectors of a class of positive definite matrices, Appl Math Comput 77(2-3) 267-280 (Jul 1996), 12A82
Recursive construction of particular solutions to a system of coupled linear partial differential equations with polynomial source term, J Comput Appl Math 69(2) 319-329 (May 1996), 12A83
Relative-error bounds for the LU decomposition via the GTH algorithm, Numer Math 73(4) 507-519 (Jun 1996), 12A84
Restarted GMRES preconditioned by deflation, J Comput Appl Math 69(2) 303-318 (May 1996), 12A85
Special Issue on Applications of Neural Networks in Process Engineering and System Dynamics, J Syst Eng 6(3) 128-222 (1996), 12A464
Combining genetic and deterministic algorithms for locating actuators on space structures, J Spacecraft Rockets 33(3) 422-427 (Jun 1996), 12A860

106K. Computer architectures, systems, hardware

Recovery of structure of looped jointed objects from multiframes, Machine Graphics & Vision 3(4) 645-656 (1994), 1A79
Applications of High-Performance Computing in Engineering IV - Proc of 4th Int Conf, ASE '95, Milan, June 1995 (Comput Mech, Billerica MA, 1995) 3N4
Filter automata and PRR filtering, J Tech Phys 36(2) 153-163 (1995), 3A73
Concurrent element level processing for nonlinear dynamic analysis on a massively parallel computer, Comput Syst Eng 6(3) 285-293 (Jun 1995), 4A27
Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, Comput Syst Eng 6(3) 251-259 (Jun 1995), 4A39
Performance of a finite volume CEM code on multicomputers, Comput Syst Eng 6(3) 241-250 (Jun 1995), 4A53
Scalability of parallel spatial direct numerical simulations on Intel hypercube and IBM SP1 and SP2, J Sci Comput 10(2) 233-269 (Jun 1995), 4A93
Comparison of parallel programming models for multiblock flow computations, J Comput Phys 122(2) 280-290 (Dec 1995), 5A68
Load balancing algorithm for unstructured grids, Int J Comput Fluid Dyn 5(1-2) 39-58 (1995), 9T127
New efficient algorithm for computational aeroacoustics on parallel processors, J Comput Phys 125(1) 135-149 (Apr 1996), 9T385
Parallel block-structured multigrid method for the prediction of incompressible flows, Int J Numer Methods Fluids 22(6) 549-565 (Mar 1996), 9A1090
Implementation of a new coding scheme for ray tracing subdivision algorithms, Machine Graphics & Vision 4(3-4) 137-149 (1995), 10A70
Application of neural networks to flank wear prediction, Mech Syst Signal Processing 10(3) 265-276 (May 1996), 12A684

II. DYNAMICS & VIBRATION

150. KINEMATICS AND DYNAMICS

Structures Under Shock and Impact IV - Proc of 4th Int Conf, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 11N17

150A. General theory

Calculation of second and higher order eigenvector derivatives, J Guidance Control Dyn 18(4) 919-921 (Aug 1995), 1T80
Eigenvector derivatives for mechanical second-order systems, J Guidance Control Dyn 18(4) 899-906 (Aug 1995), 1A81
Generalized Euler equations, J Theor Appl Mech 33(3) 605-614 (1995), 1A82
Geometric stiffening in multibody dynamics formulations, J Guidance Control Dyn 18(4) 882-890 (Aug 1995), 1A83
Rheonomic constraints force, Facta Serics Mech Auto Control Robotic 1(3) 313-322 (1993), 1T84
Hybrid equations of motion for flexible multibody systems using quasicoordinates, J Guidance Control Dyn 18(4) 678-688 (Aug 1995), 1A89
Advanced Engineering Dynamics, Second Edition (Cambridge UP, New York, 1995) 2R6
Introduction to the Modern Theory of Dynamical Systems (Cambridge UP, New York, 1994) 2R7
Theory of Machines and Mechanisms, Second Edition (McGraw-Hill, New York, 1995) 2R10
Existence and multiplicity results for homoclinic solutions to a class of Hamiltonian systems, Nonlinear Anal 25(11) 1095-1113 (Dec 1995), 2T62
Patterns of sustained oscillations in neural networks with delayed interactions, Appl Math Comput 73(1) 55-75 (Nov 1995), 2T63
Classical Mechanics: A Modern Perspective, Second Edition (McGraw-Hill, New York, 1995) 3R6
Spaceflight Mechanics 1995, Part I and II - Advances in the Astronautical Sciences, Vol 89 (Univelt, San Diego, 1995) 3N9
Theoretical Mechanics, Seventh Edition (Polish) (Sci Pub, Warsaw, 1995) 3N10
Centrifugal impulse as coordinate in the Tabarrokian formulation, Trans Can Soc Mech Eng 19(3) 261-269 (1995), 3A74
Dynamic analysis of tapered roller bearing under fully flooded conditions - Part 1: Theoretical formulation, Wear 188(1-2) 1-10 (Sep 1995), 3A75
Dynamic analysis of tapered roller bearings under fully flooded conditions - Part 2: Results, Wear 188(1-2) 11-18 (Sep 1995), 3A76
Dynamical formalism for uncoated systems of rigid bodies, Acta Mech 112(1-4) 203-221 (1995), 3A77
Theory of spontaneous processes, Struct Eng Review 7(1) 23-34 (Feb 1995), 3A78
Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), J Vib Eng 8(2) 178-183 (Jun 1995), 3A168
Canonical variables for one Hamiltonian system, Mech Res Commun 22(6) 519-525 (Dec 1995), 4T94
G-moving frames and their applications in dynamics, Int J Eng Sci 33(15) 2261-2275 (Dec 1995), 4A95
Local behavior of solutions of Hamilton-Jacobi equations, Nonlinear Anal 26(2) 323-328 (Jan 1996), 4T96
Mechanism of IRCF (Internal resonance due to closely spaced natural frequencies) (Chinese), J Vib Eng 8(3) 226-234 (Sep 1995), 4A97
Multivalent guiding functions for forced oscillation problems, Nonlinear Anal 26(3) 631-639 (Feb 1996), 4T98
Time series analysis for load identification by using impulse response function (Chinese), J Vib Eng 8(3) 235-242 (Sep 1995), 4A99
Modeling of translational motion between two flexible bodies connected via three points, J Guidance Control Dyn 18(6) 1392-1397 (Dec 1995), 4A110
Kinematics and Dynamics of Multi-Body Systems (Springer-Verlag, Wien, 1995) 5N10
Conservation laws in nonlinear dissipative systems, Int J Non-Linear Mech 30(6) 915-925 (Nov 1995), 5A71
Bifurcations and rotation numbers for maps of the circle associated with flows on the torus and models of cardiac arrhythmias, Dyn Stability Syst 10(4) 367-386 (1995), 6A70
Pattern evocation and geometric phases in mechanical systems with symmetry, Dyn Stability Syst 10(4) 315-338 (1995), 6A71
Weyl-Wigner-Moyal formalism - I: Operator ordering, Acta Phys Polonica B 26(11) 1703-1716 (Nov 1995), 6A72
Pseudoholonomic behavior of planar space robots, J Guidance Control Dyn 19(1) 251-253 (Feb 1996), 6T363
Mechanical property of constraint, Appl Math Mech 16(11) 1095-1103 (Nov 1995), 7A83
Fundamentals of Applied Dynamics (Wiley, New York, 1996) 9R4
Equations of motion of body for accelerated frames, Prikl Mekh (Appl Mech) 31(9) 79-89 (1995), 9A133
Introduction to Dynamics, Third Edition (PWS-Kent, Boston, MA, 1995) 10N11
Main Polish historical and modern sources on applied mechanics, Appl Mech Rev 49(8) 401-432 (Aug 1996), 10A2
Geometry of nonholonomic constraints, Reports Math Phys 36(2-3) 275-286 (Dec 1995), 10A71

Engineering Mechanics, Second Edition: Dynamics (Wiley, New York, 1996) 11R12
Analytical Dynamics: A New Approach (Cambridge UP, New York, 1996) 12R3

150B. Kinematics of rigid bodies and particles

50th Anniversary of the Design Engineering Division (ASME Press, New York, 1995) 1N20
Advanced Engineering Dynamics, Second Edition (Cambridge UP, New York, 1995) 2R6
Finite twist mapping and its application to planar serial manipulators with revolute joints, Proc Inst Mech Eng C **209**(C4) 263-271 (1995), 2A64
Kinematic analysis of a gearless articulated speed reducer, Mech Res Commun **22**(5) 415-429 (Oct 1995), 2T65
Computational Kinematics '95 - Proc of 2nd Workshop on Computational Kinematics, Sept 4-6, 1995, Sophia Antipolis, France (Kluwer, MA, 1995) 3N8
Case for a general method of kinematic analysis of plane mechanisms based on equations of constraint, Proc Inst Mech Eng C **209**(C5) 337-343 (1995), 4A100
Modification of dynamic model of mechanical structures based on fuzzy optimization knowledge (Chinese), J Vib Eng **8**(3) 219-225 (Sep 1995), 4A101
Transference principle in kinematics: Its various forms and limitations, Mech Machine Theory **31**(1) 57-76 (Jan 1996), 4A102
New computational algorithm for 7R spatial mechanisms, Mech Machine Theory **31**(1) 23-43 (Jan 1996), 4A868
Kinematics and Dynamics of Multi-Body Systems (Springer-Verlag, Wien, 1995) 5N10
Integral invariant in the problem on an ellipsoid with a special distribution of mass rolling without slippage on a fixed plane, Mech Solids **30**(2) 49-52 (1995), 5A72
Symbolic differentiation of the velocity mapping for a serial kinematic chain, Mech Machine Theory **31**(2) 135-148 (Feb 1996), 6A73
Free-floating closed-chain planar robots: Kinematics and path planning, Nonlinear Dyn **9**(1-2) 1-19 (Feb 1996), 7A433
Algorithm to identify the type of dof in kinematic chains, JSME Int J Ser C **39**(1) 144-148 (Mar 1996), 9A134
Application of screw algebra to the acceleration analysis of serial chains, Mech Machine Theory **31**(4) 445-457 (May 1996), 9A135
Algorithm for solving the direct kinematics of general Stewart-Gough platforms, Mech Machine Theory **31**(4) 365-379 (May 1996), 9A1018
Statics and Kinematics with Applications to Robotics (Cambridge UP, New York, 1996) 10R14
Quaternion laws of kinematic attitude control of a rigid body by the angular velocity, Mech Solids **30**(6) 1-10 (1995), 10A72
Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, Mech Machine Theory **31**(5) 573-587 (Jul 1996), 11A74
Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, Mech Machine Theory **31**(5) 589-605 (Jul 1996), 11A75
Mobility analysis of spatial 4- and 5-link mechanisms of the RS class, Mech Machine Theory **31**(5) 673-690 (Jul 1996), 11A825
Use of compatibility linkages and solution structures in the dimensional synthesis of mechanism components, Mech Machine Theory **31**(5) 619-635 (Jul 1996), 11A826
Constructive predictor-corrector algorithm for the direct position kinematics problem for a general 6-6 Stewart platform, Mech Machine Theory **31**(6) 799-811 (Aug 1996), 12A86
Displacement analysis of an actively articulated wheeled vehicle configuration with extensions to motion planning on uneven terrain, J Mech Des **118**(2) 312-317 (Jun 1996), 12A87
Generating the swept area of a body undergoing planar motion, J Mech Des **118**(2) 186-192 (Jun 1996), 12A88

150D. Dynamics of rigid bodies and particles

Improved literal approximation for lateral-directional dynamics of rigid aircraft, J Guidance Control Dyn **18**(4) 925-927 (Aug 1995), 1T85
Magnetic spherical pendulum, Meccanica **30**(3) 271-289 (Jun 1995), 1A86
Certain methods of considering dry friction in dynamic analysis of planar open kinematic chains, J Theor Appl Mech **33**(4) 879-897 (1995), 3A79
Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, Mech Solids **30**(1) 23-30 (1995), 3A80
Investigation of engine-excited vertical automobile vibrations, Mech Solids **30**(1) 40-49 (1995), 3A81
Design methodology for zero reaction robots, Trans Can Soc Mech Eng **19**(3) 197-211 (1995), 3A400
Particle method for a self-gravitating fluid: A convergence result, Math Methods Appl Sci **18**(13) 1083-1094 (Oct 1995), 3A875
Time series analysis for load identification by using impulse response function (Chinese), J Vib Eng **8**(3) 235-242 (Sep 1995), 4A99
Painleve paradoxes and the dynamics of a brake shoe, J Appl Math Mech **59**(3) 343-352 (1995), 4A103
Investigation of anti-lock braking strategies for heavy goods vehicles, Proc Inst Mech Eng D **209**(D4) 263-271 (1995), 4A850
Self-excited oscillator with increasing coefficient of friction (German), Z Angew Math Mech **75**(11) 811-820 (1995), 5A73
Limiting case for the motion of a rigid body about a fixed point in the Newtonian force field, Z Angew Math Mech **75**(11) 821-829 (1995), 5A238
Simulation of locomotive dynamics considering tribological characteristics of a rail-wheel pair, J Friction Wear **16**(1) 18-21 (1995), 5A778
Bang-bang control of the angular motion of a rigid body, Mech Solids **30**(3) 8-14 (1995), 6A74
Dynamics of a self-balancing unit in a multi-disk rotor, Mech Solids **30**(3) 41-46 (1995), 6T75
Nonsmooth mechanics and dynamic contact problems, J Theor Appl Mech **34**(1) 43-56 (1996), 6A76
Numerical solution of rail-wheel contact problems, J Theor Appl Mech **34**(1) 7-15 (1996), 6A77
Rigid body technique in the theory of motion of wheeled vehicles, Mech Solids **30**(3) 57-65 (1995), 6T78
Rotation of an axisymmetric rigid body with biharmonic characteristic of the restoring torque, Mech Solids **30**(3) 15-20 (1995), 6A79
Stability of steady-state rotor motions in elastic bearings, Mech Solids **30**(3) 47-56 (1995), 6T90
Orbital Mechanics, Second Edition (AIAA, MD, 1995) 7N8
Dynamic simulation of road vehicle performance under transient accelerating conditions, Proc Inst Mech Eng D **210**(D1) 11-21 (1996), 7A84
Dynamical behavior of a two-member system with rolling at critical and nearly critical velocities, Mech Solids **30**(4) 28-33 (1995), 7A85
Influence of external and internal friction on the stability of vertical rotation of a rigid body, Mech Solids **30**(4) 10-19 (1995), 7A86
Motions of a double pendulum, Nonlinear Anal **26**(7) 1177-1191 (Apr 1996), 8T69
Periodic motions of an infinite lattice of particles with nearest neighbor interaction, Nonlinear Anal **26**(6) 1103-1114 (Mar 1996), 8T70
Effect of mooring line arrangement on the dynamics of spread mooring systems, J Offshore Mech Arctic Eng **118**(1) 7-20 (Feb 1996), 8A1002
Fundamentals of Applied Dynamics (Wiley, New York, 1996) 9R4
Analytic solution of Euler's equations of motion for an asymmetric rigid body, J Appl Mech **63**(1) 149-155 (Mar 1996), 9A136
Melnikov's method for rigid bodies subject to small perturbation torques, Arch Appl Mech **66**(4) 215-230 (Mar 1996), 9A137
Application of Spinor method to dynamic analysis of robot, Appl Math Mech **17**(1) 77-83 (Jan 1996), 9A453
Dynamics of Vehicles on Roads and on Tracks - Proc of 14th IAVSD Symp, Ann Arbor MI, Aug 21-25, 1995 (Swets Zeitlinger, Netherlands, 1996) 10N10
Analytical transvection forms of the kinetic energy matrix and the inverse matrix for a system of bodies, Mech Solids **30**(5) 1-9 (1995), 10A73
Dynamics of a stochastic oscillator with impacts, Eur J Mech A **15**(2) 213-241 (1996), 10A74
Estimation of vibration intensity of mechanical systems subjected to disturbances of finite duration, J Machinery Manuf Reliab **6** 7-14 (1995), 10A75
Motion of cross-shaped bodies, Mech Solids **30**(6) 11-15 (1995), 10T76
New approach to the analysis of free rotations of rigid bodies, Z Angew Math Mech **76**(4) 187-204 (1996), 10A77
Vehicle dynamics-theory into practice, Proc Inst Mech Eng D **210**(D2) 83-94 (1996), 10A78
Dynamics of a bouncing ball with a sinusoidally vibrating table revisited, Nonlinear Dyn **10**(1) 1-18 (May 1996), 10A101
Motion of a rigid body with a rounded base due to harmonic excitation, Int J Non-Linear Mech **31**(2) 175-191 (Mar 1996), 10A110
Nonstationary transition through resonance, Nonlinear Dyn **10**(1) 31-48 (May 1996), 10A111
Motions with minimal joint speeds and joint accelerations for redundant manipulators, Eng Optim **25**(4) 277-294 (Mar 1996), 10A483
Vibrational imperfection sensitivity of Augusti's model structure in the vicinity of nonlinear static state, Int J Non-Linear Mech **31**(2) 229-236 (Mar 1996), 10A875
Locating oscillatory orbits of the parametrically-excited pendulum, J Austral Math Soc B **37**(3) 309-319 (Jan 1996), 11A76
Mechanical energy dissipation during oblique collisions of material points, Mec Appl **39**(6) 587-599 (Dec 1994), 11A77
Methods for low-velocity friction compensation: Theory and experimental study, J Robotic Syst **13**(6) 391-404 (Jun 1996), 11A805
Analytical Dynamics: A New Approach (Cambridge UP, New York, 1996) 12R3
Race Car Vehicle Dynamics (SAE, Warrendale PA, 1995) 12N9
Finite element incremental approach and exact rigid body inertia, J Mech Des **118**(2) 171-178 (Jun 1996), 12A9
Configuration space of a body moving on a surface and the kinematics of rolling, Int J Eng Sci **34**(7) 831-850 (May 1996), 12A89
Motion of an absolutely rigid body on a two-dof joint in a uniform gravitational field, J Appl Math Mech **59**(6) 865-872 (1995), 12A90
Reduction principle for ω-limit sets, Z Angew Math Mech **76**(6) 349-356 (1996), 12A91
Skateboard dynamics, Comput Methods Appl Mech Eng **131**(3-4) 327-333 (May 1996), 12A92
Stability of the equilibrium of a pendulum for vertical oscillations of the point of suspension, J Appl Math Mech **59**(6) 879-886 (1995), 12A93
Stability of the steady motions of a rigid body in a central field, J Appl Math Mech **59**(6) 903-910 (1995), 12A94
Stress and strain analysis in molecular dynamics simulation of solids, J Appl Mech **63**(2) 450-452 (Jun 1996), 12A95

150F. Multibody and variable mass systems

Geometric stiffening in multibody dynamics formulations, J Guidance Control Dyn **18**(4) 882-890 (Aug 1995), 1A83
Equivalence of the driving elastic forces in flexible multibody systems, Int J Numer Methods Eng **38**(17) 2907-2928 (Sep 1995), 1A87
Geometry of constrained motion, Z Angew Math Mech **75**(8) 637-640 (1995), 1A88
Hybrid equations of motion for flexible multibody systems using quasicoordinates, J Guidance Control Dyn **18**(4) 678-688 (Aug 1995), 1A89
Simulation of an open chain of flexible links in a mixed formalism, J Robotic Syst **12**(9) 613-628 (Sep 1995), 1A90
Dynamic modeling of a trailing wire towed by an orbiting aircraft, J Guidance Control Dyn **18**(4) 875-881 (Aug 1995), 1A142
Configurations of symbolic equations of motion for rigid multibody systems, Mech Machine Theory **30**(8) 1149-1170 (Nov 1995), 2A66
Existence and uniqueness of solutions for accelerations for multi-body systems with friction, Z Angew Math Mech **75**(9) 679-689 (1995), 2A67
Kinetic friction locking for multi-body systems with friction, Z Angew Math Phys **46**(5) 693-708 (Sep 1995), 2A68
Application of the group and geometrical properties of E(3) to the problems of rigid-body systems, Acta Mech **112**(1-4) 159-171 (1995), 3A82
Dynamic analysis of a machine model with time-varying mass, Acta Mech **112**(1-4) 173-186 (1995), 3A83
Effect of friction on multibody dynamics, Eur J Mech A **14**(5) 807-825 (1995), 3A84
Dynamics of flexible mechanical systems with contact-impact and plastic deformations, Nonlinear Dyn **8**(4) 491-512 (Dec 1995), 4A104
Filament-wound composite links in multibody systems, Comput Struct **58**(3) 465-469 (Feb 1996), 4A105
Geometrical description of the nonlinear dynamics of a multiple pendulum, SIAM J Appl Math **55**(6) 1753-1763 (Dec 1995), 4A106
Regularization methods for constrained mechanical multibody systems, Z Angew Math Mech **75**(10) 761-773 (1995), 4A107
Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), J Vib Eng **8**(3) 212-218 (Sep 1995), 4A108
Variational principles for constrained systems: Theory and experiment, Int J Non-Linear Mech **30**(6) 793-815 (Nov 1995), 5A66
Comparative study of recursive methods, Arch Appl Mech **66**(1-2) 9-19 (Dec 1995), 5A74
Existence and numerical approximation of periodic motions of an infinite lattice of particles, Z Angew Math Phys **46**(6) 898-912 (Nov 1995), 5A75
Geometric stiffness matrices in flexible multibody dynamics, J Vib Acoust **117**(4) 452-461 (Oct 1995), 5A76
Geometrically nonlinear formulations of beams in flexible multibody dynamics, J Vib Acoust **117**(4) 501-509 (Oct 1995), 5A77
Symbolic formulation for linearization of multibody equations of motion, J Mech Des **117**(3) 441-445 (Sep 1995), 5A78
Three dimensional rigid-body collisions with multiple contact points, J Appl Mech **62**(3) 725-732 (Sep 1995), 5A79
Singularly perturbed bond graph models for simulation of multibody systems, J Dyn Syst Meas Control **117**(3) 401-410 (Sep 1995), 5A314
Redundancy resolution of robotic manipulators using normalized generalized inverses, J Mech Des **117**(3) 454-459 (Sep 1995), 5A367
General formulation for N-body tethered satellite system dynamics, J Guidance Control Dyn **19**(1) 75-83 (Feb 1996), 6A80
Kane's equations for percussion motion of variable mass nonholonomic mechanical systems, Appl Math Mech **16**(9) 839-850 (Sep 1995), 6A81
Satellite pitch dynamics in the elliptic problem of three bodies, J Guidance Control Dyn **19**(1) 68-74 (Feb 1996), 6A82
Scalar form of dynamic equations for a topologically uniform 3D-chain, Trans Can Soc Mech Eng **19**(4) 397-416 (1995), 6A83
Wittenburg's formulation of multibody dynamics equations from a graph-theoretic perspective, Mech Machine Theory **31**(2) 201-213 (Feb 1996), 6A84
Augmented Lagrangian and mass-orthogonal projection methods for constrained multibody dynamics, Nonlinear Dyn **9**(1-2) 113-130 (Feb 1996), 7A87
Efficient simulation of tree-structured, free-floating multibody systems using momentum integrals, Mech Struct Machines **24**(1) 89-103 (1996), 7A88
Flexible multibody dynamics: An object-oriented approach, Nonlinear Dyn **9**(1-2) 205-221 (Feb 1996), 7A89
Minimal dynamic characterization of tree-like multibody systems, Nonlinear Dyn **9**(1-2) 165-184 (Feb 1996), 7A90
Modeling of multibody systems with the object-oriented modeling language Dymola, Nonlinear Dyn **9**(1-2) 91-112 (Feb 1996), 7T91
Sparse-matrix generation of Jacobians for the object-oriented modeling of multibody systems, Nonlinear Dyn **9**(1-2) 185-204 (Feb 1996), 7A92
Symbolic computations in flexible multibody systems, Nonlinear Dyn **9**(1-2) 147-163 (Feb 1996), 7A93
Use of linear graph theory in multibody system dynamics, Nonlinear Dyn **9**(1-2) 73-90 (Feb 1996), 7A94
Power flow between three series coupled oscillators, J Sound Vib **189**(2) 215-229 (Jan 1996), 7A127
Validation of flexible beam elements in dynamics programs, Nonlinear Dyn **9**(1-2) 21-36 (Feb 1996), 7A144
Impact damper with granular materials for multibody system, J Pressure Vessel Tech **118**(1) 95-103 (Feb 1996), 7A211
Impact dynamics of multibody systems with frictional contact using joint coordinates and canonical equations of motion, Nonlinear Dyn **9**(1-2) 53-71 (Feb 1996), 7A249
Dynamics of multibody systems from a continuum view (German), Z Angew Math Mech **76**(1) 15-33 (1996), 8A71
Energy decaying scheme for nonlinear elastic multibody systems, Comput Struct **59**(2) 317-331 (Apr 1996), 8A72
Modeling procedure for linearized motions of tree structured multibodies - I: Derivation of the equations of motion, Comput Struct **59**(2) 347-360 (Apr 1996), 8A73
Modeling procedure for linearized motions of tree structured multibodies - 2: Design of an active spray boom suspension on a spraying-machine, Comput Struct **59**(2) 361-375 (Apr 1996), 8A74
Symbolic generation of large multibody system dynamic equations using a new semi-explicit Newton-Euler recursive scheme, Arch Appl Mech **66**(3) 187-199 (Jan 1996), 8A75
Torsional spring-like beam element for the dynamic analysis of flexible multibody systems, Int J Numer Methods Eng **39**(7) 1079-1096 (Apr 1996), 9A85
Stabilizing feedback laws for internally actuated multibody systems in space, Nonlinear Anal **26**(9) 1461-1479 (May 1996), 9T138
Rough balanced collisions, J Appl Mech **63**(1) 168-172 (Mar 1996), 9A284
Effective method for modeling stiction in multibody dynamic systems, J Dyn Syst Meas Control **118**(1) 172-176 (Mar 1996), 9A976
Load sway control of overhead cranes with load hoisting via stability analysis, JSME Int J Ser C **39**(1) 34-40 (Mar 1996), 9A1006
Modern Astrodynamics: Fundamentals and Perturbation Methods (Princeton UP, Princeton NJ, 1996) 10R7
Dynamics of structures undergoing gross motion and nonlinear deformations: A multibody approach, Comput Struct **59**(6) 1001-1012 (Jun 1996), 10A79
Geometrically nonlinear formulation of flexible multibody systems in terms of beam elements: Geometric stiffness, Comput Struct **59**(6) 1039-1050 (Jun 1996), 10A80
Homoclinic orbits in the dynamics of resonantly-driven coupled pendula, Z Angew Math Phys **47**(2) 221-264 (Mar 1996), 10A81
Impact on planar kinematic chain of rigid bodies: Application to movements of anthropomorphic dummy in a crash, Int J Impact Eng **18**(5) 505-516 (Jul 1996), 10A82
Operation of a four-bar mechanism above several critical speeds, J Vib Acoust **118**(2) 198-203 (Apr 1996), 10A83

Complementarity problems of stick-slip vibrations, J Vib Acoust 118(2) 177-183 (Apr 1996), 10A133
Multibody dynamics incorporating deployment of flexible structures, J Vib Acoust 118(2) 237-241 (Apr 1996), 10A952
Dynamics of multibody systems containing dependent unilateral constraints with friction, J Vib and Control 2(2) 161-192 (May 1996), 10A960
IUTAM Symposium on Optimization of Mechanical Systems - Proc of IUTAM Symp, Stuttgart, Germany, March 1995 (Kluwer, MA, 1995) 11N15
Universal formulation for the N-body problem, J Guidance Control Dyn 19(4) 921-928 (Aug 1996), 12A96

150G. Deformable body dynamics

Geometric stiffening in multibody dynamics formulations, J Guidance Control Dyn 18(4) 882-890 (Aug 1995), 1A83
Hybrid equations of motion for flexible multibody systems using quasicoordinates, J Guidance Control Dyn 18(4) 678-688 (Aug 1995), 1A89
Trends in Control: A European Perspective - Communications and Control Eng Series (Springer-Verlag, New York, 1995) 2N19
Trajectory tracking of a spatial flexible link manipulator using an inverse dynamics method, Mech Machine Theory 30(8) 1113-1126 (Nov 1995), 2A69
Motion of a rigid body with flexible rods that admits a symmetry group, Mech Solids 30(1) 1-9 (1995), 3AR5
Novel approach to the dynamic analysis of highly deformable bodies, Comput Struct 58(1) 155-172 (Jan 1996), 3A86
Stabilization of a programmed path of a robot with absolutely rigid and elastic members, Mech Solids 30(1) 31-39 (1995), 3A415
Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), J Vib Eng 8(3) 212-218 (Sep 1995), 4A108
Generalization of the Wittrick-Williams formula for counting modes of flexible structures, J Guidance Control Dyn 18(6) 1410-1415 (Dec 1995), 4T109
Modeling of translational motion between two flexible bodies connected via three points, J Guidance Control Dyn 18(6) 1392-1397 (Dec 1995), 4A110
Localization and the effects of irregularities in structures, Appl Mech Rev 49(2) 55-135 (Feb 1996), 4A220
Symbolic modeling of a flexible manipulator via assembling of its generalized Newton Euler model, Mech Machine Theory 31(1) 45-56 (Jan 1996), 4A404
Geometrically nonlinear formulations of beams in flexible multibody dynamics, J Vib Acoust 117(4) 501-509 (Oct 1995), 5A77
Kinematical conditions for steady motions of strings and rods, J Appl Mech 62(3) 820-822 (Sep 1995), 5T80
Analytical solution for dynamic analysis of a flexible L-shaped structure, J Guidance Control Dyn 19(1) 248-250 (Feb 1996), 6T85
Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, Z Angew Math Mech 75(12) 883-888 (1995), 6A89
Analysis of the dereverberated transfer function in finite dimensions, J Guidance Control Dyn 19(1) 91-98 (Feb 1996), 6A267
Dynamical behavior of a two-member system with rolling at critical and nearly critical velocities, Mech Solids 30(4) 28-33 (1995), 7A85
One method for efficient dynamic modeling of flexible manipulators, Mech Machine Theory 31(3) 297-315 (Apr 1996), 7A435
Steady motions of a drawn cable, J Appl Mech 63(1) 180-189 (Mar 1996), 9A139
Dynamic FE analysis of a nonlinear beam subjected to a moving load, Int J Solids Struct 33(12) 1673-1688 (May 1996), 9A566
Lower order critical operating speeds indentification for flexible linkage mechanisms (Chinese), J Vib Eng 9(1) 99-104 (Mar 1996), 10A84
Model of motion of a deformable wheel, Mech Solids 30(6) 16-22 (1995), 10T85
Resonance conditions and deformable body coordinate systems, J Sound Vib 192(1) 389-398 (Apr 1996), 10T86
Placement of passive and vibroactive objects on a floor, J Machinery Manuf Reliab 6 15-18 (1995), 10A154
Approximate probability estimation of aircraft large deviation trajectory parameters under random perturbation, TsAGI 1(2) 125-143 (1994), 10T1203
Dynamics of Structures: Theory and Applications to Earthquake Engineering - Int Series in Civil Eng and Eng Mech (Prentice Hall, Upper Saddle River, NJ, 1995) 11R11
Mixed-interface substructures for dynamic analysis of flexible multibody systems, Eng Struct 18(7) 495-503 (Jul 1996), 11A78
Wave approach for control of orientation and vibration of a flexible structure, J Guidance Control Dyn 19(3) 578-583 (Jun 1996), 11A338
Dynamics of plane motion of an elastic rod, J Appl Mech 63(2) 392-398 (Jun 1996), 12A97
Lyapunov analysis of the approximate motion equations of flexible structures, Syst Control Lett 28(1) 31-41 (Jun 1996), 12A98

150H. Stability of motion

Global asymptotic stabilization of the spinning top, Optimal Control Appl Methods 16(3) 189-215 (Sep 1995), 1A91
Directional stability of truck-dolly-trailer system, Vehicle Syst Dyn 24(8) 617-637 (Sep 1995), 1A408
Regular and Chaotic Motions of Rigid Bodies - (Regulaere und chaotische Bewegung starrer Koerper) (German) (BG Teubner, Stuttgart, 1995) 2R9
Analysis of modified railway passenger truck designs to improve lateral stability-curving behavior compatibility, Proc Inst Mech Eng F 209(F1) 49-59 (1995), 2A70
Stability theory for dissipatively perturbed Hamiltonian systems, Commun Pure Appl Math 48(6) 583-610 (Jun 1995), 2A71
Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, Mech Solids 30(1) 23-30 (1995), 3A80
Stability of a plane periodic motion of a rigid body between two parallel walls, Mech Solids 30(1) 20-22 (1995), 3A87
Stability of motion of 3D halo orbits, J Guidance Control Dyn 18(5) 1119-1125 (Oct 1995), 3T88
Asymptotic analysis of a class of 3 dof Hamiltonian systems near stable equilibria, Physica D 88(2) 87-115 (Nov 1995), 4A111
Robustness of dynamical systems to a class of nonsmooth perturbations, Nonlinear Anal 26(2) 351-361 (Jan 1996), 4T112
Stability for the equilibrium state of Chaplygin's systems, Appl Math Mech 16(7) 635-642 (Jul 1995), 4A113
Effect of damping forces on the postcritical behavior of substantially nonpotential systems, Mech Solids 30(2) 147-155 (1995), 5A81
Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, J Trib 117(3) 379-384 (Jul 1995), 5A82
Journal orbits and their stability for rigid unbalanced rotors, J Trib 117(4) 709-716 (Oct 1995), 5A143
Eccentric operation and blade-loss simulation of a rigid rotor supported by an improved squeeze film damper, J Trib 117(3) 490-497 (Jul 1995), 5A817
Dynamics of a self-balancing unit in a multi-disk rotor, Mech Solids 30(3) 41-46 (1995), 6T75
Rotation of an axisymmetric rigid body with biharmonic characteristic of the restoring torque, Mech Solids 30(3) 15-20 (1995), 6A79
Invariant manifolds and their stability in a 3D measure-preserving mapping systems, Appl Math Mech 16(10) 943-950 (Oct 1995), 6A86
Nonlinear equation instability boundaries in flexible mechanisms, Mech Machine Theory 31(2) 215-227 (Feb 1996), 6A87
Periodic motions of autonomous systems in the vicinity of a stable integral manifold, Mech Solids 30(3) 21-29 (1995), 6A88
Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, Z Angew Math Mech 75(12) 883-888 (1995), 6A89
Stability of steady-state rotor motions in elastic bearings, Mech Solids 30(3) 47-56 (1995), 6T90
Three-dimensional motion of a solid in an ideal fluid under the action of a follower load, Mech Solids 30(3) 66-70 (1995), 6T91
Dynamical behavior of a two-member system with rolling at critical and nearly critical velocities, Mech Solids 30(4) 28-33 (1995), 7A85
Influence of external and internal friction on the stability of vertical rotation of a rigid body, Mech Solids 30(4) 10-19 (1995), 7A86
Divergent bifurcations in dynamic systems with rolling, Prikl Mekh (Appl Mech) 30(12) 86-93 (1994), 7A95
Movement stability of transport vehicles with regard for vibrations of control wheel module (Russian), Prikl Mekh (Appl Mech) 31(4) 86-93 (1995), 7A96
Stability of weakly-connected nonlinear systems (Russian), Prikl Mekh (Appl Mech) 31(4) 73-79 (1995), 7A97
Identification of the model of noncontact gyro drift on the basis of bench test results, Mech Solids 30(4) 1-9 (1995), 7A99
Smart Structures, Nonlinear Dynamics, and Control (Prentice Hall, Upper Saddle River, NJ, 1995) 8R6
Liapunov stability of force-controlled grasps with a multi-fingered hand, Int J Robotics Res 15(2) 137-154 (Apr 1996), 8A353
Aggregation forms under study of motion stability of large-scale systems - Stability criteria: Survey, Prikl Mekh (Appl Mech) 31(9) 3-14 (1995), 9A140
Lipschitz stability and almost periodicity in dynamical systems, Nonlinear Anal 26(11) 1811-1821 (Jun 1996), 9T141
Local stability of gyroscopic systems near vanishing eigenvalues, J Appl Mech 63(1) 116-120 (Mar 1996), 9A142
Stability and vibration of a rotating circular plate subjected to stationary in-plane edge loads, J Appl Mech 63(1) 121-127 (Mar 1996), 9A143
Stability of large scale systems and the method of cone-valued Lyapunov functions, Nonlinear Anal 26(10) 1613-1620 (May 1996), 9T144
Stability of vertical oscillations in the system of electrodynamic-inspension with discrete wheelspan, Prikl Mekh (Appl Mech) 31(7) 88-93 (1995), 9A145
Codimension two bifurcations and Hopf bifurcations of an impacting vibrating system, Appl Math Mech 17(1) 65-75 (Jan 1996), 9A167
Load sway control of overhead cranes with load hoisting via stability analysis, JSME Int J Ser C 39(1) 34-40 (Mar 1996), 9A1006
Dynamical Systems: Stability, Symbolic Dynamics, and Chaos (CRC Press, Boca Raton FL, 1995) 10R6
Analysis of the asymptotic stability region boundary for a dynamic system, TsAGI 1(1) 70-81 (1994), 10A87
Liapunov-Floquet transformation: Computation and applications to periodic systems, J Vib Acoust 118(2) 209-219 (Apr 1996), 10A88
Modification of an extremum-based stability criterion for synchronous motions, Mech Solids 30(5) 47-52 (1995), 10A89
Influence of vibration on the wave pattern in a ring resonator, Mech Solids 30(5) 22-29 (1995), 10A91
Bifurcation and stability analysis for a non-smooth friction oscillator, Arch Appl Mech 66(5) 301-314 (Apr 1996), 10A95
Parametric resonance and nonlinear vibrations of a heavy rigid body in a neighborhood of its planar rotations, Mech Solids 30(5) 30-40 (1995), 10A113
Some aspects of destabilization in reversible dynamical systems with application to follower forces, Nonlinear Dyn 10(1) 63-87 (May 1996), 10T115
Analysis of fluidelastic instability of air-water mixture, J Pressure Vessel Tech 118(2) 188-193 (May 1996), 10A299
Synchronization in the Lorenz system: Stability and robustness, Nonlinear Dyn 10(1) 89-103 (May 1996), 10T394
Fuselage state feedback for acromechanical stability augmentation of a bearingless main rotor, J Am Helicopter Soc 41(2) 85-93 (Apr 1996), 10A437
Decentralized model for adaptive multimachine power system stabilizers design, Arab J Sci Eng 20(4B) 763-774 (Oct 1995), 11A79
Evaluating the dynamic performance of multimachine power systems with VAR compensation using synchronizing and damping torques, Arab J Sci Eng 20(4B) 751-762 (Oct 1995), 11A80
Asymptotically stable robust control of robust manipulators, Mech Machine Theory 31(5) 607-618 (Jul 1996), 11A389
Universal formulation for the N-body problem, J Guidance Control Dyn 19(4) 921-928 (Aug 1996), 12A96
Dynamic response and stability of a rotor-support system with nonsymmetric bearing clearances, Mech Machine Theory 31(6) 781-798 (Aug 1996), 12A99
Geometric approach to global-stability problems, SIAM J Math Anal 27(4) 1070-1083 (Jul 1996), 12A100
Instability of equilibrium of non-holonomic systems with a non-analytic potential, Int J Non-Linear Mech 31(4) 459-463 (Jul 1996), 12A101
Local stability analysis of the approximate harmonic balance solutions, Nonlinear Dyn 10(2) 105-133 (Jun 1996), 12A102
Stability characteristics of rotating systems with journal bearings on viscoelastic support, Mech Machine Theory 31(6) 771-779 (Aug 1996), 12A103

150I. Gyrodynamics

Global asymptotic stabilization of the spinning top, Optimal Control Appl Methods 16(3) 189-215 (Sep 1995), 1A91
Minimum-time reorientation of two-dof gyroscope, J Guidance Control Dyn 18(4) 782-791 (Aug 1995), 1A92
Two misconceptions in the theory of inertial navigation systems, J Guidance Control Dyn 18(4) 908-911 (Aug 1995), 1T93
Motion of a rigid body with flexible rods that admits a symmetry group, Mech Solids 30(1) 1-9 (1995), 3AR5
Integrally spherical gyro rotors, Mech Solids 30(1) 10-14 (1995), 3A89
Nutational stability and passive control of spinning rockets with internal mass motion, J Guidance Control Dyn 18(5) 1197-1203 (Oct 1995), 3T90
Spinup dynamics of gyrostats, J Guidance Control Dyn 18(5) 1177-1183 (Oct 1995), 3A91
Sufficient conditions of existence of some classes of asymptotic precession motions of a gyrostat about a fixed point (Russian), Prikl Mekh (Appl Mech) 30(10) 92-96 (1994), 3A92
Elliptical orbit with variable angular momentum, J Guidance Control Dyn 18(5) 1213-1215 (Oct 1995), 3T230
Motion of a rigid body with an attached spring-mass damper, J Guidance Control Dyn 18(6) 1404-1409 (Dec 1995), 4A114
Possibility of gyroscopic stabilization of the rotation of a system of rigid bodies, J Appl Math Mech 59(3) 361-367 (1995), 4A115
Dynamics of rotor shaft system on flexible supports with gyroscopic effects, Mech Res Commun 22(6) 541-545 (Dec 1995), 4T185
Magnetic precession and product-of-inertia nutation damping of bias momentum satellites, J Guidance Control Dyn 18(6) 1321-1328 (Dec 1995), 4A298
Algorithms of analytical compensation for systematic drifts of a noncontact gyro, Mech Solids 30(2) 1-6 (1995), 5A83
Effect of thermoelastic material behavior on the dynamics of a hemispherical resonator gyro, Mech Solids 30(2) 15-22 (1995), 5A84
Nutation of a solid in a noncontact suspension, Mech Solids 30(2) 23-27 (1995), 5A85
Time-frequency analysis of a non-uniformly sampled signal with the Wigner-Ville transform: Application to the study of the gyroscopic motion of a projectile, Mech Syst Signal Processing 9(6) 589-600 (Nov 1995), 5A86
Control of a multiunit power gyro system with minimal redundancy, Mech Solids 30(3) 1-7 (1995), 6A92
Double averaging approach to the study of spinup dynamics of flexible satellites, J Guidance Control Dyn 19(1) 54-59 (Feb 1996), 6A93
Global stabilization of the spinning top with mass imbalance, Dyn Stability Syst 10(4) 339-365 (1995), 6A94
Influence of temperature on the drift of Gyroscope, Trans Can Soc Mech Eng 19(4) 363-382 (1995), 6A95
Stability of rate gyro in a vehicle with uncertian angular velocity and acceleration, Trans Can Soc Mech Eng 19(4) 417-433 (1995), 6A96
Autocompensation of errors of the gyroscope integration of linear accelerations, Prikl Mekh (Appl Mech) 31(4) 79-85 (1995), 7A98
Identification of the model of noncontact gyro drift on the basis of bench test results, Mech Solids 30(4) 1-9 (1995), 7A99
Necessary conditions of partial controllability of the system solid-GyrodyneGuz IA: Study of the composite resistance under compression along two parallel structural cracks on the interfaces, Prikl Mekh (Appl Mech) 30(11) 90-96 (1994), 7A100
Formulation of stability conditions for systems containing driven rotors, J Guidance Control Dyn 19(2) 305-308 (Apr 1996), 8A151
Euler-Poisson equations and existence of quasi-periodic motions of heavy tops, Physica D 91(4) 406-412 (Apr 1996), 9A146
Structural optimization of vibroisolated system for ground pendulum gyrocompass with consideration of dynamics of its sensitive element, Prikl Mekh (Appl Mech) 31(8) 87-96 (1995), 9A147
Coupled electromechanical model of an imperfect piezoelectric vibrating cylinder gyroscope, J Intelligent Mat Syst Struct 7(1) 44-53 (Jan 1996), 9A183
Electric model of a hemispherical resonator gyro, Mech Solids 30(5) 10-21 (1995), 10A90
Influence of vibration on the wave pattern in a ring resonator, Mech Solids 30(5) 22-29 (1995), 10A91
Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, J Vib Eng 9(1) 64-68 (Mar 1996), 10A92
Stability of Euler, Lagrange and Kovalevskaya gyros in a Newtonian central force field with second order terms, Trans Can Soc Mech Eng 20(1) 41-55 (1996), 10A93
Dynamic analysis of multi-rotor systems with nonlinear dampers by using impedance matching method (Chinese), J Vib Eng 9(1) 60-63 (Mar 1996), 10A227
Electrostatic suspension system for gyroscopes with minimum electrical disturbing torque via nonlinear pre-compensation, Proc Inst Mech Eng J Aerospace Eng 210(G2) 123-127 (1996), 11A81
Spinup maneuver and nonlinear active nutation damping, J Guidance Control Dyn 19(3) 704-706 (Jun 1996), 11T82
Detumbling and reorienting underactuated rigid spacecraft, J Guidance Control Dyn 19(3) 708-713 (Jun 1996), 11T233
Synchronization of twin-gyro precession under cross-coupled adaptive feedforward control, J Guidance Control Dyn 19(3) 534-539 (Jun 1996), 11A334
Arnoldi reduction algorithm for large scale gyroscopic eigenvalue problem, Acta Mech Solida Sinica 9(2) 95-103 (1996), 12A104
Stabilization and optimality results for the attitude control problem, J Guidance Control Dyn 19(4) 772-779 (Aug 1996), 12A391

150K. Nonlinear dynamics (incl chaos, bifurcation, fractals)

Perturbation Methods in the Computer Age (DCW Industries Inc, 1995) 1R6
Deterministic Chaos: An introduction, Third Augmented Edition (VCH Publ, New York, 1995) 1N9
Bifurcation analysis of a molecular model for nematic polymers in shear flows, J Non-Newtonian Fluid Mech 59(1) 73-91 (Aug 1995), 1A94
Dynamic bifurcation in Hamiltonian systems with 1 dof, SIAM J Appl Math 55(4) 1117-1133 (Aug 1995), 1A95
General method for a mean square estimation of nonlinear oscillator amplitude subjected to random excitations, Facta Series Mech Auto Control Robotic 1(3) 293-304 (1993), 1A96
Nonlinear vibrations of parametrically self-excited system with two dof, J Theor Appl Mech 33(3) 643-665 (1995), 1A97
Observations of invariant structures in the chaotic response of Lorenz and other systems, J Sound Vib 185(2) 201-206 (Aug 1995), 1A98
Periodic oscillations of a system of coupled oscillators near resonance, SIAM J Math Anal 26(5) 1257-1283 (Sep 1995), 1A99
Possible route to chaos for the Korteweg-deVries equation, J Hydrodyn 7(2) 17-22 (1995), 1T100
Remark on metric analysis of reconstructed dynamics from chaotic time series, Physica D 85(4) 485-495 (Aug 1995), 1A101
Remarks on period doubling in systems with symmetry, Z Angew Math Phys 46(4) 566-579 (Jul 1995), 1A102
Second comparison of two higher order perturbation schemes, J Sound Vib 184(5) 907-928 (Aug 1995), 1A103
Solutions to a general forced nonlinear oscillations problem, J Sound Vib 185(2) 247-264 (Aug 1995), 1A104
Spatial bifurcations of interfacial waves when the phase and group velocities are nearly equal, J Fluid Mech 295 121-158 (Jul 1995), 1A105
Synchronization and chaotization in interacting dynamic systems, Appl Mech Rev 48(11) 733-752 (Nov 1995), 1A106
Dynamic modeling of a trailing wire towed by an orbiting aircraft, J Guidance Control Dyn 18(4) 875-881 (Aug 1995), 1A142
Chaotic vibration of a journal-bearing system, J Theor Appl Mech 33(3) 627-641 (1995), 1A943
Effect of torsion on the bifurcation structure of laminar flow in a helical square duct, J Fluids Eng 117(2) 242-248 (Jun 1995), 1A1057
Introduction to the Modern Theory of Dynamical Systems (Cambridge UP, New York, 1994) 2R7
Regular and Chaotic Motions of Rigid Bodies - (Regulaere und chaotische Bewegung starrer Koerper) (German) (BG Teubner, Stuttgart, 1995) 2R9
Chaos and direct numerical simulation in turbulence, Theor Comput Fluid Dyn 7(5) 363-395 (1995), 2A72
Chaos in rotors with slowly varying mass, J Sound Vib 185(5) 897-901 (Sep 1995), 2T73
Collapsing effects in numerical simulation of a class of chaotic dynamical systems and random mappings with a single attracting center, Physica D 86(4) 559-571 (Oct 1995), 2A74
Direct method for computation of simple bifurcations, J Comput Phys 121(2) 246-260 (Oct 1995), 2T75
Homoclinic and heteroclinic chaos in a triple-well oscillator, J Sound Vib 186(2) 269-278 (Sep 1995), 2A76
Proceedings of the conference on Chaos, order and patterns: Aspects of nonlinearity - The "Gran Finale," held at Villa Olmo, Como Italy, September 25-30, 1993, Physica D 86(1-2) 1-347 (Sep 1995), 2T77
Removal, suppression, and control of chaos by nonlinear design, Appl Mech Rev 48(12) 795-808 (Dec 1995), 2A272
Investigation of some pattern selection issues in the rising plane Taylor bubble problem, J Comput Phys 121(1) 129-141 (Oct 1995), 2A979
Bifurcation for quasi-variational inequalities of reaction-diffusion type, Stability Appl Anal Continuous Media 3(2) 111-127 (Jun 1993), 2T1186
Bifurcation and chaos in a bilinear constrained column - Part I: Stability analysis and nonlinear unperturbed dynamics, Eur J Mech A 14(5) 773-788 (1995), 3A93
Bifurcation and chaos in a bilinear constrained column - Part II: Chaotic dynamics, Eur J Mech A 14(5) 789-806 (1995), 3A94
Control of chaos: Higher periodic orbits, Dyn Control 5(4) 365-387 (Oct 1995), 3A95
Controlling chaos of a periodically forced nonsmooth mechanical system, Acta Mech Sinica 11(3) 251-258 (1995), 3A96
Convective Coupled Map for simulating spatiotemporal chaos in flows, Acta Mech Sinica 11(1) 1-7 (1995), 3A97
Direct methods for constructing nonlinear normal modes of continuous systems, J Vib and Control 1(4) 389-430 (Nov 1995), 3A98
Dynamos in weakly chaotic 2D flows, Geophys Astrophys Fluid Dyn 79(1-4) 239-257 (Aug 1995), 3T99
Hopf bifurcation of mechanically and electrically coupled nonlinear dynamical systems (Chinese), J Vib Eng 8(2) 150-155 (Jun 1995), 3A100
Shape and dimension of the Lorenz attractor, Dyn Stability Syst 10(3) 255-268 (1995), 3A101
Singular perturbation theory for homoclinic orbits in a class of near-integrable dissipative systems, SIAM J Math Anal 26(6) 1611-1643 (Nov 1995), 3A102
Weak coupling of strongly nonlinear, weakly dissipative identical oscillators, Dyn Stability Syst 10(3) 203-218 (1995), 3A103
Whiskered tori with prefixed frequencies and Lyapunov spectrum, Dyn Stability Syst 10(3) 269-308 (1995), 3A104
Multifractals in elastic tube vibrations due to internal flow, J Fluids Struct 9(7) 787-799 (Oct 1995), 3T214
Harmonic balance in delay-differential equations, J Sound Vib 186(4) 649-656 (Oct 1995), 3A319
Fractal property of matrix cracking in GFRP cross-ply laminates, JSME Int J Ser A 38(4) 446-452 (Oct 1995), 3A707
Painleve paradoxes revisited, Mech Solids 30(1) 15-19 (1995), 3A826
Exploration of Chaos (Elsevier Science, Netherlands, 1994) 4R3
Asymptotic analysis of a class of 3 dof Hamiltonian systems near stable equilibria, Physica D 88(2) 87-115 (Nov 1995), 4A111
Robustness of dynamical systems to a class of nonsmooth perturbations, Nonlinear Anal 26(2) 351-361 (Jan 1996), 4T112
Alternative approaches to Melnikov analysis for forced oscillators, J Sound Vib 187(5) 815-824 (Nov 1995), 4A116
Bifurcation of swirl in liquid cones, J Fluid Mech 300 169-205 (Oct 1995), 4A117
Comparison of direct-perturbation methods with discretization-perturbation methods for nonlinear vibrations, J Sound Vib 186(5) 837-845 (Oct 1995), 4T118
Criteria for a general continuous self-map to have chaotic sets, Nonlinear Anal 26(2) 329-334 (Jan 1996), 4T119
Dynamics of a multi-dof beam system with discontinuous support, Nonlinear Dyn 8(4) 453-466 (Dec 1995), 4A120
Experimental study of bifurcation, chaos, and dimensionality in a system forced through a bifurcation parameter, Nonlinear Dyn 8(4) 467-489 (Dec 1995), 4A121
Nonlinear normal modes, invariance, and modal dynamics approximations of nonlinear systems, Nonlinear Dyn 8(3) 315-346 (Oct 1995), 4A122
Parametric random excitation of nonlinear coupled oscillators, Nonlinear Dyn 8(3) 385-413 (Oct 1995), 4A123
Pseudo-fault induction in engineering structure: Multi-input multi-output control, Nonlinear Dyn 8(3) 367-384 (Oct 1995), 4A124
Quasi-steady analysis of one dof galloping with combined translational and rotational effects, Nonlinear Dyn 8(4) 435-451 (Dec 1995), 4A125
Quasiperiodic oscillations in robot dynamics, Nonlinear Dyn 8(4) 513-528 (Dec 1995), 4A126
Routes to escape from an energy well, J Sound Vib 187(1) 133-144 (Oct 1995), 4A127
Symmetry, sidewalls, and the transition to chaos in baroclinic systems, J Fluid Mech 300 311-338 (Oct 1995), 4A128
Self-excited system vibrations with parametric and external excitations, J Sound Vib 187(4) 595-607 (Nov 1995), 4A132
Nonlinear damped vibrations of simply-supported rectangular sandwich plates, Nonlinear Dyn 8(4) 417-433 (Dec 1995), 4A170
Effect of static loading on the nonlinear vibrations of a three-time redundant portal frame: Analytical and numerical studies, Nonlinear Dyn 8(3) 347-366 (Oct 1995), 4A188
Impact dampers for nonlinear vibrating systems., J Sound Vib 187(3) 403-420 (Nov 1995), 4A217
Bifurcation of steady gravity water waves in (R,S) parameter space, J Fluid Mech 302 287-305 (Nov 1995), 4A262
Geometric focusing of internal waves, J Fluid Mech 300 1-41 (Oct 1995), 4A277
Resonance control of aircraft instabilities by smooth and continuous feedback, J Guidance Control Dyn 18(6) 1298-1304 (Dec 1995), 4T378
Recurrent artificial neural network simulation of a chaotic system without training, J Guidance Control Dyn 18(6) 1463-1466 (Dec 1995), 4T390
Advances in Nonlinear Dynamics: Methods and Applications (Kluwer, MA, 1995) 5N9
Self-excited oscillator with increasing coefficient of friction (German), Z Angew Math Mech 75(11) 811-820 (1995), 5A73
Analysis of a system with complex excitation of parametric oscillations, Mech Solids 30(2) 33-40 (1995), 5A87
Bifurcation analysis via harmonic balance in periodic systems with feedback structure, Int J Control 62(6) 1507-1515 (Dec 1995), 5T88
Chaos in an anharmonic oscillator, J Austral Math Soc B 37(2) 186-207 (Oct 1995), 5A89
Complex dynamics and multistability in a damped harmonic oscillator with delayed negative feedback, Chaos 5(4) 640-645 (Dec 1995), 5A90
Conservation laws and reduction to quadratures of the generalized time-dependent Duffing equation, Int J Non-Linear Mech 30(6) 783-792 (Nov 1995), 5A91
Periodic solutions of first order singular Hamiltonian systems, Nonlinear Anal 26(4) 691-706 (Feb 1996), 5T92
Third-order resonance in a nearly Hamiltonian system with 1-dof, Mech Solids 30(2) 41-48 (1995), 5A93
Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), Proc JSCE 525(I-33) 181-190 (Oct 1995), 5A127
Unwrapping the phase response functions for nonlinear systems, Mech Syst Signal Processing 9(6) 657-673 (Nov 1995), 5A310
Controlling chaos in a switched arrival system, Syst Control Lett 26(5) 335-339 (Dec 1995), 5A356
When is cutting chaotic?, J Sound Vib 188(1) 75-83 (Nov 1995), 5A575
Analysis of the dynamics of nonlinear mechanical systems subjected to additive and parametric nonstationary random perturbations, J Machinery Manuf Reliab 2 9-15 (1995), 5T851
Stochastic analysis of unsaturated transport in soils with fractal log-conductivity distribution, Stochastic Hydrology Hydraul 9(4) 297-323 (Dec 1995), 5A1337
Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, Z Angew Math Mech 75(12) 883-888 (1995), 6A89
Analysis of the separatrix map in Hamiltonian systems, Physica D 89(3-4) 315-328 (Jan 1996), 6A97
Application of interpolated cell mapping to an analysis of the Lorenz equations, J Sound Vib 188(2) 209-226 (Nov 1995), 6A98
Chaos in a variable mass relaxation oscillator model for the leaky tap, Physica D 89(1-2) 151-168 (Dec 1995), 6A99
Chaotic dynamics of the partially follower-loaded elastic double pendulum, J Sound Vib 188(3) 385-405 (Dec 1995), 6A100
Generic, hard transition to chaos, Physica D 89(1-2) 204-221 (Dec 1995), 6A101
Global dynamics of parametrically excited nonlinear reversible systems with nonsemisimple 1:1 resonance, Physica D 89(1-2) 43-70 (Dec 1995), 6A102
Grazing orbits and related local bifurcations of an oscillator with continuous and piecewise-linear restoring force, Shock Vib 3(1) 11-16 (1996), 6A103
Number of limit cycles for the generalized mixed Rayleigh-Lienard oscillator, J Sound Vib 188(2) 298-300 (Nov 1995), 6T104
Reliability analysis of single-dof nonlinear systems with random parameters (Chinese), J Vib Eng 8(4) 356-362 (Dec 1995), 6A105
Robust estimation of tangent maps and Liapunov spectra, Physica D 89(3-4) 287-305 (Jan 1996), 6A106
Singular trajectories of nonlinear oscillatory systems, Mech Solids 30(3) 30-40 (1995), 6A107
Spatial inhomogeneity of periodic and chaotic attractors of a driven damped nonlinear Schrodinger equation, Acta Phys Polonica A 88(6) 1067-1072 (Dec 1995), 6A108
Statistical framework for testing chaotic dynamics via Lyapunov exponents, Physica D 89(3-4) 261-266 (Jan 1996), 6A109
Successive homoclinic tangencies to a limit cycle, Physica D 89(1-2) 1-14 (Dec 1995), 6A110
Spectral analysis for systems with hysteretic restoring force, Mech Syst Signal Processing 10(1) 19-28 (Jan 1996), 6A275
Finite dimensional behavior for the derivative Ginzburg-Landau equation in two spatial dimensions, Physica D 89(1-2) 83-99 (Dec 1995), 6A516
Direct numerical simulations of 2D chaotic natural convection in a differentially heated cavity of aspect ratio 4, J Fluid Mech 304 87-118 (Dec 1995), 6A901
Nonlinear Oscillations - Wiley Classics Library Series (Wiley, New York, 1995) 7R5
Energy conserving co-rotational procedure for nonlinear dynamics with FEs, Nonlinear Dyn 9(1-2) 37-52 (Feb 1996), 7A35
Behavior of a nonlinear Hamiltonian system with 1 dof at the boundary of a parametric resonance domain, J Appl Math Mech 59(4) 541-551 (1995), 7A101
Bifurcation sets and catastrophes in multi-formities of stationary states of pneumonohoel machines under constant force effects (Russian), Prikl Mekh (Appl Mech) 31(3) 89-95 (1995), 7T102
Chaotic phenomena in the dynamic buckling of an elastic-plastic column under an impact, Nonlinear Dyn 9(3) 265-280 (Mar 1996), 7A103
Conjectures about phase turbulence in the complex Ginzburg-Landau equation, Physica D 90(1-2) 96-106 (Jan 1996), 7T104
Controlling turbulence in the complex Ginzburg-Landau equation, Physica D 90(1-2) 84-95 (Jan 1996), 7A105
Critical forcing for homoclinic and heteroclinic orbits of a rotating pendulum, J Sound Vib 189(2) 231-248 (Jan 1996), 7A106
Detecting low-dimensional chaos in time series of finite length generated from discrete parameter processes, Physica D 90(1-2) 31-39 (Jan 1996), 7A107
Energy method for computing periodic solutions of strongly nonlinear systems - I: Autonomous systems, Nonlinear Dyn 9(3) 223-247 (Mar 1996), 7A108
Generalized autoregression and the analysis of dynamical processes, Appl Math Model 20(2) 152-161 (Feb 1996), 7A109
Nonlinear oscillations and chaotic motions in a road vehicle system with driver steering control, Nonlinear Dyn 9(3) 281-304 (Mar 1996), 7A110
Nonlinear response of two disordered pendula, J Sound Vib 190(1) 65-76 (Feb 1996), 7A111
Phase portraits of the Lorenz system for large Rayleigh numbers, Mech Solids 30(4) 20-27 (1995), 7A112
Problem of a pendulum with an oscillating point of suspension, J Appl Math Mech 59(4) 563-570 (1995), 7A113
Problems of the motion of a pendulum when there are horizontal vibrations of the point of suspension, J Appl Math Mech 59(4) 553-561 (1995), 7A114
Simple way to compute the existence region of 1D chaotic attractors in 2D-maps, Physica D 90(3) 235-241 (Feb 1996), 7A115
Study of chaos in Hamiltonian systems via convergent normal forms, Physica D 90(1-2) 9-30 (Jan 1996), 7A116
Topological invariance of Lyapunov exponents in embedded dynamics, Physica D 90(1-2) 40-55 (Jan 1996), 7A117
Wada basin boundaries and basin cells, Physica D 90(3) 242-261 (Feb 1996), 7A118
Zones of chaotic behavior in the parametrically excited pendulum, J Sound Vib 189(1) 142-147 (Jan 1996), 7A119
Bifurcations and stability of amplitude modulated planar oscillations of an orbiting string with internal resonances, Nonlinear Dyn 9(3) 305-325 (Mar 1996), 7A148
Global attractors for the periodic initial value problem for a coupled nonlinear wave equation, Math Methods Appl Sci 19(2) 131-144 (Jan 1996), 7A264
Nonlinear dynamics of an articulated tower in the ocean, J Sound Vib 190(1) 77-103 (Feb 1996), 7A974
Chaotic Behavior of Deterministic Dissipative Systems (Cambridge UP, New York, 1995) 8R3
Introduction to Nonlinear Science (Cambridge UP, New York, 1995) 8R5
Smart Structures, Nonlinear Dynamics, and Control (Prentice Hall, Upper Saddle River, NJ, 1995) 8R6
Area preserving nontwist maps: Periodic orbits and transition to chaos, Physica D 91(1-2) 1-23 (Mar 1996), 8A76
Asymptotic solution of a class of nonlinear non-autonomous systems with large damping under multiple external periodic forces, J Sound Vib 190(4) 611-627 (Mar 1996), 8A77
Chaos in a pendulum with forced horizontal support motion: A tutorial, Chaos Solitons Fractals 7(1) 77-90 (Jan 1996), 8A78
Computational strategy for determining bifurcation diagrams for nonlinear oscillating systems, J Brazilian Soc Mech Sci 17(4) 344-352 (1995), 8A79
Convergence of attractors for the simplified magnetic Benard equations, European J Appl Math 7(1) 53-62 (Feb 1996), 8A80
Determination of global stability of steady-state solutions of a beam system with discontinuous support using manifolds, Chaos Solitons Fractals 7(1) 61-75 (Jan 1996), 8A81
Extending the limits of variational assimilation in nonlinear chaotic systems, Tellus 48A(1) 96-121 (Jan 1996), 8T82
Fractal dimension and intermittency coefficients of certain flow variables in Newtonian and non-Newtonian turbulent flows, J Non-Newtonian Fluid Mech 62(2-3) 207-224 (Feb 1996), 8A83
Geometry and chaos near resonant equilibria of 3-DOF Hamilton systems, Physica D 90(4) 319-365 (Feb 1996), 8A84
Global bifurcation characteristics of the forced van der Pol oscillator, Chaos Solitons Fractals 7(1) 3-19 (Jan 1996), 8A85
Heteroclinic bifurcations in flow-induced oscillations of cylinders, J Fluids Struct 10(1) 33-45 (Jan 1996), 8A86
Melnikov processes and noise-induced exits from a well, J Eng Mech 122(3) 263-270 (Mar 1996), 8A87

Multifractal analysis of lidar measured water vapor, Boundary-Layer Meteorol 76(4) 323-347 (Dec 1995), 8T88

Multiple periodic solutions of asymptotically linear Hamiltonian systems, Nonlinear Anal 26(8) 1437-1446 (Apr 1996), 8T89

Perturbation-incremental method for strongly nonlinear oscillators, Int J Non-Linear Mech 31(1) 59-72 (Jan 1996), 8A90

Second-order averaging and Melnikov analyses for forced nonlinear oscillators, J Sound Vib 190(4) 587-609 (Mar 1996), 8A91

Simple criterion for establishing an upper limit to the harmonic excitation level of the Duffing oscillator using the Volterra series, J Sound Vib 190(5) 751-762 (Mar 1996), 8A92

Nonlinear vibrations in the tethered satellite system-mission 1, J Guidance Control Dyn 19(2) 289-296 (Apr 1996), 8A152

Smoothing data with local instabilities for the identification of chaotic systems, Int J Control 63(3) 483-505 (Feb 1996), 8A269

Fluid flow in a medium distorted by a quasiconformal map can produce fractal boundaries, European J Appl Math 7(1) 1-10 (Feb 1996), 8A1311

Classical Mechanics (Wiley, New York, 1995) 9R2

Melnikov's method for rigid bodies subject to small perturbation torques, Arch Appl Mech 66(4) 215-230 (Mar 1996), 9A137

Advances of the harmonic balance method, J Sound Vib 191(2) 295-307 (Mar 1996), 9T148

Analysis of nonlinear oscillations by wavelet transform: Lyapunov exponents, Nonlinear Dyn 9(4) 333-347 (Apr 1996), 9A149

Analytical study of the bifurcations from an equilibrium point, J Sound Vib 191(2) 308-315 (Mar 1996), 9T150

Continuous control of chaos, Physica D 91(4) 340-348 (Apr 1996), 9A151

Convergence in the part metric for discrete dynamical systems in ordered topological cones, Nonlinear Anal 26(11) 1753-1777 (Jun 1996), 9T152

Exact stationary response solutions of nonlinear dynamic systems, Arch Appl Mech 66(4) 255-263 (Mar 1996), 9A153

Flow induced system with dry friction, Chaos Solitons Fractals 7(3) 353-363 (Mar 1996), 9A154

Forced nonlinear oscillations for the second order equations with semiquadratic potential, Nonlinear Anal 26(10) 1715-1731 (May 1996), 9T155

Fractal behavior of an asymmetric rigid block overturning due to harmonic motion of a tilted foundation, Chaos Solitons Fractals 7(2) 177-196 (Feb 1996), 9A156

Influences of fluidic interfaces on the formation of fine-scale structures by chaotic mixing, J Fluids Eng 118(1) 40-47 (Mar 1996), 9A157

Limit sets of dynamical systems on spheres, Nonlinear Anal 26(9) 1565-1572 (May 1996), 9T158

Nonlinear response of a family of simple 3D trusses, Int J Solids Struct 33(15) 2161-2176 (Jun 1996), 9A159

Obtaining initial parameter estimates for chaotic dynamical systems using linear associative memories, Appl Math Comput 76(2-3) 143-159 (May 1996), 9A160

Periodic response of piecewise nonlinear oscillators under harmonic excitation, J Sound Vib 191(1) 129-144 (Mar 1996), 9A161

Pseudolinear vibroimpact systems: Non-white random excitation, Nonlinear Dyn 9(4) 327-332 (Apr 1996), 9A162

Remarks on transitions order-chaos induced by the shape of the periodic excitation in a parametric pendulum, Chaos Solitons Fractals 7(3) 435-440 (Mar 1996), 9A163

Simple feedback control system: Bifurcations of periodic orbits and chaos, Nonlinear Dyn 9(4) 391-417 (Apr 1996), 9A164

Symmetry-breaking bifurcations in spherical Couette flow, J Fluid Mech 310 293-324 (Mar 1996), 9A165

Probabilistic analysis of a nonlinear pendulum, Acta Mech 115(1-4) 87-101 (1996), 9A172

Chaotic vibrations of a nonlinear viscoelastic beam, Chaos Solitons Fractals 7(2) 151-163 (Feb 1996), 9A182

Nonlinear dynamics of a rigid block on a rigid base, J Appl Mech 63(1) 55-61 (Mar 1996), 9A683

Bifurcations of incompressible flow through plane symmetric channel expansions, Comput Fluids 25(3) 335-351 (Mar 1996), 9A1147

Transitions to chaos in a forced jet: Intermittency, tangent bifurcations, and hysteresis, J Fluid Mech 311 37-71 (Mar 1996), 9A1159

Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, Nonlinear Dyn 9(4) 349-368 (Apr 1996), 9A1211

Dynamical Systems: Stability, Symbolic Dynamics, and Chaos (CRC Press, Boca Raton FL, 1995) 10R6

Vibrations of Elastic Plates: Linear and Nonlinear Dynamical Modeling of Sandwiches, Laminated Composites, and Piezoelectric Layers (Springer-Verlag, New York, 1996) 10R9

Homoclinic orbits in the dynamics of resonantly-driven coupled pendula, Z Angew Math Phys 47(2) 221-264 (Mar 1996), 10A81

Liapunov-Floquet transformation: Computation and applications to periodic systems, J Vib Acoust 118(2) 209-219 (Apr 1996), 10A88

Influence of vibration on the wave pattern in a ring resonator, Mech Solids 30(5) 22-29 (1995), 10A91

Analytical study of vibrating systems with strong nonlinearities by employing saw-tooth time transformations, J Sound Vib 192(1) 43-64 (Apr 1996), 10A94

Bifurcation and stability analysis for a non-smooth friction oscillator, Arch Appl Mech 66(5) 301-314 (Apr 1996), 10A95

Bifurcations and chaos in autonomous self-excited oscillators with impact damping, J Sound Vib 191(4) 539-562 (Apr 1996), 10A96

Chaos in planar oscillations of a Toda particle, Int J Eng Sci 34(5) 561-577 (Apr 1996), 10A97

Chaos of nonlinear vibration systems under parametric and external excitation (Chinese), J Vib Eng 9(1) 54-59 (Mar 1996), 10A98

Doubling bifurcations of destroyed T^2 tori, Physica D 92(3-4) 164-177 (May 1996), 10A99

Dynamics and stability state-space of a controlled inverted pendulum, Int J Non-Linear Mech 31(2) 215-227 (Mar 1996), 10A100

Dynamics of a bouncing ball with a sinusoidally vibrating table revisited, Nonlinear Dyn 10(1) 1-18 (May 1996), 10A101

Elliptic perturbation method for certain strongly nonlinear oscillators, J Sound Vib 192(2) 453-464 (May 1996), 10A102

Global bifurcations and chaos in a Van der Pol-Duffing-Mathieu system with three-well potential oscillator, Acta Mech Sinica 11(4) 357-372 (1995), 10A103

Global first harmonic bifurcation diagram for odd piecewise linear control systems, Dyn Stability Syst 11(1) 49-88 (1996), 10A104

Global stabilization of the oscillating eccentric rotor, Nonlinear Dyn 10(1) 49-62 (May 1996), 10A105

Jump phenomena resulting in unpredictable dynamics in the driven damped pendulum, Int J Non-Linear Mech 31(2) 167-174 (Mar 1996), 10A106

Kink-dynamics of the perturbed sine-Gordon equation, Wave Motion 23(2) 203-213 (Mar 1996), 10A107

Krylov-Bogoliubov and Galerkin methods for nonlinear oscillations, J Sound Vib 192(2) 413-438 (May 1996), 10A108

List of hodograph transformations exactly linearizable systems, Int J Non-Linear Mech 31(2) 117-127 (Mar 1996), 10A109

Motion of a rigid body with a rounded base due to harmonic excitation, Int J Non-Linear Mech 31(2) 175-191 (Mar 1996), 10A110

Nonstationary transition through resonance, Nonlinear Dyn 10(1) 31-48 (May 1996), 10A111

Numerical method for determining nonlinear normal modes, Nonlinear Dyn 10(1) 19-30 (May 1996), 10A112

Parametric resonance and nonlinear vibrations of a heavy rigid body in a neighborhood of its planar rotations, Mech Solids 30(5) 30-40 (1995), 10A113

Reduction of complex dynamical systems using principal interaction patterns, Physica D 92(1-2) 28-60 (Apr 1996), 10A114

Some aspects of destabilization in reversible dynamical systems with application to follower forces, Nonlinear Dyn 10(1) 63-87 (May 1996), 10T115

Response of a nonlinear system with strong damping to multifrequency excitations, Arch Appl Mech 66(5) 343-356 (Apr 1996), 10A136

Modeling chaotic motions of a string from experimental data, Physica D 92(3-4) 221-236 (May 1996), 10A163

Piecewise linear suspension bridge model: Nonlinear dynamics and orbit continuation, Dyn Stability Syst 11(1) 19-47 (1996), 10A212

Dynamic analysis of multi-rotor systems with nonlinear dampers by using impedance matching method (Chinese), J Vib Eng 9(1) 60-63 (Mar 1996), 10A227

Secondary bifurcations and global instability of an aeroelastic nonlinear system in the divergence domain, J Sound Vib 191(3) 431-451 (Apr 1996), 10A319

Feedback stabilization of connected nonlinear oscillators with uncontrollable linearization, Syst Control Lett 27(3) 181-185 (Mar 1996), 10A420

Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, J Non-Newtonian Fluid Mech 63(1) 1-31 (Mar 1996), 10A1076

Hydrodynamic instabilities, chaos and phase transition, Acta Mech Sinica 12(1) 1-14 (1996), 10A1167

Second-order control optimization method for nonlinear dynamic systems and its application to optimal aircraft trajectory calculation, TsAGI 1(1) 84-94 (1994), 10A1204

Evolution of the Rayleigh-Benard convection in a rectangular box, J Phys Soc Japan 65(4) 934-944 (Apr 1996), 10A1261

Frequency-Domain Methods for Nonlinear Analysis: Theory and Applications - Nonlinear Science: Series A, Vol 9 (World Sci Pub, River Edge, NJ, 1995) 11N14

Theory of Oscillations - Series on Optimization (World Sci Pub, River Edge, NJ, 1996) 11N18

Dynamics of a state variable frictional law in FE analysis, Finite Elements Anal Des 22(1) 25-40 (May 1996), 11A29

Chaotic advection by Rossby-Haurwitz waves, Fluid Dyn Res 18(1) 1-16 (Jun 1996), 11T83

Chaotic dynamics and subharmonic bifurcations in a nonlinear system, Int J Non-Linear Mech 31(3) 277-295 (May 1996), 11A84

Control of transport in a chaotic lattice, Physica D 93(3-4) 191-209 (Jun 1996), 11A85

Existence conditions for periodical solutions of a dynamic systems class, Mec Appl 40(2-3) 221-225 (Jun 1995), 11T86

Existence of the dynamic systems solutions derivative reported to the initial conditions, Mec Appl 40(4-6) 519-528 (Dec 1995), 11T87

Global stability properties of equilibria, periodic, and chaotic solutions, Appl Math Model 20(7) 488-500 (Jul 1996), 11A88

Higher-order change of the Hamiltonian between saddle approaches by phase plane matching, Int J Non-Linear Mech 31(3) 239-254 (May 1996), 11A89

Linear and nonlinear dynamics of a differentially-heated slot under gravity modulation, J Fluid Mech 313 1-38 (Apr 1996), 11A90

Linearization procedure for quasi-linear non-homogeneous and non-autonomous 2 × 2 first-order systems, Int J Non-Linear Mech 31(3) 377-386 (May 1996), 11A91

Minimum safe impulsive velocity in the driven escape oscillator, Int J Non-Linear Mech 31(3) 255-266 (May 1996), 11A92

Non-stationary responses of a nonlinearly coupled pitch-roll ship model under modulated excitation, J Sound Vib 192(3) 669-699 (May 1996), 11A93

Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics, J Sound Vib 192(5) 959-976 (May 1996), 11A94

Quasi-periodic response and stability analysis for nonlinear systems: A general approach, J Sound Vib 192(4) 821-833 (May 1996), 11A95

Slow passage through a pitchfork bifurcation, SIAM J Appl Math 56(3) 889-918 (Jun 1996), 11A96

Slow-transition across instabilities in nonlinear dissipative systems, J Sound Vib 192(4) 835-865 (May 1996), 11A97

Characterization of periodic motions in aircraft lateral dynamics, J Guidance Control Dyn 19(3) 680-685 (Jun 1996), 11A147

Numerical continuation of families of periodic orbits in a parametric potential, Mech Res Commun 23(3) 291-298 (Jun 1996), 11T232

Aeroelasticity (Dover, Mineola NY, 1996) 12N5

Nonlinear Mathematics and its Applications (Cambridge UP, New York, 1996) 12N7

Local stability analysis of the approximate harmonic balance solutions, Nonlinear Dyn 10(2) 105-133 (Jun 1996), 12A102

Alternating frequency-coefficient technique in the harmonic balance method, Int J Non-Linear Mech 31(4) 517-529 (Jul 1996), 12A105

Alternating frequency-coefficient technique in the trigonometric collocation method, Int J Non-Linear Mech 31(4) 531-545 (Jul 1996), 12A106

Analysis of a nonlinear system exhibiting chaotic, noisy chaotic, and random behaviors, J Appl Mech 63(2) 509-516 (Jun 1996), 12A107

Application of chaos theory in identification of two-phase flow patterns and transitions in a small, horizontal rectangular channel, J Fluids Eng 118(2) 383-390 (Jun 1996), 12A108

Asymptotic behavior of solutions of impulsively damped nonlinear oscillator equations, J Comput Appl Math 71(1) 147-162 (Jul 1996), 12A109

Chaotic advection in 3D unsteady incompressible laminar flow, J Fluid Mech 316 259-284 (Jun 1996), 12A110

Chaotic waveform relaxation methods for dynamical systems, Appl Math Comput 78(1) 83-100 (Aug 1996), 12A111

Generation of stable limit cycles in controllable linear systems, Syst Control Lett 28(1) 43-48 (Jun 1996), 12T112

Largest Lyapunov exponents and bifurcations of stochastic nonlinear systems, Shock Vib 3(4) 313-320 (1996), 12A113

Linear chaos in the unforced quantum harmonic oscillator, J Dyn Syst Meas Control 118(2) 337-338 (Jun 1996), 12T114

Modified Lindstedt-Poincare method for a strongly nonlinear two-dof system, J Sound Vib 193(4) 751-762 (Jun 1996), 12A115

Modified Lindstedt-Poincare method for a strongly nonlinear system with quadratic and cubic nonlinearities, Shock Vib 3(4) 279-285 (1996), 12A116

Nonlinear dynamics of an elastic rod with frictional impact, Nonlinear Dyn 10(2) 187-201 (Jun 1996), 12A117

Normal modes for piecewise linear vibratory systems, Nonlinear Dyn 10(2) 135-164 (Jun 1996), 12A118

Problems in the development of nonlinear mechanics theory and applications, Facta Univ Mech Auto Control Robotic 1(5) 539-560 (1995), 12T119

Regular and chaotic motions in applied dynamics of a rigid body, Chaos 6(2) 155-166 (Jun 1996), 12A120

Rendering a subcritical Hopf bifurcation supercritical, J Fluid Mech 317 91-109 (Jun 1996), 12A121

Spurious limit-cycles arising in higher order averaging methods, J Sound Vib 193(3) 743-746 (Jun 1996), 12T122

Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, Nonlinear Dyn 10(2) 175-185 (Jun 1996), 12A123

Symmetry-restoring crises, period-adding and chaotic transitions in the cubic van der Pol oscillator, J Sound Vib 193(4) 863-875 (Jun 1996), 12A124

Transient solutions of the ring-spinning balloon equations, J Appl Mech 63(2) 523-528 (Jun 1996), 12A125

Transition from soliton to chaotic motion following sudden excitation of a nonlinear structure, J Appl Mech 63(2) 445-449 (Jun 1996), 12A126

Global convergence characteristics of numerically evaluated Jacobian matrices, Nonlinear Dyn 10(2) 165-174 (Jun 1996), 12A127

Chaotic vibration in fluid-stiffness-controlled instability of a tube row in crossflow, J Appl Mech 63(2) 487-492 (Jun 1996), 12A264

Chaos in a spacecraft attitude maneuver due to time-periodic perturbations, J Appl Mech 63(2) 501-508 (Jun 1996), 12A268

Wave technology in machinery manufacture, J Machinery Manuf Reliab 1 68-73 (1996), 12A471

Nonlinear dynamic buckling of a simple model via the Liapunov direct method, J Sound Vib 193(5) 1091-1097 (Jun 1996), 12A609

Model of vibration excitation in a spur mesh, J Machinery Manuf Reliab 1 17-26 (1996), 12T958

Using the correlation dimension for vibration fault diagnosis of rolling element bearings - I: Basic concepts, Mech Syst Signal Processing 10(3) 241-250 (May 1996), 12A963

Using the correlation dimension for vibration fault diagnosis of rolling element bearings - II: Selection of experimental parameters, Mech Syst Signal Processing 10(3) 251-264 (May 1996), 12A964

Melnikov process for stochastically perturbed, slowly varying oscillators: Application to a model of wind-driven coastal currents, J Appl Mech 63(2) 429-435 (Jun 1996), 12A1030

Chaos in the thermal convection of weakly shear-thinning fluids, J Non-Newtonian Fluid Mech 63(2-3) 153-178 (Apr 1996), 12A1041

150Y. Computational techniques

Application of rigid FEM to dynamic analysis of spatial systems, J Guidance Control Dyn 18(4) 891-898 (Aug 1995), 1T13

Application of Galerkin's method in Lagrangian dynamics, J Appl Math Mech 59(1) 9-18 (1995), 1A107

Hamiltonian perturbation theory on a manifold, Celest Mech Dyn Astron 62(1) 43-69 (1995), 1A108

Integrable extensions of Jacobi's problem of geodesics on an ellipsoid, J Appl Math Mech 59(1) 1-7 (1995), 1A109

Lyapunov exponents analysis of autonomous and nonautonomous sets of ordinary differential equations, Acta Phys Polonica B B26(8) 1321-1331 (Aug 1995), 1A110

Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 1: Theory for linear structural dynamics, Finite Elements Anal Des 20(3) 179-194 (Jul 1995), 1A111

Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 2: Theory for nonlinear structural dynamics, Finite Elements Anal Des 20(3) 195-204 (Jul 1995), 1A112

Computerized determination of curvature relations and contact ellipse for conjugate surfaces, Comput Methods Appl Mech Eng 125(1-4) 151-170 (Sep 1995), 1A941

Graph-theoretic modeling of particle-mass and constrained rigid body systems, Mech Machine Theory 30(7) 953-967 (Oct 1995), 2T78

Il-matrix: its definition, interpretation and application, Mech Machine Theory 30(7) 943-952 (Oct 1995), 2A79

Modeling, synthesis and analysis of bar systems characterized by a cascade structure represented by graphs, Mech Machine Theory 30(7) 969-986 (Oct 1995), 2A80

Symbolic analysis of bond graphs by application of the Coates rule, Mech Machine Theory 30(7) 1019-1026 (Oct 1995), 2A81

Hopf bifurcation of mechanically and electrically coupled nonlinear dynamical systems (Chinese), J Vib Eng 8(2) 150-155 (Jun 1995), 3A100

Numerical integration of constrained mechanical systems using MEXX, Mech Struct Machines 23(4) 473-495 (1995), 3A105

Regularization methods for constrained mechanical multibody systems, Z Angew Math Mech 75(10) 761-773 (1995), 4A107

Parametric random excitation of nonlinear coupled oscillators, Nonlinear Dyn 8(3) 385-413 (Oct 1995), 4A123
Comparison of piecewise linear and continuous approximating models, Mech Res Commun 22(6) 527-532 (Dec 1995), 4T129
Principal rotation representations of proper N x N orthogonal matrices, Int J Eng Sci 33(15) 2277-2295 (Dec 1995), 4A130
Static and dynamic analysis of concrete pavements including thermal warping effects, Arab J Sci Eng 20(3) 433-466 (Jul 1995), 4T131
Algorithms of analytical compensation for systematic drifts of a noncontact gyro, Mech Solids 30(2) 1-6 (1995), 5A83
Time-frequency analysis of a non-uniformly sampled signal with the Wigner-Ville transform: Application to the study of the gyroscopic motion of a projectile, Mech Syst Signal Processing 9(6) 589-600 (Nov 1995), 5A86
Computer-aided displacement analysis of spatial mechanisms using the C++ programming language, Adv Eng Software 23(3) 163-172 (1995), 5A94
Stability and accuracy analysis of Baumgarte's constraint violation stabilization method, J Mech Des 117(3) 446-453 (Sep 1995), 5A95
Numerical simulation of head-disk impacts during dynamic loading processes, J Trib 117(4) 602-606 (Oct 1995), 5A762
Application of interpolated cell mapping to an analysis of the Lorenz equations, J Sound Vib 188(2) 209-226 (Nov 1995), 6A98
Axial unwinding of yarn from a weft bobbin wound parallel to a disc tube, Fibres Textiles in E Europe 2(4) 28-31 (Dec 1994), 6T111
Mass point moving on a nonsmooth manifold in R^n, J Theor Appl Mech 34(1) 17-29 (1996), 6A112
Limiting characteristics of a resonance machine with an electromagnetic vibration exciter, J Machinery Manuf Reliab 3 88-93 (1995), 6A515
Element-by-element matrix decomposition and step-by-step integration method for transient dynamic problems, Appl Math Mech 16(11) 1039-1045 (Nov 1995), 7A18
Augmented Lagrangian and mass-orthogonal projection methods for constrained multibody dynamics, Nonlinear Dyn 9(1-2) 113-130 (Feb 1996), 7A87
Flexible multibody dynamics: An object-oriented approach, Nonlinear Dyn 9(1-2) 205-221 (Feb 1996), 7A89
Modeling of multibody systems with the object-oriented modeling language Dymola, Nonlinear Dyn 9(1-2) 91-112 (Feb 1996), 7T91
Sparse-matrix generation of Jacobians for the object-oriented modeling of multibody systems, Nonlinear Dyn 9(1-2) 185-204 (Feb 1996), 7A92
Symbolic computations in flexible multibody systems, Nonlinear Dyn 9(1-2) 147-163 (Feb 1996), 7A93
Energy method for computing periodic solutions of strongly nonlinear systems - I: Autonomous systems, Nonlinear Dyn 9(3) 223-247 (Mar 1996), 7A108
Integration methods of vacco dynamics equation of nonlinear nonholonomic systems, Appl Math Mech 16(11) 1055-1063 (Nov 1995), 7A120
Application of the modal integration method to flexible multibody systems, Comput Struct 59(3) 553-559 (May 1996), 8A93
Geometrically nonlinear beam element for dynamics simulation of multibody systems, Int J Numer Methods Eng 39(5) 763-786 (Mar 1996), 8A94
Dynamic analysis of flexible mechanisms by FEM, Machine Dyn Prob 14 7-91 (1995), 9A34
Analysis of working possibilities of a power shovel, Eng Trans 43(3) 443-460 (1995), 9A166
Numerical Methods in Engineering Simulation - Proc of 3rd Int Congress on Numer Methods in Eng and Appl Sci (Cimenics '96), Merida, Venezuela, March 1996 (Comput Mech, Billerica MA, 1996) 10N30
Analytical transvection forms of the kinetic energy matrix and the inverse matrix for a system of bodies, Mech Solids 30(5) 1-9 (1995), 10A73
Estimation of vibration intensity of mechanical systems subjected to disturbances of finite duration, J Machinery Manuf Reliab 6 7-14 (1995), 10A75
Lower order critical operating speeds indentification for flexible linkage mechanisms (Chinese), J Vib Eng 9(1) 99-104 (Mar 1996), 10A84
Numerical method for determining nonlinear normal modes, Nonlinear Dyn 10(1) 19-30 (May 1996), 10A112
Reduction of complex dynamical systems using principal interaction patterns, Physica D 92(1-2) 28-60 (Apr 1996), 10A114
Assessment of time integration schemes for nonlinear dynamic equations, J Sound Vib 192(1) 321-331 (Apr 1996), 10A116
Method of rational approximations: Periodic orbits and quasiperiodicity, Reports Math Phys 36(2-3) 433-438 (Dec 1995), 10T117
Nonlinear viscoelastic bushing element in multibody dynamics, Comput Mech 17(5) 287-296 (Mar 1996), 10A118
Normal terms of Hamiltonian systems, Acta Phys Polonica A 89(4) 467-479 (Apr 1996), 10A119
Symplectic integration of constrained Hamiltonian systems by composition methods, SIAM J Numer Anal 33(2) 475-491 (Apr 1996), 10A120
Unusual stability property of a direct integration algorithm, J Sound Vib 192(5) 1015-1017 (May 1996), 11A73
Mixed-interface substructures for dynamic analysis of flexible multibody systems, Eng Struct 18(7) 495-503 (Jul 1996), 11A78
Method for analyzing the dynamic response of a structural system with variable mass, damping and stiffness (Chinese), J Comput Struct Mech Appl 13(2) 127-137 (May 1996), 11T98
Global convergence characteristics of numerically evaluated Jacobian matrices, Nonlinear Dyn 10(2) 165-174 (Jun 1996), 12A127

150Z. Experimental techniques

Experimental study of bifurcation, chaos, and dimensionality in a system forced through a bifurcation parameter, Nonlinear Dyn 8(4) 467-489 (Dec 1995), 4A121
Parametric random excitation of nonlinear coupled oscillators, Nonlinear Dyn 8(3) 385-413 (Oct 1995), 4A123
Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7 (VCH Publ, New York, 1994) 6R16
Determining screw axes using holographic interferograms, Mech Machine Theory 31(2) 245-259 (Feb 1996), 6A113
Introduction to Engineering Experimentation (Prentice-Hall, Englewood Cliffs NJ, 1996) 7R10
Increasing the measurement accuracy of gravity force acceleration, Prikl Mekh (Appl Mech) 31(2) 92-96 (1995), 7T121
Study of system software of revolving solid measuring machine (Chinese), J Dalian Univ Tech 35(5) 658-663 (Oct 1995), 8A339
Split Hopkinson bar technique to evaluate the performance of accelerometers, J Appl Mech 63(2) 353-356 (Jun 1996), 12A128

152. VIBRATIONS OF SOLIDS (BASIC)

152A. General theory

50th Anniversary of the Design Engineering Division (ASME Press, New York, 1995) 1N20
Synchronization and chaotization in interacting dynamic systems, Appl Mech Rev 48(11) 733-752 (Nov 1995), 1A106
Averaging in randomly perturbed multifrequency nonlinear systems, J Appl Math Mech 59(1) 27-33 (1995), 1A113
Dynamics of unsymmetric piecewise-linear and nonlinear systems using FEs in time, J Sound Vib 185(1) 155-170 (Aug 1995), 1A114
Existence of quasiperiodic motions in quasilinear systems, J Appl Math Mech 59(1) 19-26 (1995), 1A115
Fundamental axisymmetric singular solutions of elastodynamics, Quart J Mech Appl Math 48(3) 329-342 (Aug 1995), 1A116
Nonlinear elliptic partial differential equations at resonance: Higher eigenvalues, Nonlinear Anal 25(5) 455-471 (Sep 1995), 1T117
Dynamics of a piecewise nonlinear system subject to dual harmonic excitation using parametric continuation, J Sound Vib 184(5) 767-799 (Aug 1995), 1A180
Effects of threshold singularities on a dynamical system with intermittent contact and breakage, J Sound Vib 185(4) 609-625 (Aug 1995), 2A82
Transitions and statistical characteristics of vibrations in a bimodular oscillator, Chaos 5(3) 496-500 (Sep 1995), 2A83
Use of neural networks for identification of linear and nonlinear systems, Meccanica 30(4) 377-388 (Aug 1995), 2A275
Double resonance for quasilinear elliptic higher order partial differential equations between the first and second eigenvalues, Nonlinear Anal 25(12) 1257-1281 (Dec 1995), 3T106
Rotatory and horizontal vibrations of a circular surface footing on a saturated elastic half-space, Int J Solids Struct 33(2) 265-281 (Jan 1996), 3A107
Self-excited system vibrations with parametric and external excitations, J Sound Vib 187(4) 595-607 (Nov 1995), 4A132
Detection of grazing orbits and incident bifurcations of a forced continuous, piecewise-linear oscillator, J Sound Vib 187(3) 485-493 (Nov 1995), 4A134
Probabilistic analysis of non-self-adjoint mechanical systems with uncertain parameters, Int J Solids Struct 33(5) 675-688 (Feb 1996), 5A96
Solvability of nonself-adjoint resonance problems, Nonlinear Anal 26(5) 887-891 (Mar 1996), 5T97
Toeplitz Jacobian matrix for nonlinear periodic vibration, J Appl Mech 62(3) 709-717 (Sep 1995), 5A98
Nonlinear normal modes of a cantilever beam, J Vib Acoust 117(4) 477-481 (Oct 1995), 5A124
Equilibrium displacement and stress distribution in a 2D, axially moving web under transverse loading, J Appl Mech 62(3) 772-779 (Sep 1995), 5A498
Shock and Vibration Handbook, Fourth Edition (McGraw-Hill, New York, 1996) 6N8
Theory of Vibration: An Introduction, Second Edition - Mechanical Engineering Series (Springer-Verlag, New York, 1996) 7N9
Modal superposition method for nonlinear structures, J Sound Vib 189(3) 315-339 (Jan 1996), 7A122
Oscillations of stochastically laminar material in longitudinal direction, Prikl Mekh (Appl Mech) 30(12) 33-39 (1994), 7A123
Peculiarities of free and induced oscillations in the systems with dry and viscous friction (Russian), Prikl Mekh (Appl Mech) 31(3) 84-89 (1995), 7T124
Vibration regimes of complex motion of the material point of variable weight (Russian), Prikl Mekh (Appl Mech) 31(4) 59-64 (1995), 7A125
Dynamics of structural systems with spatial randomness, Int J Solids Struct 33(11) 1651-1669 (May 1996), 8A95
Fast transient dynamic plane stress analysis of orthotropic Hill-type solids at finite elastoplastic strains, Int J Solids Struct 33(11) 1543-1562 (May 1996), 8A377
Higher-order methods for eigenvalues of second-order ordinary differential equations with boundary conditions, Appl Math Comput 76(2-3) 293-300 (May 1996), 9A125
Codimension two bifurcations and Hopf bifurcations of an impacting vibrating system, Appl Math Mech 17(1) 65-75 (Jan 1996), 9A167
Fundamental solution of the equation of steady oscillations for thermoelastic mixtures, Prikl Mekh (Appl Mech) 31(7) 63-71 (1995), 9A168
Vertical oscillations of the rigid-edge inclusion under offset of harmonic load, Prikl Mekh (Appl Mech) 31(7) 46-55 (1995), 9A169
Vibration for Engineers, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 10R8
Long-term structural dynamics of mechanical systems with local nonlinearities, J Vib Acoust 118(2) 147-153 (Apr 1996), 10A121
Amplitude bounds of linear forced vibrations, Arch Appl Mech 66(5) 357-368 (Apr 1996), 10A122
Principles of Vibration (Oxford UP, New York, 1996) 11R13
Theory of Oscillations - Series on Optimization (World Sci Pub, River Edge, NJ, 1996) 11N18
Circumventing space sampling limitations in mechanical vibrations, Meccanica 31(2) 163-176 (Apr 1996), 11A99
Determination of the density distribution of a vibrating body, Z Angew Math Mech 76(6) 360-361 (1996), 12T129
Localization of periodic oscillations in discrete nonlinear systems, J Sound Vib 193(4) 847-862 (Jun 1996), 12A130
Nonlinear random vibration, Appl Math Comput 77(2-3) 109-112 (Jul 1996), 12A131
Nonoscillatory solutions of delay differential equations with impulses, Appl Math Comput 77(2-3) 153-165 (Jul 1996), 12T132

152B. Linear theory

Another look at the propagation constant, J Sound Vib 185(2) 372-375 (Aug 1995), 1A118
Response of primary-secondary systems to short-duration, wide-band input, J Sound Vib 185(1) 119-137 (Aug 1995), 1A166
Energy flow predictions in a structure of rigidly joined beams using receptance theory, J Sound Vib 185(5) 867-890 (Sep 1995), 2A84
Assessment function for improving the accuracy of estimated modal parameters, Modal Analysis 10(4) 236-259 (Oct 1995), 4A133
Detection of grazing orbits and incident bifurcations of a forced continuous, piecewise-linear oscillator, J Sound Vib 187(3) 485-493 (Nov 1995), 4A134
Ensemble averaged vibration energy flows in a three-element structure, J Sound Vib 187(3) 495-529 (Nov 1995), 4A135
Orthogonality sensitivity method for analytical dynamic model correction using modal test data, J Sound Vib 187(5) 771-780 (Nov 1995), 4A136
Perturbation method for determining eigensolutions of weakly damped systems, J Sound Vib 187(4) 671-681 (Nov 1995), 4A137
Relocation of anti-resonances of a vibratory system by local structural changes, Modal Analysis 10(4) 224-235 (Oct 1995), 4A138
Experimental investigation of vibration localization in disordered multi-span beams, J Sound Vib 187(4) 649-669 (Nov 1995), 4A155
Localization of vibration in disordered multi-span beams with damping, J Sound Vib 187(4) 625-648 (Nov 1995), 4A159
Analysis of linear nonconservative vibrations, J Appl Mech 62(3) 685-691 (Sep 1995), 5A99
Forced harmonic response of a continuous system displaying eigenvalue veering phenomena, J Vib Acoust 117(4) 439-444 (Oct 1995), 5A100
Variable residue method for modal parameter estimation, J Vib Acoust 117(4) 392-397 (Oct 1995), 5A101
Vibrations of a rotating viscoelastic axisymmetric body under surface load, Mech Solids 30(2) 66-73 (1995), 5A102
Vibrations of a system with an eigenfrequency identical to that of one of its subsystems, J Vib Acoust 117(4) 482-487 (Oct 1995), 5A103
Modal controllability and observability of general mechanical systems, J Vib Acoust 117(4) 510-515 (Oct 1995), 5A298
Modal parameter estimation for piezostructures, J Vib Acoust 117(4) 431-438 (Oct 1995), 5A306
Parameter study of localization, Shock Vib 3(1) 1-10 (1996), 6A114
Bending and torsional vibration control of composite beams through intelligent constrained-layer damping treatments, Smart Mat Struct 4(4) 340-355 (Dec 1995), 7A126
Power flow between three series coupled oscillators, J Sound Vib 189(2) 215-229 (Jan 1996), 7A127
Transient energy flow between two coupled beams, J Sound Vib 189(2) 265-287 (Jan 1996), 7A128
Transient statistical energy analysis of an impulsively excited two oscillator system, J Sound Vib 189(2) 249-264 (Jan 1996), 7A129
Vibration mode localization in disordered cyclic structures - I: Single substructure mode, J Sound Vib 189(5) 625-645 (Feb 1996), 7A130
Vibration mode localization in disordered cyclic structures - II: Multiple substructure modes, J Sound Vib 189(5) 647-660 (Feb 1996), 7A131
Holistic dynamics of systems, J Syst Eng 6(1) 33-45 (1996), 8A96
Exact boundary condition perturbation solutions in eigenvalue problems, J Appl Mech 63(1) 128-135 (Mar 1996), 9A170
Amplitude bounds of linear forced vibrations, Arch Appl Mech 66(5) 357-368 (Apr 1996), 10A122
Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, J Sound Vib 191(5) 881-899 (Apr 1996), 10A123
Modal analysis of linear dynamic systems: Physical interpretation, J Struct Eng 122(5) 517-527 (May 1996), 10A124
Modal correlation coefficient for detection of kinks in mode shapes, J Vib Acoust 118(2) 271-272 (Apr 1996), 10T125
Quantifying the correlation between measured and computed mode shapes, J Vib and Control 2(2) 123-144 (May 1996), 10A126
Vibration localization in multi-coupled and multi-dimensional near-periodic structures, Wave Motion 23(1) 67-82 (Feb 1996), 10A127
Uniqueness of modal parameter estimation, J Sound Vib 192(2) 581-598 (May 1996), 10A403
Vibration analysis of structures with rotation and reflection symmetry, Shock Vib 3(4) 303-311 (1996), 12A133
Determination of frequency response functions from response measurements - I: Extraction of poles and zeros from response cepstra, Mech Syst Signal Processing 10(3) 293-317 (May 1996), 12A324
Determination of frequency response functions from response measurements - II: Regeneration of frequency response functions from poles and zeros, Mech Syst Signal Processing 10(3) 319-340 (May 1996), 12A325

152C. Crystals

Vibration localization in multi-coupled and multi-dimensional near-periodic structures, Wave Motion 23(1) 67-82 (Feb 1996), 10A127
Impact of second generation single crystal superalloys of foundry technology, Proc Inst Mech Eng J Aerospace Eng 210(G2) 147-155 (1996), 11A220

152D. Stochastic effects, incl random excitation

Random Vibration and Spectral Analysis (Kluwer, Norwell MA, 1994) 1R7
Random Vibrations: Theory and Practice (Wiley, New York, 1995) 2R8
Random vibration of structures: A personal perspective, Appl Mech Rev 48(12) 809-825 (Dec 1995), 2A85
Wide-band random vibrations in members of complex structures, Int J Solids Struct 32(24) 3629-3641 (Dec 1995), 2A86
Computational Stochastic Mechanics - Proc of 2nd Int Conf on Comput Stochastic Mech, Athens, June 1994 (Balkema, Rotterdam, Netherlands, 1995) 3N5
Distribution of rainflow range for Gaussian random processes with bimodal PSD, JSME Int J Ser A 38(4) 440-445 (Oct 1995), 3A58
High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), J Vib Eng 8(2) 127-135 (Jun 1995), 3A61

Simulation of multi-dimensional Gaussian stochastic fields by spectral representation, Appl Mech Rev 49(1) 29-53 (Jan 1996), 3A62
Energy flow modeling of interconnected structures: A deterministic foundation for statistical energy analysis, J Sound Vib 186(3) 407-445 (Sep 1995), 3A108
Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), J Vib Eng 8(2) 119-126 (Jun 1995), 3A1321
Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics (Elsevier Sci, New York, 1994) 4R4
Ensemble averaged vibration energy flows in a three-element structure, J Sound Vib 187(3) 495-529 (Nov 1995), 4A135
Improving the equivalent linearization technique for stochastic Duffing oscillators, J Sound Vib 186(5) 846-855 (Oct 1995), 4T139
Structure identification method for random vibration (Chinese), J Vib Eng 8(3) 264-268 (Sep 1995), 4T140
Transient mean square response of stochastic systems, Comput Struct 58(3) 585-596 (Feb 1996), 4A141
Estimation of nonlinear stiffness parameters of rolling element bearings from random response of rotor-bearing systems, J Sound Vib 187(2) 229-239 (Oct 1995), 4A335
Probabilistic analysis of non-self-adjoint mechanical systems with uncertain parameters, Int J Solids Struct 33(5) 675-688 (Feb 1996), 5A96
Application of quasi-conservative averaging to a nonlinear system under nonwhite excitation, Int J Non-Linear Mech 30(5) 677-685 (Sep 1995), 5A104
Non-Gaussian noise effects on reliability of multistable systems, J Offshore Mech Arctic Eng 117(3) 166-170 (Aug 1995), 5A105
Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), Proc JSCE 525(I-33) 117-126 (Oct 1995), 5A106
Simulation of stochastic waves by hybrid method of Kalman filter and Kriging techniques (Japanese), Proc JSCE 525(I-33) 153-161 (Oct 1995), 5T107
Spectral density of a nonlinear single dof system's response to a white-noise random excitation: A unique case of an exact solution, Int J Non-Linear Mech 30(5) 673-676 (Sep 1995), 5A108
Experiment of chaotic vibration of loosely supported tube rows in cross-flow, J Pressure Vessel Tech 117(3) 204-212 (Aug 1995), 5A217
Probabilistic Structural Dynamics: Advanced Theory and Applications (McGraw-Hill, New York, 1995) 6R6
Analysis of nonstationary dynamic processes in the presence of mixed information on random perturbations, J Machinery Manuf Reliab 3 6-12 (1995), 6A49
Parameter study of localization, Shock Vib 3(1) 1-10 (1996), 6A114
Approximate analysis of response variability of uncertain linear systems, Probab Eng Mech 10(4) 251-264 (1995), 6A115
Random vibrations of discrete systems under kinematic wave excitations, J Theor Appl Mech 34(1) 159-177 (1996), 6A116
Spectral method for estimation of nonlinear system parameters from measured response, Probab Eng Mech 10(4) 199-207 (1995), 6A117
Combined integral and FE analysis of broad-band random vibration in structural members, Probab Eng Mech 10(4) 241-250 (1995), 6A761
Oscillations of stochastically laminar material in longitudinal direction, Prikl Mekh (Appl Mech) 30(12) 33-39 (1994), 7A123
Transient energy flow between two coupled beams, J Sound Vib 189(2) 265-287 (Jan 1996), 7A128
Transient statistical energy analysis of an impulsively excited two oscillator system, J Sound Vib 189(2) 249-264 (Jan 1996), 7A129
Stochastic averaging versus physical consistency, J Sound Vib 189(2) 289-297 (Jan 1996), 7A132
Analysis of nonstationary signals using time-frequency methods, J Sound Vib 190(3) 419-447 (Feb 1996), 8A68
Conditional linearization in nonlinear random vibration, J Eng Mech 122(3) 197-200 (Mar 1996), 8A97
New equivalent nonlinearization method for random vibrations of nonlinear systems, Mech Res Commun 23(2) 131-136 (Apr 1996), 8T98
Stochastic dynamics of geometrically nonlinear structures with random properties subject to stationary random excitation, J Sound Vib 190(5) 821-841 (Mar 1996), 8A99
Study of the kinetic energy impulse response as an indicator of the strength of coupling between SEA subsystems, J Sound Vib 190(3) 363-386 (Feb 1996), 8A100
Exact stationary response solutions of nonlinear dynamic systems, Arch Appl Mech 66(4) 255-263 (Mar 1996), 9A153
Dynamic characteristics of welded structures, Nucl Eng Des 160(3) 379-385 (Feb 1996), 9A171
Probabilistic analysis of a nonlinear pendulum, Acta Mech 115(1-4) 87-101 (1996), 9A172
Pseudo-force method for a stochastic analysis of nonlinear systems, Probab Eng Mech 11(2) 113-123 (1996), 9A173
Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, JSME Int J Ser C 39(1) 137-143 (Mar 1996), 9A215
Stability of elastic and viscoelastic systems under a random perturbations of their parameters, Arch Appl Mech 66(4) 273-283 (Mar 1996), 9A494
Probabilistic component mode synthesis of nondeterministic substructures, AIAA J 34(4) 830-834 (Apr 1996), 9A898
Van Kampen expansion for linked Duffing-linear oscillators excited by colored noise, J Sound Vib 191(3) 397-414 (Apr 1996), 10A62
Dynamics of a stochastic oscillator with impacts, Eur J Mech A 15(2) 213-241 (1996), 10A74
Finite-element method for analysis of a nonlinear system under stochastic parametric and external excitation, Int J Non-Linear Mech 31(2) 193-201 (Mar 1996), 10A128
Maximum structural response using convex models, J Eng Mech 122(4) 325-333 (Apr 1996), 10A129
Modeling of stochastic dynamic systems using Hamilton's law of varying action, J Sound Vib 192(2) 399-412 (May 1996), 10A130
Research on modeling stochastic structures (Chinese), J Vib Eng 9(1) 47-53 (Mar 1996), 10A131
Response of linear time-periodic systems subjected to deterministic and stochastic excitations, J Vib and Control 2(2) 219-249 (May 1996), 10A132
Full-field random bending strain measurement of a plate from vibration measurements, J Sound Vib 191(5) 847-858 (Apr 1996), 10A174
Eigenvalue analysis of structures with flexible random connections, Struct Eng and Mech 4(3) 277-301 (May 1996), 11A8
Heuristic spectral estimation of bivariate nonstationary processes, Meccanica 31(2) 207-218 (Apr 1996), 11A100
Largest Lyapunov exponents and bifurcations of stochastic nonlinear systems, Shock Vib 3(4) 313-320 (1996), 12A113
Nonlinear random vibration, Appl Math Comput 77(2-3) 109-112 (Jul 1996), 12A131
Exact stationary solutions of stochastically excited and dissipated integrable Hamiltonian systems, J Appl Mech 63(2) 493-500 (Jun 1996), 12A134
Matrix methods for estimating the coherence functions from estimates of the cross-spectral density matrix, Shock Vib 3(4) 237-246 (1996), 12A135
Optimal control approach to extreme local maxima for stochastic Duffing-type oscillators, J Sound Vib 193(3) 597-629 (Jun 1996), 12A136
Statistical energy analysis of two edge-coupled rectangular plates: Ensemble averages, J Sound Vib 193(4) 793-822 (Jun 1996), 12A168
Prediction of structural vibration transmission through a motor vehicle using statistical energy analysis, J Sound Vib 193(3) 691-703 (Jun 1996), 12A283

152F. Damping, decay, and control of vibrations

Design formulae for a plate type magnetic damper with alternative magnetic poles, Facta Series Mech Auto Control Robotic 1(3) 281-292 (1993), 1A119
Electrorheological fluid vibration damper, Smart Mat Struct 4(2) 83-92 (Jun 1995), 1A120
Response of non-classically damped structures in the modal subspace, Earthquake Eng Struct Dyn 24(9) 1267-1281 (Sep 1995), 1A121
Role of Rayleigh damping, J Sound Vib 185(2) 207-218 (Aug 1995), 1A122
Theoretical analysis of damping characteristics of air-lubricated slideways (Japanese), J Japan Soc Precision Eng 61(7) 959-963 (Jul 1995), 1A123
Optimal modal-space controller for structural damping enhancements, J Guidance Control Dyn 18(4) 657-663 (Aug 1995), 1A380
Maximum power absorption with active struts, J Guidance Control Dyn 18(4) 907-908 (Aug 1995), 1T410
Experimental control of a single-link flexible arm incorporating electrorheological fluids, J Guidance Control Dyn 18(4) 916-919 (Aug 1995), 1T433
Computational prediction and redesign for viscoelastically damped structures, Comput Methods Appl Mech Eng 125(1-4) 1-16 (Sep 1995), 1A483
Flexibility of TLD to high-rise building by simple experiment and comparison, Comput Struct 57(5) 855-861 (Dec 1995), 2A87
Engineering Vibration Analysis with Application to Control Systems (Halsted, New York, 1996) 3R11
Engineering feasibility of induced strain actuators for rotor blade active vibration control, J Intelligent Mat Syst Struct 6(5) 583-597 (Sep 1995), 3A109
Influence of piezo-actuator thickness on the active vibration control of a cantilever beam, J Intelligent Mat Syst Struct 6(5) 610-623 (Sep 1995), 3A110
Active vibration control of a flexible rotor, Comput Struct 58(3) 499-511 (Feb 1996), 4A142
Causality and the complex modulus model of damping, Z Angew Math Mech 75(10) 807-808 (1995), 4T143
Optimal damping of the oscillations of elastic bodies, J Appl Math Mech 59(3) 439-448 (1995), 4A144
Reanalysis of plates modified by free damping layer treatment, Comput Struct 58(3) 535-541 (Feb 1996), 4A171
Experimental investigation on the effectiveness of advanced hybrid squeeze film damper (Chinese), J Vib Eng 8(3) 281-285 (Sep 1995), 4A542
Damping characteristics of an impact damper and its application, Int J Machine Tools Manuf 36(3) 293-306 (Mar 1996), 5A109
Effect of temperature changes on damping properties of sandwich cylindrical panels, Int J Solids Struct 33(6) 835-849 (Mar 1996), 5A110
Vibration damping in low-frequency range due to structural complexity: A model based on the theory of fuzzy structures and model parameters estimation, Comput Struct 58(5) 901-915 (Mar 1996), 5A111
Viscoelastic damping of particle and fiber reinforced composite materials, J Acoust Soc Am 99(6) 3360-3374 (Dec 1995), 5A431
Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), Proc JSCE 525(I-33) 191-200 (Oct 1995), 5A727
Alternative control logic for type-II variable-stiffness system, AIAA J 34(1) 207-209 (Jan 1996), 6T118
Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, JSME Int J Ser C 38(4) 663-669 (Dec 1995), 6A119
Vibration damping of large structures induced by attached small resonant structures, J Acoust Soc Am 99(1) 335-344 (Jan 1996), 6A120
Determination and parametric study of material damping in fiber reinforced plastics: A review, European J Mech Eng 40(4) 203-213 (1995), 6A148
Numerical study of an impact oscillator with the addition of dry friction, J Sound Vib 188(5) 659-683 (Dec 1995), 6A191
Control of a flexible beam using back electromotive force of motor, J Guidance Control Dyn 19(1) 135-140 (Feb 1996), 6A325
Nonlinear friction-induced vibration in water-lubricated bearings, J Vib and Control 2(1) 87-113 (Feb 1996), 6A849
Active truss element and control law for vibration suppression, Smart Mat Struct 4(4) 264-269 (Dec 1995), 7A133
Approximation of the optimal control of vibrations: A geometrical approach, Math Methods Appl Sci 19(2) 87-129 (Jan 1996), 7A134
Dynamic evolution of a mechanical system with a very rigid linear damper, J Appl Math Mech 59(4) 533-539 (1995), 7A135
Intelligent control system for multiple dof vibration isolation, J Intelligent Mat Syst Struct 6(6) 787-800 (Nov 1995), 7A136
Isolated structural system using localized vibration control, J Intelligent Mat Syst Struct 6(6) 801-808 (Nov 1995), 7A137
Semiactive vibration suppression by variable-damping members, AIAA J 34(2) 355-361 (Feb 1996), 7A138
Thermally induced vibration suppression of laminated plates with piezoelectric sensors and actuators, Smart Mat Struct 4(4) 281-290 (Dec 1995), 7A139
Control of flexible manipulators via singular perturbations and distributed vibration damping, Dyn Control 6(1) 5-32 (Jan 1996), 7A441
Design of New Materials and Strengthening Technologies (Cambridge Int Sci, UK, 1995) 8N14
Damping of free oscillations in moving elastic systems, J Appl Math Mech 59(5) 769-772 (1995), 8A101
Experimental evaluation of squeeze film dampers without centralizing springs, Trib Int 29(1) 51-59 (Feb 1996), 8T102
New on-line spindle speed regulation strategy for chatter control, Int J Machine Tools Manuf 36(5) 651-660 (May 1996), 8A103
Theoretical analysis of damping properties of two-dof linear vibrational systems, Proc Inst Mech Eng C 210(C1) 79-90 (1996), 8A104
Validation of a numerical method for extracting liner impedance, AIAA J 34(3) 548-554 (Mar 1996), 8A105
Application of single-mode optical fiber sensors in structural vibration suppression, J Intelligent Mat Syst Struct 7(1) 71-77 (Jan 1996), 9A174
Application of the Taylor differential transformation method to viscous damped vibration of hard and soft spring system, Comput Struct 59(4) 631-639 (May 1996), 9A175
Vibration suppression in a flexible structure based on fiber optics Michelson interferometric sensor, J Intelligent Mat Syst Struct 7(1) 65-70 (Jan 1996), 9A176
Dynamic testing on spring damping foundation (Chinese), J Dalian Univ Tech 36(2) 157-161 (Mar 1996), 9A213
Suppression of chatter vibration in inner-diameter cutting, JSME Int J Ser C 39(1) 25-33 (Mar 1996), 9A228
Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, JSME Int J Ser C 39(1) 41-48 (Mar 1996), 9A413
LQR for state-bounded structural control, J Dyn Syst Meas Control 118(1) 113-119 (Mar 1996), 9A426
Nonlinear damped vibrations of simply supported sandwich plates in a rapidly changing temperature field, Nonlinear Dyn 9(4) 369-389 (Apr 1996), 9A1288
Complementarity problems of stick-slip vibrations, J Vib Acoust 118(2) 177-183 (Apr 1996), 10A133
Fundamental tests of two modal strain energy methods, J Vib Acoust 118(2) 272-275 (Apr 1996), 10T134
Loss factors of pipelike structures containing beads, J Acoust Soc Am 99(5) 2766-2774 (May 1996), 10A135
Response of a nonlinear system with strong damping to multifrequency excitations, Arch Appl Mech 66(5) 343-356 (Apr 1996), 10A136
Theoretical-experimental method for determining the stiffness and dissipative characteristics of elasto-damping elements in the frequency domain, J Machinery Manuf Reliab 6 87-89 (1995), 10A137
Trial-and-error procedure for single-dof systems with friction-affected sliding joints, J Sound Vib 191(4) 598-605 (Apr 1996), 10T138
Dynamics of an unbalanced rotor with dry friction in the bearing, Mech Solids 30(5) 53-58 (1995), 10A228
Waves in a rod embraced by a moving body, Mech Solids 30(5) 118-128 (1995), 10A244
Parametric identification of systems with dry friction and nonlinear stiffness using a time series model, J Vib Acoust 118(2) 252-263 (Apr 1996), 10A400
Complex modal analysis of a continuous model with radiation damping, J Sound Vib 192(1) 15-33 (Apr 1996), 10A657
Curved piezoactuator model for active vibration control of cylindrical shells, AIAA J 34(5) 1034-1040 (May 1996), 10A882
Band brake squeal, J Vib Acoust 118(2) 190-197 (Apr 1996), 10A1004
Sixth International Conference on Adaptive Structures Technology (Technomic, Lancaster PA, 1996) 11N16
Use of fuel inertia for airplane vibration damping, Russian Aeronaut 38(3) 86-88 (1995), 11A101
Vibratory control of a centrifugal compressor - Adjustment measurement-computation: Choice of a surveillance method, Rev Francaise Mec 0(1) 67-75 (1996), 11T102
Equivalence of the mechanical and entropic descriptions of elastothermodynamic damping in composite materials, Mech Composite Mat Struct 3(2) 83-95 (Jun 1996), 11A467
Dry friction losses in axially loaded cables, Struct Eng and Mech 4(3) 330-344 (May 1996), 11A496
Extension of a cable in the presence of dry friction, Struct Eng and Mech 4(3) 313-329 (May 1996), 11A497
Introduction to Motion Based Design (Comput Mech, Billerica MA, 1996) 12R4
Active vibration control for flexible structures using a wave-absorbing control method, JSME Int J Ser C 39(2) 188-194 (Jun 1996), 12A137
Finite element approach of vibration control using self-sensing piezoelectric actuators, Comput Struct 60(3) 505-512 (Aug 1996), 12A138
Role of structural damping in mechanical engineering, Strojnicky Casopis 47(3) 149-161 (1996), 12A139
Study on vibrational damping of microcantilevers (Japanese), J Japan Soc Precision Eng 62(5) 742-746 (May 1996), 12A140
Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, Composite Struct 34(4) 381-385 (1996), 12A550

152Y. Computational techniques

Averaging of mechanical systems by means of non-smooth periodic functions, J Theor Appl Mech 33(3) 615-626 (1995), 1A124
Calculation of eigenvectors with uniform accuracy, J Eng Mech 121(9) 948-955 (Sep 1995), 1A125
Deformation of a spherical molecule, Acta Phys Polonica A 88(2) 315-325 (Aug 1995), 1A126
Computation of eigenvector derivatives with repeated eigenvalues using a complete modal space, AIAA J 33(9) 1749-1753 (Sep 1995), 2T88
Role of the generalized inverse in structural dynamics, J Sound Vib 186(2) 185-195 (Sep 1995), 2A89
High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), J Vib Eng 8(2) 127-135 (Jun 1995), 3A61
Combination of the Lanczos algorithm with the substructure technique, J Sound Vib 186(4) 607-616 (Oct 1995), 3A111
Extension of classical modal reanalysis algorithms: The improvement of initial models, J Sound Vib 186(4) 551-560 (Oct 1995), 3A112
Mass penalty technique to control the critical time increment in explicit dynamic FE analyses,

Earthquake Eng Struct Dyn 24(10) 1315-1331 (Oct 1995), 3A113
Model correlation using multiple static load and vibration tests, AIAA J 33(11) 2182-2188 (Nov 1995), 4A145
Natural excitation technique (NExT) for modal parameter extraction from operating structures, Modal Analysis 10(4) 260-277 (Oct 1995), 4A146
Free vibration of a class of homogeneous isotropic solids, J Appl Mech 62(3) 706-708 (Sep 1995), 5A112
Methods of preserving symmetry in model updating, J Vib Acoust 117(3(A)) 349-354 (Jul 1995), 5A113
Model identification method of vibrating structures from incomplete model information, Appl Math Mech 16(10) 971-976 (Oct 1995), 6A121
Convergent algorithm for harmonic response prediction of general nonlinear structures, Mech Syst Signal Processing 10(1) 107-112 (Jan 1996), 6A153
New equivalent nonlinearization method for random vibrations of nonlinear systems, Mech Res Commun 23(2) 131-136 (Apr 1996), 8T98
Computer Aided Design CAD CAM Vibration of Mechanical Systems Numerical Approach: Selected Problems, Volume 2 - (Wspomaganie Komputerowe CAD CAM Drgania Ukladow Mechanicznych W Ujeciu Komputerowym: Zagadnienia Wybrane tom 2) (Wydawnictwo Naukowo Tech, Poland, 1995) 9R3
Shifted-poles and multiple modal acceleration method for computing complex mode shape derivatives (Chinese), J Comput Struct Mech Appl 12(2) 205-211 (May 1995), 9T177
Steady-state oscillations of composite spheres, Appl Mech Eng 1(1) 117-143 (1995), 9A178
Model reduction by a simplified variant of dynamic condensation, J Sound Vib 191(2) 233-250 (Mar 1996), 9A211
Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, J Vib Eng 9(1) 64-68 (Mar 1996), 10A92
Analytical study of vibrating systems with strong nonlinearities by employing saw-tooth time transformations, J Sound Vib 192(1) 43-64 (Apr 1996), 10A94
Assessment of time integration schemes for nonlinear dynamic equations, J Sound Vib 192(1) 321-331 (Apr 1996), 10A116
Accuracy of discontinuous Galerkin methods in the time domain, J Vib and Control 2(2) 193-217 (May 1996), 10A200
Selection of component modes for Craig-Bampton substructure representations, J Vib Acoust 118(2) 264-270 (Apr 1996), 10A240
Principles of Vibration (Oxford UP, New York, 1996) 11R13
Unusual stability property of a direct integration algorithm, J Sound Vib 192(5) 1015-1017 (May 1996), 11A73
Accelerated solutions for transcendental stiffness matrix eigenproblems, Shock Vib 3(4) 287-292 (1996), 12A141

152Z. Experimental techniques

Characterization of piezo-film sensors for direct vibration and impact measurements, Exp Mech 35(3) 224-232 (Sep 1995), 2A680
Fundamental noise limits for miniature acoustic and vibration sensors, J Vib Acoust 117(4) 405-410 (Oct 1995), 5A114
Sensitivity analysis on model parameter errors and measurement noises in frequency domain identification problems (Japanese), Proc JSCE 525(I-33) 163-170 (Oct 1995), 5A115
Experimental evaluation of squeeze film dampers without centralizing springs, Trib Int 29(1) 51-59 (Feb 1996), 8T102
Optical moments of time for measuring random vibrations, Prikl Mekh (Appl Mech) 31(9) 90-96 (1995), 9A179
Theoretical and experimental study of modal strain analysis, J Sound Vib 191(2) 251-260 (Mar 1996), 9A212
Error evaluation of the structural intensity measured with a scanning laser Doppler vibrometer and a k-space signal processing, J Acoust Soc Am 99(5) 2913-2921 (May 1996), 10A139
Theoretical and numerical assessment of strain pattern analysis, J Sound Vib 192(1) 349-387 (Apr 1996), 10A140
Use of a rising-falling chirp excitation for vibration testing, J Sound Vib 192(2) 599-604 (May 1996), 10A141
Comparison of mechanical impedance methods for vibration simulation, Shock Vib 3(3) 223-232 (1996), 10A204
Procedures to compute maximum structural responses from predictions or measurements at selected points, Shock Vib 3(3) 211-221 (1996), 10A208
Lamb wave vibration sensor with a cellulose membrane diaphragm, Acoust Lett 19(2) 36-38 (Aug 1995), 11A139
Laser techniques for vibration measurement, Opt Lasers Eng 25(4-5) 217-372 (Nov 1996), 12A787

154. VIBRATIONS (STRUCTURAL ELEMENTS)

154B. Beams, columns, rods, and bars

Counter-intuitive quasi-periodic motion in the autonomous vibration of cracked Timoshenko beams, J Sound Vib 185(3) 415-430 (Aug 1995), 1A127
Dualities in vibrating rods and beams: Continuous and discrete models, J Sound Vib 184(5) 759-766 (Aug 1995), 1A128
Dynamic stability of viscoelastic Rayleigh-type beams subjected to random excitations, Facta Series Mech Auto Control Robotic 1(3) 333-338 (1993), 1A129
Dynamic stiffness analysis of laminated beams using a first order shear deformation theory, Composite Struct 31(4) 265-271 (1995), 1A130
Exact frequency equation for an axially loaded beam-mass-spring system resting on a Winkler elastic foundation, J Sound Vib 185(2) 357-363 (Aug 1995), 1A131
Exact model reduction technique for beam structures: Combination of transfer and dynamic stiffness matrices, J Sound Vib 185(3) 431-440 (Aug 1995), 1A132
Finite amplitude flexural vibrations at ultrasonic frequencies in metallic bars, J Acoust Soc Am 98(3) 1742-1750 (Sep 1995), 1A133
Internal and combination resonances in a kinematically excited system of non-prismatic rods, Eng Trans 43(1-2) 113-136 (1995), 1A134
Modeling 3D vibration of elliptic bars, J Acoust Soc Am 98(3) 1518-1526 (Sep 1995), 1A135
Natural frequencies of a cantilever Timoshenko beam with a tip mass, Eng Trans 43(1-2) 19-26 (1995), 1A136
Nonlinear interaction of free vibrations of cylinder in water near a plane bottom, J Fluids Struct 9(6) 697-711 (Aug 1995), 1T137
Quasi-static control of natural frequencies of composite beams using embedded piezoelectric actuators, Smart Mat Struct 4(2) 106-112 (Jun 1995), 1A138
Three-dimensional vibratory characteristics of solid cylinders and some remarks on simplified beam theories, Int J Solids Struct 32(23) 3499-3513 (Dec 1995), 1A139
Vibration of rods with uniformly tapered sections, J Sound Vib 185(1) 185-189 (Aug 1995), 1T140
Structural intensity in beams-waves, transducer systems and the conditioning problem, J Sound Vib 185(2) 279-298 (Aug 1995), 1A187
Response of an elastic, plastic turbular cantilever beam subjected to a force pulse at its tip: Small deflection analysis, Int J Solids Struct 32(23) 3407-3421 (Dec 1995), 1A513
Effects of axial base excitations on the dynamic stability of spinning pre-twisted cantilever beams, J Sound Vib 185(2) 265-278 (Aug 1995), 1A671
Reconstruction of a mass-spring system from spectral data II: Experiment, Inverse Prob Eng 1(4) 315-327 (1995), 1A844
Energy flow predictions in a structure of rigidly joined beams using receptance theory, J Sound Vib 185(5) 867-890 (Sep 1995), 2A84
Crack detection from the variation of the eigenfrequencies of a beam on elastic foundation, Eng Fracture Mech 52(3) 409-421 (Oct 1995), 2A90
Dynamic analysis of a nonlinear discrete-continuous torsional system by means of wave method, Z Angew Math Mech 75(9) 691-698 (1995), 2A91
Free and forced vibrations of a Timoshenko beam with any number of translational and rotational springs and lumped masses, Commun Numer Methods Eng 11(9) 743-756 (Sep 1995), 2A92
Longitudinal vibration of rods coupled by translational springs, J Sound Vib 185(4) 717-722 (Aug 1995), 2T93
Method of images for the harmonic response of beams and rectangular plates, J Sound Vib 185(5) 791-808 (Sep 1995), 2A94
Transient response of a constrained beam subjected to narrow-brand random excitation, J Sound Vib 185(4) 723-733 (Aug 1995), 2T95
Vibration of non-uniform rods and beams, J Sound Vib 185(4) 703-716 (Aug 1995), 2A96
Vibration of pretwisted cantilever trapezoidal symmetric laminates, Acta Mech 111(3-4) 193-208 (1995), 2A97
Vibration and sound radiation of non-uniform beams, J Sound Vib 185(5) 827-843 (Sep 1995), 2A211
Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, J Sound Vib 185(4) 643-654 (Aug 1995), 2A689
Strain-based FE for the out-of-plane vibration of curved beams, Struct Eng Review 7(1) 9-13 (Feb 1995), 3A38
Motion of a rigid body with flexible rods that admits a symmetry group, Mech Solids 30(1) 1-9 (1995), 3A85
Bifurcation and chaos in a bilinear constrained column - Part I: Stability analysis and nonlinear unperturbed dynamics, Eur J Mech A 14(5) 773-788 (1995), 3A93
Bifurcation and chaos in a bilinear constrained column - Part II: Chaotic dynamics, Eur J Mech A 14(5) 789-806 (1995), 3A94
Influence of piezo-actuator thickness on the active vibration control of a cantilever beam, J Intelligent Mat Syst Struct 6(5) 610-623 (Sep 1995), 3A110
Accurate vibration frequencies of circular cylinders from 3D analysis, J Acoust Soc Am 98(4) 2136-2141 (Dec 1995), 3A114
Cauchy's problem for the generalized equation of the longitudinal vibrations of elastic rods, Eur J Mech A 14(5) 827-835 (1995), 3T115
Comparisons of vibration frequencies for rods and beams from 1D and 3D analyses, J Acoust Soc Am 98(4) 2122-2135 (Dec 1995), 3A116
Damping effect in forced vibrations of an autoparametric two-dof system, Machine Dyn Prob 10 91-104 (1995), 3A117
Dynamic behavior of a beam with an accelerating mass, Arch Appl Mech 65(8) 564-571 (Oct 1995), 3A118
Failure maps of clamped beams under impulsive loading, Mech Struct Machines 23(4) 453-472 (1995), 3A119
Flexural vibrations and stability of beams with variable parameters (Russian), Prikl Mekh (Appl Mech) 30(9) 75-81 (1994), 3A120
Free vibration analysis of anisotropic thin-walled closed-section beams, AIAA J 33(10) 1905-1910 (Oct 1995), 3A121
Optimal constrained layer damping of beams: Experimental and numerical studies, Shock Vib 2(6) 445-450 (1995), 3A122
Ultrasonic assessment of Poisson's ratio in thin rods, J Acoust Soc Am 98(5) 2694-2701 (Nov 1995), 3A123
Vibration of beams and frames by using dynamically equivalent systems, Struct Eng Review 7(1) 3-7 (Feb 1995), 3A124
Vibration of rods with a concentrated mass in the presence of non-conservative forces, Arch Appl Mech 65(8) 507-521 (Oct 1995), 3A125
Computational techniques for nonlinear dynamics of continuous systems, J Eng Mech 121(11) 1193-1199 (Nov 1995), 3A146
Dynamics of a multi-dof beam system with discontinuous support, Nonlinear Dyn 8(4) 453-466 (Dec 1995), 4A120
Complete asymptotic analogue of Timoshenko's beam vibration equation, J Sound Vib 187(4) 713-716 (Nov 1995), 4A147
Curvature-based beam elements for the analysis of Timoshenko and shear-deformable curved beams, J Sound Vib 187(4) 569-584 (Nov 1995), 4A148
Curve and surface veering for a braced column, J Sound Vib 187(5) 879-885 (Nov 1995), 4T149
Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, J Sound Vib 187(4) 683-693 (Nov 1995), 4A150
Dynamic effect of laminated beam subjected to transverse impact (Chinese), J Vib Eng 8(3) 253-257 (Sep 1995), 4A151
Dynamic response of tapered composite beams using higher order shear deformation theory, J Sound Vib 187(5) 737-756 (Nov 1995), 4A152
Dynamic response of the flow induced vibration of smooth and rough single cantilever circular cylinders, Arab J Sci Eng 20(3) 519-534 (Jul 1995), 4A153
Eigenfrequencies of the 3D Euler-Bernoulli beam system with dissipative joints, Appl Math Mech 16(8) 723-746 (Aug 1995), 4A154
Experimental investigation of vibration localization in disordered multi-span beams, J Sound Vib 187(4) 649-669 (Nov 1995), 4A155
Free vibration characteristics of variable mass rockets having large axial thrust-acceleration, J Sound Vib 187(4) 727-736 (Nov 1995), 4A156
Free vibration of a stepped composite Timoshenko cantilever beam, J Sound Vib 187(5) 886-896 (Nov 1995), 4T157
In-plane and out-of-plane free vibrations of curved beams with variable sections, J Sound Vib 187(3) 381-401 (Nov 1995), 4A158
Localization of vibration in disordered multi-span beams with damping, J Sound Vib 187(4) 625-648 (Nov 1995), 4A159
Vibration analysis of Timoshenko beams with non-homogeneity and varying cross-section, J Sound Vib 186(5) 821-835 (Oct 1995), 4A160
Vibration of a "complete" Euler-Bernoulli beam of constant depth and breadth proportional to axial coordinate raised to a positive exponent n, J Sound Vib 187(2) 311-327 (Oct 1995), 4A161
Vibrations of Timoshenko beams by variable order FEs, J Sound Vib 187(5) 841-849 (Nov 1995), 4A162
Vibration reduction of a mass-loaded beam, J Sound Vib 187(2) 213-228 (Oct 1995), 4A225
Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, Composite Struct 33(2) 77-86 (1995), 4A486
Application of genetic algorithm for the support location optimization of beams, Comput Struct 58(4) 797-800 (Feb 1996), 4A543
Beam element structural dynamics modification using experimental modal rotational data, J Vib Acoust 117(3(A)) 265-271 (Jul 1995), 5A116
Dynamic behavior of slender beams with elastic ends carrying a concentrated mass, Comput Struct 58(6) 1145-1159 (Mar 1996), 5A117
Experimental study of flexural vibration of wooden beams by Levinson beam theory, J Vib Acoust 117(3(A)) 378-380 (Jul 1995), 5T118
Free vibration of cantilevered cylinders: Effects of cross-sections and cavities, Acta Mech 113(1-4) 37-52 (1995), 5A119
Free vibration of generally layered composite beams using symbolic computations, Composite Struct 33(3) 123-134 (1995), 5A120
Longitudinal vibrations of a prismatic bar suddenly subjected to a tensile load at one end when the other is elastically restrained, J Sound Vib 185(1) 145-148 (Nov 1995), 5T121
Methods to compute dynamic response of a cantilever with a stop to limit motion, Comput Struct 58(5) 859-867 (Mar 1996), 5A122
Non-conservative instability of a Timoshenko beam subjected to a partially tangential follower force, J Sound Vib 188(1) 25-38 (13v 1995), 5A123
Nonlinear normal modes of a cantilever beam, J Vib Acoust 117(4) 477-481 (Oct 1995), 5A124
Static and dynamic characteristics of spot welded sheet metal beams, J Eng Indust 117(3) 316-322 (Aug 1995), 5A125
Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), Proc JSCE 525(I-33) 139-152 (Oct 1995), 5A126
Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), Proc JSCE 525(I-33) 171-179 (Oct 1995), 5A259
Modeling of the opening and closure of a crack, J Vib Acoust 117(3(A)) 370-377 (Jul 1995), 5A590
Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, Z Angew Math Mech 75(12) 883-888 (1995), 6A89
Damage evaluation in cracked vibrating beams using experimental frequencies and FE models, J Vib and Control 2(1) 69-86 (Feb 1996), 6A122
Dynamic analysis of a channel beam due to a moving load, J Sound Vib 188(3) 337-345 (Dec 1995), 6A123
Dynamics of linear anisotropic rods, Int J Solids Struct 33(7) 917-929 (Mar 1996), 6A124
Response moments of an elastic beam subjected to Poissonian moving loads, J Sound Vib 188(4) 479-495 (Dec 1995), 6A125
Schwingungen elastischer Kontinua (Vibration of Elastic Continua) (German) (BG Teubner, Stuttgart, 1995) 7R7
Discretization considerations in moving load FE beam models, Finite Elements Anal Des 21(3) 129-144 (Jan 1996), 7A12
Nonlinear FE approach to kineto-static analysis of elastic beams, Mech Machine Theory 31(3) 353-364 (Apr 1996), 7A15
Analysis of the flexural vibrations of a beam due to the motion of a line load, J Appl Math Mech 59(4) 599-606 (1995), 7A140
Eigenfrequencies of a cantilever beam with attached tip mass and a spring-mass system, J Sound Vib 190(2) 149-162 (Feb 1996), 7A141
Free vibration of beams and oblique panels by spline-integral method, J Sound Vib 189(1) 3-12 (Jan 1996), 7A142
Stochastic response of piping systems with flexible supports, J Pressure Vessel Tech 118(1) 109-114 (Feb 1996), 7A143
Validation of flexible beam elements in dynamics programs, Nonlinear Dyn 9(1-2) 21-36 (Feb 1996), 7A144
Vibration of a cantilevered beam during deployment and retrieval: Analysis and experiment, Smart Mat Struct 4(4) 334-339 (Dec 1995), 7A145
Vibration of a free-free beam under tensile axial loads, J Sound Vib 190(2) 273-282 (Feb 1996), 7T146
Vibrational motion of an elastic beam with prismatic and revolute joints, J Sound Vib 190(2) 195-206 (Feb 1996), 7A147
Two dof modeling of pre-cracked beams under impact, Eng Fracture Mech 53(3) 481-491 (Feb 1996), 7A851
Hybrid BEM in elastodynamics, Mech Res Commun 23(2) 205-211 (Apr 1996), 8T64
Analysis of free undamped vibration of beams of varying cross-section, Comput Struct 59(3) 479-483 (May 1996), 8A106
Crack identification in a cantilever beam under uncertain end conditions, Int J Mech Sci 38(5) 499-507 (May 1996), 8A107
Free vibrations of a complex Euler-Bernoulli beam, J Sound Vib 190(5) 852-856 (Mar 1996), 8A108
Simplified dynamic analysis of slender tapered thin-walled towers with additional mass and rigidity,

Struct Eng and Mech 3(1) 61-74 (Jan 1995), 8A109
Vibration of continuous beams using modified beam vibration functions, Commun Numer Methods Eng 12(2) 107-114 (Feb 1996), 8A110
Bending vibrations of adaptive cantilevers with external stores, Int J Mech Sci 38(5) 483-498 (May 1996), 8A150
Analysis of natural frequency and buckling on orthogonal and ortho-laid space truss by Spline-Galerkin method (Chinese), J Comput Struct Mech Appl 12(1) 60-68 (Feb 1995), 9T110
Anomalous dynamic elastic-plastic response of a Galerkin beam model, Int J Mech Sci 38(7) 687-708 (Jul 1996), 9A180
Beam length and dynamic stiffness, Comput Methods Appl Mech Eng 129(3) 311-318 (Jan 1996), 9A181
Chaotic vibrations of a nonlinear viscoelastic beam, Chaos Solitons Fractals 7(2) 151-163 (Feb 1996), 9A182
Coupled electromechanical model of an imperfect piezoelectric vibrating cylinder gyroscope, J Intelligent Mat Syst Struct 7(1) 44-53 (Jan 1996), 9A183
Dynamic response of a beam with a moving mass, J Sound Vib 191(2) 289-294 (Mar 1996), 9T184
Exact dynamic stiffness matrix of a bending-torsion coupled beam including warping, Comput Struct 59(4) 613-621 (May 1996), 9A185
Explicit solution formulae for linear distribution differential equations, Bull Polish Acad Sci Tech Sci 43(4) 413-421 (1995), 9A186
Free vibration analysis of sandwich beam with elastic or viscoelastic core by applying the discrete Green function, J Sound Vib 191(2) 189-206 (Mar 1996), 9A187
New high-order non-uniform Timoshenko beam FE on variable two-paramcter foundations for vibration analysis, J Sound Vib 191(1) 91-106 (Mar 1996), 9A188
New method for deriving eigenvalue rate with respect to support location, AIAA J 34(4) 864-866 (Apr 1996), 9T189
Reflection and transmission of the energy of transient elastic extensional waves in a bent bar, J Sound Vib 191(2) 261-272 (Mar 1996), 9A190
Vibrations of a "stiff" gravity pendulum with a particle bob, J Sound Vib 191(1) 1-14 (Mar 1996), 9A191
Static and dynamic stiffness of 1/10 tapered joints for automatic changing, Int J Japan Soc Precision Eng 29(4) 301-306 (Dec 1995), 9A227
Analysis of effect of dead loads on natural frequencies of beams using FE techniques, J Struct Eng 122(5) 512-516 (May 1996), 10A142
Approximate analytical solution of beam vibrations during axial motion, J Sound Vib 192(1) 159-171 (Apr 1996), 10A143
Dynamic force identification for beamlike structures using an improved dynamic stiffness method, Shock Vib 3(3) 183-191 (1996), 10A144
Effect of a moving mass and other parameters on the dynamic response of a simply-supported beam, J Sound Vib 191(3) 357-362 (Apr 1996), 10A145
Energy flow analysis of bars and beams: Theoretical formulations, J Sound Vib 192(1) 281-305 (Apr 1996), 10A146
Free vibration of simply-supported beam partially loaded with distributed mass, J Sound Vib 191(4) 590-597 (Apr 1996), 10T147
HLXVIB: A computer code for free vibration analysis of circular helicoidal bars, Comput Struct 59(6) 1095-1105 (Jun 1996), 10A148
Investigation of secondary periodic modes for viscoclastic rod with hereditary properties under vibration, Mech Solids 30(6) 103-109 (1995), 10A149
Modeling approach for 2D distributed transducers of arbitrary spatial distribution, J Acoust Soc Am 99(5) 2965-2974 (May 1996), 10A150
Modeling of axially-translating flexible beams, J Sound Vib 191(3) 363-376 (Apr 1996), 10A151
Non-harmonic Fourier expansions in the case of a cantilever beam with a mass-spring combination at the free end, J Sound Vib 191(5) 973-975 (Apr 1996), 10T152
Numerical-analytical method for studying natural vibrations of nonuniform rods, Mech Solids 30(5) 173-182 (1995), 10A153
Placement of passive and vibroactive objects on a floor, J Machinery Manuf Reliab 6 15-18 (1995), 10A154
Simple and effective equilibrium models for vibration analysis of curved rods, J Eng Mech 122(4) 291-299 (Apr 1996), 10A155
Thermomechanical stability of built-up stiffened structures, TsAGI 1(3) 133-145 (1994), 10T156
Vibration analysis of a 3D piping system conveying fluid by wave approach, Int J Pressure Vessels Piping 67(3) 249-256 (1996), 10A157
Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, AIAA J 34(5) 1064-1069 (May 1996), 10A198
Vibratory characteristics of pretwisted cantilever trapezoids of unsymmetric laminates, AIAA J 34(5) 1041-1050 (May 1996), 10A199
Free vibration and stability of thin elastic beams subjected to axial forces, J Sound Vib 191(5) 917-933 (Apr 1996), 10A636
Analysis of natural frequencies of delaminated composite beams based on FEM, Struct Eng and Mech 4(3) 243-255 (May 1996), 11A6
Approximate formula for the frequencies of a rotating Timoshenko beam, J Aircraft 33(3) 637-639 (Jun 1996), 11T103
Dynamic response of a beam on multiple supports with a moving mass, Struct Eng and Mech 4(3) 303-312 (May 1996), 11A104
Dynamic response of an axially loaded bending-torsion coupled beam, J Aircraft 33(3) 601-607 (Jun 1996), 11A105
Dynamic vibrations of an elastic beam in frictional contact with a rigid obstacle, J Elast 42(1) 1-30 (Jan 1996), 11A106
Free vibrations of a linearly tapered cantilever beam with constraining springs and tip mass, J Sound Vib 192(4) 905-911 (May 1996), 11T107
Free vibrations of tapered beams with flexible ends, Comput Struct 60(2) 197-202 (Jul 1996), 11A108
Multiple 3D equilibrium solutions for cantilever beams loaded by dead tip and uniform distributed loads, Int J Non-Linear Mech 31(3) 297-311 (May 1996), 11A109
Periodic solutions of a multi-dof beam system with impact, J Sound Vib 192(5) 913-925 (May 1996), 11A110
Study of torsional vibrations in systems with one dof by graphical method, Mec Appl 40(2-3) 373-384 (Jun 1995), 11A111
Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, Int J Solids Struct 33(18) 2659-2680 (Jul 1996), 11A183
Dynamics of plane motion of an elastic rod, J Appl Mech 63(2) 392-398 (Jun 1996), 12A97
Nonlinear dynamics of an elastic rod with frictional impact, Nonlinear Dyn 10(2) 187-201 (Jun 1996), 12A117
Study on vibrational damping of microcantilevers (Japanese), J Japan Soc Precision Eng 62(5) 742-746 (May 1996), 12A140
Axial force stabilization of transverse vibration in pinned and clamped beams, J Dyn Syst Meas Control 118(2) 379-380 (Jun 1996), 12A142
Design of Galerkin generalized least squares methods for Timoshenko beams, Comput Methods Appl Mech Eng 132(1-2) 1-16 (May 1996), 12A143
Direct and inverse dynamics of a very flexible beam, Comput Methods Appl Mech Eng 131(3-4) 241-261 (May 1996), 12A144
Dynamic analysis of nonuniform beams with time-dependent elastic boundary conditions, J Appl Mech 63(2) 474-478 (Jun 1996), 12A145
Elastic tripping analysis of asymmetrical stiffeners, Comput Struct 60(3) 369-389 (Aug 1996), 12A146
Finite element dynamic modeling of a translating and rotating flexible link, Comput Methods Appl Mech Eng 131(1-2) 173-189 (Apr 1996), 12A147
Finite element time domain modal formulation for large amplitude free vibrations of beams and plates, J Sound Vib 193(2) 453-464 (Jun 1996), 12A148
Forced vibration of two beams joined with a nonlinear rotational joint: Clamped and simply supported end conditions, J Sound Vib 193(2) 483-496 (Jun 1996), 12A149
Improved dynamic stiffness method and modal analysis for beam-like structures, Comput Struct 60(5) 725-731 (Jul 1996), 12A150
Initial-boundary value problem and exponential decay for a flexible-beam vibration with gain adaptive direct strain feedback control, Nonlinear Anal 27(3) 353-365 (Aug 1996), 12T151
Internal resonance of an L-shaped beam with a limit stop - Part I: Free vibration, J Sound Vib 193(5) 1023-1035 (Jun 1996), 12A152
Internal resonance of an L-shaped beam with a limit stop - Part II: Forced vibration, J Sound Vib 193(5) 1037-1047 (Jun 1996), 12A153
Oscillations of infinite periodic beams subjected to a moving concentrated force, J Sound Vib 193(3) 705-712 (Jun 1996), 12A154
Transverse vibration of a Timoshenko beam acted on by an accelerating mass, Appl Acoust 47(4) 319-330 (1996), 12A155
Constrained layer damping of tubular truss members, AIAA J 34(7) 1487-1493 (Jul 1996), 12A188

154C. Strings, cables, chains, and ropes

Active control of multimodal cable vibrations by axial support motion, J Eng Mech 121(9) 964-972 (Sep 1995), 1A141
Dynamic modeling of a trailing wire towed by an orbiting aircraft, J Guidance Control Dyn 18(4) 875-881 (Aug 1995), 1A142
Finite element modeling of transmission line galloping, Comput Struct 57(3) 407-420 (Nov 1995), 1A143
Interactions between an idealized rotating string and stationary constraints, J Sound Vib 185(1) 139-154 (Aug 1995), 1A144
Nonlinear response of a taut string to longitudinal and transverse end excitation, J Vib and Control 1(3) 307-334 (Aug 1995), 1A145
Parametric oscillations of a nonlinear string, J Sound Vib 185(1) 51-78 (Aug 1995), 1A146
Analysis of drill strings in vertical and deviated holes using the Galerkin technique, Eng Struct 17(6) 437-442 (Jul 1995), 2A98
Application of variable structure control in the nonlinear string system, Int J Mech Sci 37(9) 985-993 (Sep 1995), 2A99
Transient behavior of models of bowed-string motion, Chaos 5(3) 509-523 (Sep 1995), 2A100
Exact controllability and stabilization of a vibrating string with an interior point mass, SIAM J Control Optim 33(5) 1357-1391 (Sep 1995), 2T241
Bifurcations near 1:2 subharmonic resonance in a structural dynamics model, Chaos Solitons Fractals 5(1) 55-66 (Jan 1995), 3A126
Calculation of longitudinal oscillations of a thread of variable length with the load at its end under the load "jump" (Russian), Prikl Mekh (Appl Mech) 30(10) 69-74 (1994), 3A127
Contact-induced nonlinearity in oscillating belts and webs, J Vib and Control 1(4) 459-479 (Nov 1995), 3A128
Damping amplification in highly extensible hysteretic cables, J Sound Vib 186(3) 355-368 (Sep 1995), 3A129
Deep water mooring dynamics, Marine Struct 9(2) 181-209 (1995), 3A130
Uniform approximation of the density function of a string equation using eigenvalues and nodal points and some related inverse nodal problems, Inverse Prob 11(5) 1113-1123 (Oct 1995), 3A131
Dynamics of small-sagged taut-slack marine cables, Comput Struct 58(3) 557-562 (Feb 1996), 4A163
Nonlinear dynamic model for cables and its application to a cable-structure system, J Sound Vib 187(4) 695-712 (Nov 1995), 4A164
Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), Proc JSCE 525(I-33) 181-190 (Oct 1995), 5A127
Experimental investigation of isolated and simultaneous internal resonances in suspended cables, J Vib Acoust 117(4) 385-391 (Oct 1995), 5A128
General formulation of the theory of wire ropes, J Appl Mech 62(3) 747-755 (Sep 1995), 5A129
String bowing revisited, Z Angew Math Phys 46(6) 883-897 (Nov 1995), 5A130
Tension of conductor under concentrated loads, J Appl Mech 62(3) 802-809 (Sep 1995), 5A131
Wave propagation in strings with rigid bodies, J Vib Acoust 117(4) 493-500 (Oct 1995), 5A132
Dynamic analysis of flexible communications in systems for in-flight aircraft fueling, Russian Aeronaut 38(1) 1-5 (1995), 6A126
Optimum dynamic characteristics of Stockbridge dampers for dead-end spans, J Sound Vib 188(2) 243-256 (Nov 1995), 6A172
Bifurcations and stability of amplitude modulated planar oscillations of an orbiting string with internal resonances, Nonlinear Dyn 9(3) 305-325 (Mar 1996), 7A148
Efficient computational scheme for the vibration analysis of high tension cable nets, J Sound Vib 189(1) 55-79 (Jan 1996), 7A149
Transient behavior of towed marine cables in two dimensions, Appl Ocean Res 17(3) 143-153 (1995), 7A975
Vibrations of the string with energy dissipation and impulsive feedback support, Nonlinear Anal 26(7) 1271-1278 (Apr 1996), 8T111
Steady motions of a drawn cable, J Appl Mech 63(1) 180-189 (Mar 1996), 9A139
Comparison of the Raman and the oscillator models of string excitation by bowing, Acustica 82(1) 169-174 (Feb 1996), 9A192
Vibration control of an axially moving string by boundary control, J Dyn Syst Meas Control 118(1) 66-74 (Mar 1996), 9A193
"Direct" solution for the free vibration of a hanging uniform cord with a particle tip mass, J Sound Vib 191(3) 453-458 (Apr 1996), 10T158
Bounded-input bounded-output stability of damped linear strings, J Sound Vib 191(5) 993-998 (Apr 1996), 10T159
Damping the tension impulse in the thread on a frictional barrier, Fibres Textiles in E Europe 3(4) 22-25 (Dec 1995), 10A160
Dynamic response of a damped cable with a compliant damped support system, J Brazilian Soc Mech Sci 18(1) 8-16 (Mar 1996), 10A161
Dynamic stiffness matrix of a general cable element, Arch Appl Mech 66(5) 315-325 (Apr 1996), 10A162
Modeling chaotic motions of a string from experimental data, Physica D 92(3-4) 221-236 (May 1996), 10A163
Monte-Carlo simulations of the time-dependent failure of bundles of parallel fibers, Eur J Mech A 15(2) 243-266 (1996), 10A164
Nonlinear, non-planar transverse free vibrations of a constant-tension string, J Sound Vib 191(4) 563-575 (Apr 1996), 10A165
Shock waves in curved synthetic cables, J Eng Mech 122(4) 308-315 (Apr 1996), 10A166
Transverse vibration of a moving string: A physical overview, J Syst Eng 6(2) 61-71 (1996), 10A167
Transverse vibration of a moving string: A comparison between the closed-form solution and the normal-mode solution, J Syst Eng 6(2) 72-78 (1996), 10A168
Perturbation-based FE analyses of transmission line galloping, J Sound Vib 191(4) 469-489 (Apr 1996), 10A315
Unstable simple modes of the nonlinear string, Quart Appl Math 54(2) 287-305 (Jun 1996), 11T112
Bounded displacement of a damped nonlinear string, J Sound Vib 193(5) 1115-1121 (Jun 1996), 12T156
Structural damping of tensioned pipes with reference to cables, J Sound Vib 193(4) 891-907 (Jun 1996), 12A157

154D. Rings

Vibrations of non-uniform rings studied by means of the differential quadrature method, J Sound Vib 185(3) 507-513 (Aug 1995), 1A147
Dynamic response of elasto-plastic planar arches, Struct Eng and Mech 4(1) 9-23 (Jan 1996), 8A419

154E. Springs

Nonlinear dynamics of coupled chains of particles, J Appl Math Mech 59(3) 353-361 (1995), 4A165
Investigation of parameters affecting free-vibration frequency of helical springs, Int J Numer Methods Eng 39(1) 99-114 (Jan 1996), 5A133
Power dissipation in a sprung mass attached to a master structure, J Acoust Soc Am 98(6) 3527-3533 (Dec 1995), 5A134
Slightly damped uniform n-mass oscillator, Comput Struct 59(5) 797-803 (Jun 1996), 9A194

154F. Membranes

Active control of a circular membrane to reduce transient noise transmission, J Vib Acoust 117(3A(I)) 252-258 (Jul 1995), 5A276
New analytical solution for the load-deflection of square membranes, J Microelectromechanical Syst 4(4) 238-241 (Dec 1995), 5A354
Calculation of the eigenmodes of a non-homogeneous clamped membrane, Acoust Lett 18(10) 185-188 (Apr 1995), 6A127
Effect of attachments on the natural frequencies of a membrane, J Sound Vib 188(5) 760-766 (Dec 1995), 6T128
Mode shapes of the Helmholtz equation, J Sound Vib 188(3) 419-433 (Dec 1995), 6A129
Spring suspended corrugated membranes, J Microtech Microeng 5(4) 289-296 (Dec 1995), 6T351
Schwingungen elastischer Kontinua (Vibration of Elastic Continua) (German) (BG Teubner, Stuttgart, 1995) 7R7
Asymptotic formula for correcting FE predicted natural frequencies of membrane vibration problems, Commun Numer Methods Eng 12(1) 63-73 (Jan 1996), 7A150
Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, J Intelligent Mat Syst Struct 7(1) 25-32 (Jan 1996), 9A195
Model of motion of a deformable wheel, Mech Solids 30(6) 16-22 (1995), 10T85
Free vibration analysis of membranes using wave-type base functions, J Acoust Soc Am 99(5) 2938-2946 (May 1996), 10A169
Vibrational energy flows between coupled membranes, J Sound Vib 192(1) 139-158 (Apr 1996), 10A170
Application of the Taylor-Galerkin FE and Godunov-type finite difference methods to finite amplitude axisymmetric waves in hyperelastic membranes, J Sound Vib 192(1) 223-244 (Apr 1996), 10A270
A-posteriori error estimators-correctors for natural frequencies of membrane vibration problems, Comput Struct 60(2) 181-187 (Jul 1996), 11A113
Extension of spline wavelets element method to membrane vibration analysis, Comput Mech 18(1) 46-54 (May 1996), 12A158

154G. Plates

Comparative study of vibrations of elasto-viscoplastic shells and plates, Eng Trans 43(1-2) 183-204 (1995), 1A148
Exact free-vibration analysis of laminated plates with embedded piezoelectric layers, J Acoust Soc Am 98(3) 1547-1557 (Sep 1995), 1A149
Natural frequencies of edge restrained tapered rectangular plates, J Sound Vib 185(2) 335-343 (Aug 1995), 1A150
Natural frequencies of elastically restrained rectangular plates using a set of static beam functions in the Rayleigh-Ritz method, Comput Struct 57(4) 731-735 (Nov 1995), 1A151
Natural frequencies of plates with arbitrary concentrated mass and stiffness modifications, Comput Struct 57(4) 721-729 (Nov 1995), 1A152
Nonlinear analysis using a modal-based reduction technique, Composite Struct 31(4) 257-263 (1995), 1A153
Simple FE analysis of axisymmetric vibration of annular and circular plates, Int J Mech Sci 37(8) 861-871 (Aug 1995), 1A154

Dynamic stability of a plate on multiple line and point supports subject to pulsating conservative in-plane loads, J Sound Vib 185(2) 345-356 (Aug 1995), 1A670

Method of images for the harmonic response of beams and rectangular plates, J Sound Vib 185(5) 791-808 (Sep 1995), 2A94

Analysis of orthotropic plate structures by the direct-dynamic stiffness method, Mech Res Commun 22(5) 461-466 (Oct 1995), 2T101

Large amplitude vibration of corrugated annular plates, J Sound Vib 185(5) 902-907 (Sep 1995), 2T102

Lowest axisymmetric frequency of vibration of a circular plate partially embedded in a Winkler foundation, J Sound Vib 185(5) 915-919 (Sep 1995), 2T103

Method of collocation by derivatives in the study of axisymmeric vibrations of circular plates, Comput Struct 57(5) 841-845 (Dec 1995), 2A104

Nonlinear vibrations of cross-ply plates, Comput Struct 57(6) 1107-1108 (Dec 1995), 2A105

Transverse vibration of a quarter of an elliptic plate with variable thickness, Int J Mech Sci 37(10) 1103-1132 (Oct 1995), 2A106

Vibrations of a rectangular plate of non-uniform thickness partially embedded in a Winkler medium, J Sound Vib 185(5) 910-914 (Sep 1995), 2T107

Vibration of point supported triangular plates, Comput Struct 58(2) 327-336 (Jan 1996), 3A132

Vibration of stiffened skew Mindlin plates, Acta Mech 112(1-4) 11-28 (1995), 3A133

Vibrational transmission between flanged plates (Chinese), J Vib Eng 8(2) 99-110 (Jun 1995), 3A263

Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics (Elsevier Sci, New York, 1994) 4R4

Applicability of the energy method to nonlinear vibrations of thin rectangular plates, J Sound Vib 187(2) 346-357 (Oct 1995), 4T166

Free vibration analysis of anisotropic rectangular plates with various boundary conditions, J Sound Vib 187(5) 757-770 (Nov 1995), 4A167

Free vibration of a rectangular plate loaded by a non-uniform in-plane force, J Sound Vib 187(2) 339-343 (Oct 1995), 4A168

Interaction between forced and combination resonances, J Sound Vib 187(1) 51-67 (Oct 1995), 4A169

Nonlinear damped vibrations of simply-supported rectangular sandwich plates, Nonlinear Dyn 8(4) 417-433 (Dec 1995), 4A170

Reanalysis of plates modified by free damping layer treatment, Comput Struct 58(3) 535-541 (Feb 1996), 4A171

Sinusoidal stiffness matrix for buckling and vibration analyses of rectangular Mindlin plates, J Sound Vib 187(3) 435-449 (Nov 1995), 4A172

Plane progressive waves in anisotropic constrained materials with an application to Kirchhoff plate-like bodies, Eur J Mech A 14(6) 921-938 (1995), 4A240

Transient deformation modes of square plates subjected to explosive loadings, Int J Solids Struct 33(3) 301-314 (Jan 1996), 4A254

Accurate vibration analysis of simply supported rhombic plates by considering stress singularities, J Vib Acoust 117(3(A)) 245-251 (Jul 1995), 5A135

Vibration of annular, circular, and sectorial plates with cut-outs or on partial supports, Comput Struct 58(6) 1261-1264 (Mar 1996), 5A136

Dynamic formulation for geometrically exact sandwich beams and 1D plates, J Appl Mech 62(3) 756-763 (Sep 1995), 5A145

Inverse problem of rectangular plates subjected to elastic impact - Part I: Method development and numerical verification, J Appl Mech 62(3) 692-698 (Sep 1995), 5A188

Inverse problem of rectangular plates subjected to elastic impact - Part II: Experimental verification and further applications, J Appl Mech 62(3) 699-705 (Sep 1995), 5A189

Natural vibration of a cavity backed rectangular plate using a receptor-rejector system model, J Vib Acoust 117(4) 416-423 (Oct 1995), 5A279

Vibration control of plates by plate-type dynamic vibration absorbers, J Vib Acoust 117(3(A)) 332-338 (Jul 1995), 5A701

Dynamic responses of shallow-buried flexible plates subjected to impact loading, J Struct Eng 122(1) 55-60 (Jan 1996), 6A130

Examples of using structural intensity and the force distribution to study vibrating plates, J Acoust Soc Am 99(1) 354-361 (Jan 1996), 6A131

Forced vibration of antisymmetric angle-ply laminated plates with various boundary conditions, J Sound Vib 188(2) 257-267 (Nov 1995), 6A132

Free-vibration analysis of compressed clamped circular plates, J Eng Mech 121(12) 1372-1376 (Dec 1995), 6A133

Frequency-load interaction of geometrically imperfect curved panels subjected to heating, AIAA J 34(1) 166-177 (Jan 1996), 6A134

Geometrically nonlinear axisymmetric vibrations of polar orthotropic circular plates, Int J Mech Sci 38(3) 325-333 (Mar 1996), 6A135

Large amplitude vibration of plates according to a higher order deformation theory, J Sound Vib 188(2) 149-166 (Nov 1995), 6A136

Measuring the structural intensity and force distribution in plates, J Acoust Soc Am 99(1) 345-353 (Jan 1996), 6A137

Shape control of vibrating simply supported rectangular plates, AIAA J 34(1) 116-122 (Jan 1996), 6A138

Three-dimensional vibration of laminated composite plates and cylindrical panels with arbitrarily located lateral surfaces point supports, Int J Mech Sci 38(3) 271-281 (Mar 1996), 6A139

Vibrational behavior of a population of coupled plates: Hypersensitivity to the connexion angle, J Sound Vib 188(3) 435-454 (Dec 1995), 6A140

Natural frequencies and modes of free-edge circular plates vibrating in vacuum or in contact with liquid, J Sound Vib 188(5) 685-699 (Dec 1995), 6A211

Influence of stiffness and boundary conditions of thin rectangular plates on radiated acoustic power, Appl Acoust 46(4) 345-362 (1995), 6A232

Dynamics and control of nonlinear circular plates with piezoelectric actuators, J Sound Vib 188(2) 189-207 (Nov 1995), 6A728

Schwingungen elastischer Kontinua (Vibration of Elastic Continua) (German) (BG Teubner, Stuttgart, 1995) 7R7

Accurate free vibration analysis of the completely free rectangular Mindlin plate, J Sound Vib 189(3) 341-353 (Jan 1996), 7A151

Bending, free vibration and impact response of thick laminated composite plates, Comput Struct 59(1) 115-129 (Apr 1996), 7A152

Contact interaction of the crack edges in a plane under harmonic load, Prikl Mekh (Appl Mech) 30(12) 75-79 (1994), 7A153

Differential quadrature and Rayleigh-Ritz methods to determine the fundamental frequencies of simply supported rectangular plates with linearly varying thickness, J Sound Vib 189(1) 103-122 (Jan 1996), 7A154

Dynamic response of rectangular plates of composite materials subjected to impact loads, Composite Struct 34(1) 55-63 (1996), 7A155

Effect of normal mode contents in assumed deflection shapes in Rayleigh-Ritz method, J Sound Vib 189(3) 407-419 (Jan 1996), 7A156

Free vibration analysis of tapered rectangular plates by differential quadrature method: A semi-analytical approach, J Sound Vib 190(1) 41-63 (Feb 1996), 7A157

Free vibration of cantilevered arbitrary triangular Mindlin plates, Int J Mech Sci 38(4) 431-442 (Apr 1996), 7A158

Free vibrations of clamped symmetrically laminated skew plates, J Sound Vib 189(4) 525-533 (Feb 1996), 7A159

Natural frequencies of orthotropic rectangular plates obtained by iterative reduction of the partial differential equation, J Sound Vib 189(1) 89-101 (Jan 1996), 7A160

Natural frequencies of rectangular plates using a set of static beam functions in Rayleigh-Ritz method, J Sound Vib 189(1) 81-87 (Jan 1996), 7A161

Natural vibration analysis of clamped rectangular orthotropic plates, J Sound Vib 189(3) 399-406 (Jan 1996), 7A162

Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, Composite Struct 34(1) 29-42 (1996), 7A163

Peculiarities of dynamic deformation of a round plate with holes, Prikl Mekh (Appl Mech) 31(2) 39-42 (1995), 7A164

Resonance contour oscillations of a piezoelectric plate with antoadjusted frequency (Russian), Prikl Mekh (Appl Mech) 31(4) 48-54 (1995), 7A165

Semi-analytical solution for the dynamic response of thick composite plates in Hamilton systems, Finite Elements Anal Des 21(3) 201-212 (Jan 1996), 7A166

Special features of problems of the stability and vibrations of rectangular plates, J Appl Math Mech 59(4) 593-597 (1995), 7A167

Transverse vibration of a circular plate with unidirectional quadratic thickness variation, Int J Mech Sci 38(4) 423-430 (Apr 1996), 7A168

Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate, J Acoust Soc Am 99(2) 942-953 (Feb 1996), 7A169

Static and dynamic behavior of square plates with inhomogeneity subjected to non-uniform edge loading: Compression and tension, Struct Eng and Mech 4(2) 163-176 (Mar 1996), 8A19

Differential quadrature method for irregular domains and application to plate vibration, Int J Mech Sci 38(6) 589-606 (Jun 1996), 8A51

Validation of a numerical method for extracting liner impedance, AIAA J 34(3) 548-554 (Mar 1996), 8A105

Conservation laws and group-invariant solutions of the von Karman equations, Int J Non-Linear Mech 31(1) 73-87 (Jan 1996), 8A112

Dynamic modeling of elastic wavy plates, Arch Appl Mech 66(3) 177-186 (Jan 1996), 8A113

Effect of partial clamping on bending-torsion modal parameters of cantilevered swept and tapered plates, J Sound Vib 190(4) 733-738 (Mar 1996), 8A114

Free vibration on stiffened sector plates, J Sound Vib 190(4) 726-732 (Mar 1996), 8A115

Free vibrations of a snowboard, Int J Mech Sci 38(6) 579-588 (Jun 1996), 8A116

Refined theory for vibrations and buckling of laminated isotropic annular plates, Int J Mech Sci 38(5) 539-555 (May 1996), 8A117

Semianalytical differential quadrature solution for free-vibration analysis of rectangular plates, AIAA J 34(3) 601-606 (Mar 1996), 8A118

Study of the forced response of a clamped circular plate coupled to a uni-dimensional acoustic cavity, J Sound Vib 190(4) 661-675 (Mar 1996), 8A119

Vibration and stability analyses of thick anisotropic composite plates by finite strip method, Struct Eng and Mech 3(1) 49-60 (Jan 1995), 8A120

Vibration frequencies for elliptical and semi-elliptical Mindlin plates, Struct Eng and Mech 3(1) 35-48 (Jan 1995), 8A121

Vibration of a simply supported rectangular elastic plate due to piezoelectric actuators, Int J Solids Struct 33(11) 1597-1618 (May 1996), 8A122

Plate backed by a cavity: The features of dynamic instability, J Sound Vib 190(5) 775-789 (Mar 1996), 8A228

Analysis of geometric fatigue stresses in slender web plates, J Construct Steel Res 37(1) 33-45 (1996), 8A685

Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, Composite Struct 34(2) 129-143 (1996), 9A18

Stability and vibration of a rotating circular plate subjected to stationary in-plane edge loads, J Appl Mech 63(1) 121-127 (Mar 1996), 9A143

Exact boundary condition perturbation solutions in eigenvalue problems, J Appl Mech 63(1) 128-135 (Mar 1996), 9A170

A-posteriori error estimator-corrector for natural frequencies of thin-plate vibration problems, Comput Struct 59(5) 949-963 (Jun 1996), 9A196

Application of moments method to the plastic dynamic response of damping medium simple square-plate (Chinese), J Comput Struct Mech Appl 13(1) 112-117 (Feb 1996), 9T197

Application of the dynamic stiffness technique to the in-plane vibrations of plate structures, Comput Struct 59(5) 869-875 (Jun 1996), 9A198

Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, Composite Struct 34(2) 145-162 (1996), 9A199

Implementing multiple boundary conditions in the DQ solution of higher-order PDEs: Application to free vibration of plates, Int J Numer Methods Eng 39(7) 1237-1258 (Apr 1996), 9A200

Natural vibrations of an anisotropic plate, Prikl Mekh (Appl Mech) 31(8) 34-40 (1995), 9A201

Note on numerical experiments in transverse vibrations of annular circular plates, J Sound Vib 191(1) 167-170 (Mar 1996), 9T202

Vibrational analysis of mass loaded plates and shallow shells by the receptance method with application to the steelpan, J Sound Vib 191(2) 207-217 (Mar 1996), 9A203

Hydroelastic vibration of rectangular plates, J Appl Mech 63(1) 110-115 (Mar 1996), 9A307

Acoustic properties of an infinite elastic plate backed by multiple layers, Acustica 82(1) 45-53 (Feb 1996), 9A339

Structure-born sound transmission between thin orthotropic plates: Analytical solutions, J Sound Vib 191(1) 75-90 (Mar 1996), 9A343

Dynamic stiffness analysis of laminated composite plates, Thin-Walled Struct 25(2) 109-133 (1996), 9A593

Vibrations of Elastic Plates: Linear and Nonlinear Dynamical Modeling of Sandwiches, Laminated Composites, and Piezoelectric Layers (Springer-Verlag, New York, 1996) 10R9

Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, J Construct Steel Res 37(2) 93-113 (1996), 10A9

Assessment of the effects of in-plane vibrations on the energy flow between coupled plates, J Sound Vib 191(5) 661-680 (Apr 1996), 10A171

Axisymmetric vibration of a circular plate with exponential thickness variation, J Sound Vib 192(1) 35-42 (Apr 1996), 10A172

Free in-plane vibration of isotropic rectangular plates, J Sound Vib 191(3) 459-467 (Apr 1996), 10T173

Full-field random bending strain measurement of a plate from vibration measurements, J Sound Vib 191(5) 847-858 (Apr 1996), 10A174

Identification of energy sources and sinks in plates by means of a scanning laser Doppler vibrometer, Noise Control Eng J 44(2) 61-68 (Apr 1996), 10A175

Note on transverse, axisymmetric vibrations of annular plates of non-uniform thickness, J Sound Vib 191(4) 584-589 (Apr 1996), 10T176

Shifting resonances from a frequency band by applying concentrated masses to a thin rectangular plate, J Sound Vib 192(2) 549-562 (May 1996), 10A177

Static, free vibration and thermal analysis of composite plates and shells using a flat triangular shell element, Comput Mech 17(5) 343-357 (Mar 1996), 10A178

Use of an "Ectoplasm" to predict free vibrations of plates with cut-outs, J Sound Vib 191(5) 935-954 (Apr 1996), 10A179

Realization of optimal results in adaptive active vibration control (Chinese), J Vib Eng 9(1) 16-23 (Mar 1996), 10A441

Free vibration analysis of rectangular Mindlin plates with elastic restraints uniformly distributed along the edges, J Sound Vib 192(4) 885-904 (May 1996), 11A114

Nonlinear dynamic response of a nonuniform orthotropic circular plate under random excitation, Comput Struct 60(1) 113-123 (Jul 1996), 11A115

Vibration analysis of curved panels with variable thickness, Eng Comput 13(2/3/4) 226-239 (1996), 11A116

Vibration of plates on 2D periodic point supports, J Sound Vib 192(3) 629-643 (May 1996), 11A117

Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), Proc JSCE 537(I-35) 53-60 (Apr 1996), 11A118

Nonlinear dynamic instability of laminated composite plates using FEM, Comput Struct 60(1) 125-130 (Jul 1996), 11A554

Optimization of linear segmented circular Mindlin plates for maximum fundamental frequency, Struct Optim 11(2) 128-133 (Apr 1996), 11A730

Finite element time domain modal formulation for large amplitude free vibrations of beams and plates, J Sound Vib 193(2) 453-464 (Jun 1996), 12A148

Corner stress singularity effects on the vibration of rhombic plates with combinations of clamped and simply supported edges, J Sound Vib 193(3) 555-580 (Jun 1996), 12A159

Effect of Poisson's ratio on the fundamental frequency of transverse vibration and buckling load of circular plates with variable profile, Appl Acoust 47(3) 263-273 (1996), 12A160

Effects of slots on the lateral vibration of circular saw blade, Int J Machine Tools Manuf 36(7) 771-787 (Jul 1996), 12A161

Influence of transverse shear and rotatory inertia on nonlinear vibrations of circular plates, Comput Struct 60(4) 613-618 (Jun 1996), 12A162

Large deflection dynamic response of composite laminated plates under lateral loads, Marine Struct 9(9) 825-848 (1996), 12A163

Natural frequencies of circular plates including the effects of transverse shear and rotary inertia, J Sound Vib 193(5) 1122-1124 (Jun 1996), 12T164

Nonlinear behavior of thin elastic plates, J Machinery Manuf Reliab 1 27-34 (1996), 12T165

Optimal design of internal ring support for rectangular plates against vibration or buckling, J Sound Vib 193(2) 545-554 (Jun 1996), 12A166

Small amplitude vibrations of pre-stressed laminates, Int J Eng Sci 34(8) 853-872 (Jun 1996), 12A167

Statistical energy analysis of two edge-coupled rectangular plates: Ensemble averages, J Sound Vib 193(4) 793-822 (Jun 1996), 12A168

Transient response of sandwich plates in contact with water, Comput Struct 60(4) 677-681 (Jun 1996), 12A169

Transverse vibration of a plate moving over multiple point supports, Appl Acoust 47(4) 291-302 (1996), 12A170

Vibration of rectangular plates using plate characteristic functions as shape functions in the Rayleigh-Ritz method, J Sound Vib 193(2) 497-509 (Jun 1996), 12A171

Effect of finite fluid depth on the hydroelastic vibrations of circular and annular plates, J Sound Vib 193(4) 909-925 (Jun 1996), 12A260

Sound energy flow in the acoustic near field of a vibrating plate, Mech Syst Signal Processing 10(3) 351-364 (May 1996), 12A274

Evolutionary natural frequency optimization of thin plate bending vibration problems, Struct Optim 11(3-4) 244-251 (Jun 1996), 12A813

Optimal locations of point supports in plates for maximum fundamental frequency, Struct Optim 11(3-4) 170-177 (Jun 1996), 12A819

154H. Shells

Comparative study of vibrations of elasto-viscoplastic shells and plates, Eng Trans 43(1-2) 183-204 (1995), 1A148

Dynamic analysis of shells, Shock Vib 2(5) 413-426 (1995), 1A155

Generalized variational priciples for the natural frequencies of elastic cylindrical shells, Int J Pressure Vessels Piping 65(1) 21-25 (1996), 1A156

Spatial decay estimates for solutions describing harmonic vibrations in a thermoelastic cylinder, J Thermal Stresses 18(4) 421-436 (Aug 1995), 1A157

Coupled vibration and natural frequency analysis of isotropic cylinders or disks of finite dimensions, J Sound Vib 185(2) 193-199 (Aug 1995), 1A159

[1,2]-order theory for elastodynamic analysis of thick orthotropic shells, Int J Solids Struct 32(22) 3237-3260 (Nov 1995), 1A626

Fluid-Structure Interaction and Structural Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N14

Analysis of rotating laminated cylindrical shells by different thin shell theories, J Sound Vib 186(1) 23-35 (Sep 1995), 2A108

Boundary-domain element method for free vibration of moderately thick laminated orthotropic shallow shells, Int J Solids Struct 33(1) 11-18 (Jan 1996), 2A109

Distributed transfer function method for analysis of cylindrical shells, AIAA J 33(9) 1698-1708 (Sep 1995), 2A110

Finite element modeling of shell of revolution with ring beams at joints, Asian J Struct Eng 1(1) 71-82 (1995), 2A111

Free vibration of shallow shells, J Sound Vib 185(4) 673-684 (Aug 1995), 2A112

Torsional oscillations of anisotropic hollow circular cylinders, Acoust Lett 18(6) 99-102 (Dec 1994), 2A113

Vibrations of arbitrarily laminated fiber reinforced composite material truncated conical shell, J Reinforced Plastics Composites 14(9) 923-948 (Sep 1995), 2A114

Axisymmetric vibration of multilayered conical shells with core layers of viscoelastic material, Comput Struct 58(2) 389-406 (Jan 1996), 3A134

Natural frequencies of cylindrical shells using a shallow-shell FE, Struct Eng Review 7(1) 35-40 (Feb 1995), 3A135

Scattering on a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, Comp Assisted Mech Eng Sci 2(3) 207-229 (1995), 3A136

Study of self-organization in dynamics of shells (Russian), Prikl Mekh (Appl Mech) 30(9) 41-45 (1994), 3A137

Vibrations of a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, Comp Assisted Mech Eng Sci 2(3) 187-206 (1995), 3A138

Dynamic response of cross-ply laminated circular cylindrical shells with various boundary conditions, Acta Mech 112(1-4) 117-134 (1995), 3A140

Transient interaction of a spherical shell with an underwater explosion shock wave and subsequent pulsating bubble, Shock Vib 2(6) 451-460 (1995), 3A197

Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), J Vib Eng 8(2) 111-118 (Jun 1995), 3A216

Axisymmetric vibration of a long cylinder, J Sound Vib 186(5) 711-721 (Oct 1995), 4A173

Comparative dynamic studies for symmetric cross-ply circular cylindrical shells on the basis of a unified shear deformable shell theory, J Sound Vib 187(4) 609-624 (Nov 1995), 4A174

Correlation between experimental and theoretical modal properties of an echinodome, Modal Analysis 10(4) 204-223 (Oct 1995), 4A175

Influence of enclosed air on vibration modes of a shell structure, J Sound Vib 187(3) 451-466 (Nov 1995), 4A176

Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, Comput Methods Appl Mech Eng 127(1-4) 145-162 (Nov 1995), 4A177

Vibration of shallow conical shells with shear flexibility: A first-order theory, Int J Solids Struct 33(4) 451-468 (Feb 1996), 4A178

Vibrations of cylindrical shells with intermediate supports, J Sound Vib 187(1) 69-93 (Oct 1995), 4A179

Vibration analysis of cylindrical shells in contact with an annular fluid region, Eng Struct 17(10) 714-724 (Dec 1995), 4A289

Sound radiation from finite cylindrical shells, partially covered with longitudinal strips of compliant layer, J Sound Vib 186(5) 723-742 (Oct 1995), 4A319

Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), J Vib Eng 8(3) 258-263 (Sep 1995), 4A323

Free vibration and stability analysis of shells by the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 53-82 (1996), 5A11

Semi-analytical study of free vibration of composite shells of revolution based on the Reissner-Mindlin assumption, Int J Solids Struct 33(6) 851-863 (Mar 1996), 5A137

Transverse vibrations of a cantilever composite cylindrical shell with ring-shaped stiffening ribs, Mech Solids 30(2) 132-139 (1995), 5A138

Vibration and damping analysis of multilayered conical shells, Composite Struct 33(3) 143-157 (1995), 5A139

Vibration of stress-free hollow cylinders of arbitrary cross section, J Appl Mech 62(3) 718-724 (Sep 1995), 5A140

Vibrations of solid cylinders revisited, J Appl Mech 62(3) 818-819 (Sep 1995), 5T141

Sound radiation by a baffled shell: Comparison of the exact and an approximate solution, J Sound Vib 188(1) 111-130 (Nov 1995), 5A257

Vibrations of composite noncircular cylindrical shells, J Vib Acoust 117(4) 470-476 (Oct 1995), 5A481

Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, Composite Struct 33(3) 135-142 (1995), 5A516

Accurate analysis of free vibration of open circular cylindrical shells, J Sound Vib 188(3) 315-336 (Dec 1995), 6A141

Effects of boundary conditions on frequencies of a multi-layered cylindrical shell, J Sound Vib 188(3) 363-384 (Dec 1995), 6A142

Modeling the vibration of a variable thickness ellipsoidal dish with central point clamp or concentric surface clamp, J Acoust Soc Am 99(1) 362-372 (Jan 1996), 6A143

Vibratory behavior of doubly curved shallow shells of curvilinear planform, J Eng Mech 121(12) 1277-1283 (Dec 1995), 6A144

Analysis of free damped vibrations of laminated composite cylindrical shells, Mech of Composite Mat 31(5) 646-659 (Oct 1995), 7A170

Free and forced vibration of a cylindrical shell with a floor partition, J Sound Vib 190(1) 21-40 (Feb 1996), 7A171

Free vibration analysis of thin cylindrical shells by the differential quadrature method, J Pressure Vessel Tech 118(1) 1-12 (Feb 1996), 7A172

Investigation of free vibration of flexible shells with finished shear rigidity by Neumark method (Russian), Prikl Mekh (Appl Mech) 31(4) 21-28 (1995), 7A173

Nonaxisymmetric dynamic response of imperfectly bonded buried fluid-filled orthotropic cylindrical shells, J Pressure Vessel Tech 118(1) 64-73 (Feb 1996), 7A174

Approximate equations for calculation of natural frequencies of oscillations of longitudinally supported cylindrical shells obtained using the precised theory (Russian), Prikl Mekh (Appl Mech) 31(3) 40-44 (1995), 7A188

Free vibration analysis of cantilever cylindrical tanks, Struct Eng and Mech 3(1) 25-34 (Jan 1995), 8A123

Free vibration of thick-walled laminated conical tubes, Comput Struct 59(3) 397-405 (May 1996), 8A124

Modified ODE-solver for vibration of tube-in-tube structures, Comput Methods Appl Mech Eng 129(1-2) 151-156 (Jan 1996), 8A125

Numerical computation of weak solutions of nonlinear motion equations stiffened cylindrical shells (Russian), Mech of Composite Mat 31(6) 808-815 (Dec 1995), 8A126

Vibration of doubly-curved shallow shells, Acta Mech 114(1-4) 95-119 (1996), 8A127

Natural frequencies of cross-ply laminated singly-curved panels, Mech Res Commun 23(2) 165-170 (Apr 1996), 8A137

Investigation of wave processes in shells and plates with regard to transverse normal and shear deformation (Russian), Mech of Composite Mat 31(6) 816-823 (Dec 1995), 8A492

Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, Struct Eng and Mech 4(2) 111-124 (Mar 1996), 8A731

Nonlinear dynamics of unidirectional, fiber-reinforced tori, J Eng Mech 122(3) 271-276 (Mar 1996), 8A776

Direct perturbation method of nonlinear vibration frequency about elastic circular cone flat shell of axial symmetry (Chinese), J Comput Struct Mech Appl 13(1) 106-111 (Feb 1996), 9A121

Vibrational analysis of mass loaded plates and shallow shells by the receptance method with application to the steelpan, J Sound Vib 191(2) 207-217 (Mar 1996), 9A203

Vibration analysis of cantilevered shallow shells with triangular and trapezoidal planforms, J Sound Vib 191(2) 219-231 (Mar 1996), 9A204

Thermomechanical stability of built-up stiffened structures, TsAGI 1(3) 133-145 (1994), 10T156

Antisymmetric vibrations of multilayered conical shells with constrained viscoelastic layers, Int J Solids Struct 33(16) 2331-2355 (Jul 1996), 10A180

Axisymmetric vibrations of elastic-plastic cylindrical shells by Galerkin's method, Int J Impact Eng 18(5) 489-504 (Jul 1996), 10A181

Effect of axial load on free vibration of orthotropic truncated conical shells, J Vib Acoust 118(2) 164-168 (Apr 1996), 10A182

Explicit method for the free vibrations of non-circular cylindrical panels, J Sound Vib 191(5) 681-694 (Apr 1996), 10A183

Finite element free vibration analysis of doubly-curved laminated composite shells, J Sound Vib 191(4) 491-504 (Apr 1996), 10A184

Frequency response of shell-plate combinations, Comput Struct 59(6) 1083-1094 (Jun 1996), 10A185

Large amplitude vibrations of circular cylindrical shells, J Sound Vib 192(1) 1-14 (Apr 1996), 10A186

Refined dynamic equations for multilayer shells with transversely soft fillers, Mech Solids 30(5) 136-145 (1995), 10A187

Sensitivity analysis for the dynamic response of thermoviscoplastic shells of revolution, Comput Methods Appl Mech Eng 129(4) 371-391 (Feb 1996), 10A188

Vibration of a spinning cylindrical shell with internal-external ring stiffeners, J Vib Acoust 118(2) 227-236 (Apr 1996), 10A189

Wave motion of an unbounded cylindrical shell with variable parameters, Mech Solids 30(6) 117-125 (1995), 10A190

Response and eigenfrequencies of rotating composite cylindrical shells, J Sound Vib 192(1) 65-77 (Apr 1996), 10A194

Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, Shock Vib 3(3) 169-181 (1996), 10A275

Natural frequencies of an elastic spherically-isotropic hollow sphere submerged in a compressible fluid medium, J Sound Vib 192(1) 173-198 (Apr 1996), 10A307

Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, Finite Elements Anal Des 21(4) 265-289 (Apr 1996), 11A34

A B-spline FE for the dynamic analysis of sandwich shells of revolution, Eng Comput 13(2/3/4) 240-262 (1996), 11A119

Dynamic analysis of 3D lattice flat shells (Chinese), J Comput Struct Mech Appl 13(2) 231-240 (May 1996), 11T120

Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, Composite Struct 34(2) 349-355 (1996), 11A121

Free vibrations of viscoelastic orthotropic shallow shells, Acta Tech CSAV 41(1) 75-95 (1996), 11A122

Modal precession of a rotating hemispherical shell, Int J Solids Struct 33(19) 2739-2757 (Aug 1996), 11A123

Nonaxisymmetric free vibrations of a spherically isotropic spherical shell embedded in an elastic medium, Int J Solids Struct 33(18) 2575-2590 (Jul 1996), 11A124

Nonlinear thermal vibration of nonhomogeneous elastic shell, Mec Appl 40(4-6) 529-537 (Dec 1995), 11A125

Dynamic response of laminated orthotropic spherical shells including transverse shear deformation and rotatory inertia, Appl Math Mech 17(3) 205-212 (Mar 1996), 11A520

Efficient approach for free vibration analysis of conical shells, Int J Mech Sci 38(8-9) 935-949 (Sep 1996), 12A172

Optimal design by genetic algorithm for maximum fundamental frequency of laminated shallow shells, Adv Composites Letters 5(1) 21-24 (1996), 12A173

Simple model of a stiffened shell-type structure for an investigation into the vibration-buckling correlation, J Appl Mech 63(2) 517-522 (Jun 1996), 12A174

Simplified displacement-rotation form for the equations of motion of nonlinearly elastic shells of revolution undergoing combined bending and torsion, J Appl Mech 63(2) 539-542 (Jun 1996), 12A175

Vibration and damping analysis of fiber reinforced composite material conical shells, J Sound Vib 193(3) 581-595 (Jun 1996), 12A176

Vibration of ring-stiffened circular cylinders under external water pressure, Comput Struct 60(6) 1013-1019 (Jul 1996), 12A177

Response of lateral impulse on liquid helium sloshing with baffle effect in microgravity, Int J Mech Sci 38(8-9) 951-965 (Sep 1996), 12A259

Impact response of doubly curved laminated composite shells using higher-order shear deformation theories, J Reinforced Plastics Composites 15(6) 575-601 (Jun 1996), 12A597

154I. Plates and shells (thick)

Free vibration of thick multilayer cylinders, Shock Vib 2(5) 393-401 (1995), 1A158

Layer-wise analysis for free vibration of thick composite cylindrical shells, J Sound Vib 186(2) 207-222 (Sep 1995), 2A119

Vibration analysis of rectangular isotropic thick plates using Mindlin plate characteristic functions, J Sound Vib 187(5) 865-877 (Nov 1995), 4A180

Application of the spline prism method to analyse vibration of thick circular cylindrical panels, Int J Solids Struct 33(7) 967-976 (Mar 1996), 6A152

First-mode approximations of mass and compliance of a circular plate elastically restrained against rotation along the edge, J Sound Vib 189(4) 543-546 (Feb 1996), 7A175

Nonlinear theory and vibration analysis of laminated truncated, thick, conical shells, Int J Non-Linear Mech 31(2) 139-154 (Mar 1996), 10A191

Three-dimensional analysis of the free vibration of thick rectangular plates with depressions, grooves, or cut-outs, J Vib Acoust 118(2) 184-189 (Apr 1996), 10A192

Vibrational modes of thick cylinders of finite length, J Sound Vib 191(5) 955-971 (Apr 1996), 10A193

Dynamic modeling of a composite plate: A mixed numerical and experimental approach, Composite Struct 34(2) 301-308 (1996), 11A516

Free vibration of thick generally laminated cantilever quadrilateral plates, AIAA J 34(7) 1474-1486 (Jul 1996), 12A178

Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, Finite Elements Anal Des 22(2) 143-161 (Jun 1996), 12A179

Transient elastic waves in a transversely isotropic plate, J Appl Mech 63(2) 337-346 (Jun 1996), 12A215

154J. Discs and blades

Coupled vibration and natural frequency analysis of isotropic cylinders or disks of finite dimensions, J Sound Vib 185(2) 193-199 (Aug 1995), 1A159

Vibration and critical speeds of a spinning annular disk of varying thickness, J Sound Vib 187(1) 39-50 (Oct 1995), 4A181

Instability mechanisms of a disk rotating close to a rigid surface, J Appl Mech 62(3) 764-771 (Sep 1995), 5A142

Transverse vibration of a composite flywheel with optimum design, Z Angew Math Mech 75(11) 879-880 (1995), 5T518

Vibrations of rotating thin cylindrical panels, Appl Acoust 46(4) 327-343 (1995), 6A145

Vibration mode localization in disordered cyclic structures - I: Single substructure mode, J Sound Vib 189(5) 625-645 (Feb 1996), 7A130

Vibration mode localization in disordered cyclic structures - II: Multiple substructure modes, J Sound Vib 189(5) 647-660 (Feb 1996), 7A131

Induced high-frequency vibrations of thin piezoceramic loud discs (Russian), Prikl Mekh (Appl Mech) 31(5) 75-80 (1995), 7A176

Finite element free vibration analysis of a thermally stressed spinning plate, Comput Struct 59(2) 377-385 (Apr 1996), 8A128

Analogue simulation of dynamic states of rotormachines applicable to their diagnostics (Polish), Prace Inst Maszyn Przeplywowych 0(90) 62-77 (1995), 9A205

Response and eigenfrequencies of rotating composite cylindrical shells, J Sound Vib 192(1) 65-77 (Apr 1996), 10A194

Disk-shaft vibration induced by bearing clearance effects: Analysis and experiment, J Vib Acoust 118(2) 204-208 (Apr 1996), 10A225

Eigensolutions of annular-like elastic disks with intentionally removed or added material, J Sound Vib 192(4) 741-769 (May 1996), 11A126

Effect of diameter-to-thickness ratio of crystal disks on the vibrational characteristics of ultrasonic ceramic transducers, Appl Acoust 48(1) 1-13 (1996), 12A180

Effects of damping and damping mistuning on the forced vibration response of bladed disks, J Sound Vib 193(2) 525-543 (Jun 1996), 12A181

Improved single-parameter tip-timing method for turbomachinery blade vibration measurements using optical laser probes, Int J Mech Sci 38(10) 1047-1058 (Oct 1996), 12A182

Vibration and stability of a spinning disk under stationary distributed edge loads, J Appl Mech 63(2) 439-444 (Jun 1996), 12A183

154K. Rotating shafts (critical speed, balancing)

Optimum circular shafts in forward precession, Eng Optim 25(1) 1-11 (Aug 1995), 2A115

Studies of multi-frequency digital controller of electromagnetic damper (Chinese), J Vib Eng 8(2) 172-177 (Jun 1995), 3A170

Coupled torsional-flexural vibration of shaft systems in mechanical engineering - I: FE model, Comput Struct 58(4) 835-843 (Feb 1996), 4A182

Coupled torsional-flexural vibration of shaft systems in mechanical engineering - II: FE-TM impedance coupling method, Comput Struct 58(4) 845-849 (Feb 1996), 4A183

Dynamic stability of spinning pre-twisted beams subject to axial pulsating loads, Comput Methods Appl Mech Eng 127(1-4) 115-126 (Nov 1995), 4A184

Dynamics of rotor shaft system on flexible supports with gyroscopic effects, Mech Res Commun 22(6) 541-545 (Dec 1995), 4T185

Journal orbits and their stability for rigid unbalanced rotors, J Trib 117(4) 709-716 (Oct 1995), 5A143

Misalignment effect on the static and dynamic characteristics of hydrodynamic journal bearings, J Trib 117(4) 717-723 (Oct 1995), 5A1095

Dynamics of a self-balancing unit in a multi-disk rotor, Mech Solids 30(3) 41-46 (1995), 6T75

Stability of steady-state rotor motions in elastic bearings, Mech Solids 30(3) 47-56 (1995), 6T90

Vibrations of rotating thin cylindrical panels, Appl Acoust 46(4) 327-343 (1995), 6A145

Stability analyses of a cracked shaft subjected to the end load, J Sound Vib 188(4) 497-513 (Dec 1995), 6A146
Balancing of rotating machines by influence coefficients with the help of numerical models (French), Rev Francaise Mec 0(4) 285-292 (1995), 7T177
Rotating machines determination of influence coefficients from modal characteristics (French), Rev Francaise Mec 0(4) 277-283 (1995), 7A178
Comment on "Vibration and Buckling of Flexible Rotating Beams", AIAA J 34(3) 640-641 (Mar 1996), 8T129
Dynamic stability of rotating composite shafts, Mech Res Commun 23(2) 175-180 (Apr 1996), 8A130
Shaft behavior of BTA deep-hole drilling tool, Int J Mech Sci 38(5) 461-482 (May 1996), 8A131
Effect of torque in bifurcation of a rotating shaft, Machine Dyn Prob 13 7-17 (1995), 9T206
Optimum design of a thin-walled laminated rotating shaft, Machine Dyn Prob 13 19-30 (1995), 9A892
Vibration of a spinning cylindrical shell with internal-external ring stiffeners, J Vib Acoust 118(2) 227-236 (Apr 1996), 10A189
Composite shaft rotordynamic analysis using a layerwise theory, J Sound Vib 191(5) 739-756 (Apr 1996), 10A224
Disk-shaft vibration induced by bearing clearance effects: Analysis and experiment, J Vib Acoust 118(2) 204-208 (Apr 1996), 10A225
Dynamic analysis of flexible rotors subjected to torque and force, J Sound Vib 192(2) 439-452 (May 1996), 10A226
Frequencies and modes of rotating flexible bladed disc-shaft assemblies: A global cyclic symmetry approach, J Sound Vib 191(5) 901-915 (Apr 1996), 10A231
Note on natural vibrations of turbine blade assemblies with noncontinuous shroud rings, J Sound Vib 192(2) 521-533 (May 1996), 10A232
Torsional vibrations in electrical induction motor drives during start-up, J Vib Acoust 118(2) 242-251 (Apr 1996), 10A233
Counteraction of periodic torques for rotating systems using centrifugally driven vibration absorbers, J Sound Vib 191(5) 695-719 (Apr 1996), 10A235
Interaction of torsional and lateral vibrations in a rotor system, Acta Tech CSAV 41(1) 111-122 (1996), 11A127
Optimal control in minimum time of the operating unbalanced rigid rotors, Mec Appl 39(6) 667-691 (Dec 1994), 11A128
Stresses in a spinless drive for aero-engines, Proc Inst Mech Eng J Aerospace Eng 210(G2) 189-202 (1996), 11A129
Two planes balancing with dominant mode, Rev Francaise Mec 0(1) 21-32 (1996), 11A130
Dynamic response and stability of a rotor-support system with nonsymmetric bearing clearances, Mech Machine Theory 31(6) 781-798 (Aug 1996), 12A99
Stability characteristics of rotating systems with journal bearings on viscoelastic support, Mech Machine Theory 31(6) 771-779 (Aug 1996), 12A103
Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, Nonlinear Dyn 10(2) 175-185 (Jun 1996), 12A123
Torsional vibration analysis of internal combustion engine shafting system, Acta Polytech Scand Mech Eng 0(119) 7-32 (1996), 12A184

154L. Frames, trusses, and arches

Dynamic response analysis of nonlinear structures using step-by-step integration techniques, Comput Struct 57(6) 1063-1070 (Dec 1995), 2A116
Vibration of beams and frames by using dynamically equivalent systems, Struct Eng Review 7(1) 3-7 (Feb 1995), 3A124
Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), J Vib Eng 8(2) 119-126 (Jun 1995), 3A1321
Dynamic response of flexibly jointed frames, Eng Struct 17(8) 575-580 (Sep 1995), 4A186
Dynamic response of hollow section frames with bolted moment connections, Eng Struct 17(10) 737-748 (Dec 1995), 4A187
Effect of static loading on the nonlinear vibrations of a three-time redundant portal frame: Analytical and numerical studies, Nonlinear Dyn 8(3) 347-366 (Oct 1995), 4A188
Free vibration studies of arches, J Sound Vib 186(5) 856-863 (Oct 1995), 4T189
Influence of pinned joints on damping and dynamic behavior of a truss, J Guidance Control Dyn 18(6) 1398-1403 (Dec 1995), 4A190
Numerical experiments on dynamic stiffening of a circular arch executing in-plane vibrations, J Sound Vib 187(5) 897-909 (Nov 1995), 4T191
Dynamic stiffening of orthogonal beam grillages, J Sound Vib 187(2) 281-286 (Oct 1995), 4A789
Application of k-step Lanczos method to extract the interior eigenvalues of skeletal systems, Int J Numer Methods Eng 39(4) 705-716 (Feb 1996), 7A179
Energy partitioning in a truss structure, Acustica 81(6) 587-594 (Dec 1995), 7A180
Free vibration of an axially-loaded prestressed planar frame, J Sound Vib 189(5) 609-624 (Feb 1996), 7A181
Fixed-hinged beam FEs used for dynamic analysis of frames, Mech Res Commun 23(2) 221-226 (Apr 1996), 8T132
In-plane free vibrations of catenary arches with unsymmetric axes, Struct Eng and Mech 3(5) 511-525 (Sep 1995), 8A133
Vibration confinement in trusses, J Eng Mech 122(3) 286-290 (Mar 1996), 8A134
Nonlinear response of a family of simple 3D trusses, Int J Solids Struct 33(15) 2161-2176 (Jun 1996), 9A159
Parametric identification of truss structures by using transient response, J Sound Vib 191(2) 273-287 (Mar 1996), 9A207
Eigenvalue analysis of structures with flexible random connections, Struct Eng and Mech 4(3) 277-301 (May 1996), 11A8
Spectrally formulated FEM for vibration of a tubular structure, Struct Eng and Mech 4(3) 209-226 (May 1996), 11A40
Damping distribution over the flexible connections in the frame structures, Facta Univ Architec Civil Eng 1(2) 145-151 (1995), 11T131
Vibration and buckling analysis of circular arches using DQM, Comput Struct 60(1) 49-57 (Jul 1996), 11A132
Energy-conserving corotational procedure for the dynamics of planar beam structures, Int J Numer Methods Eng 39(13) 2265-2282 (Jul 1996), 12A185

154M. Sandwich materials

Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, Comput Mech 16(5) 307-314 (Aug 1995), 1A160
Flexural vibrations of sandwich plates, Meccanica 30(4) 397-403 (Aug 1995), 2A117
Comparative dynamic studies for symmetric cross-ply circular cylindrical shells on the basis of a unified shear deformable shell theory, J Sound Vib 187(4) 609-624 (Nov 1995), 4A174
Propagation zones of weakly bonded layered materials, J Sound Vib 187(1) 178-183 (Oct 1995), 4T192
Single-layer plate theories applied to the flexural vibration of completely free thick laminates, J Sound Vib 186(5) 743-759 (Oct 1995), 4A193
Local phase velocity measurements in plates, J Sound Vib 187(2) 241-252 (Oct 1995), 4A233
Non-destructive testing of honeycomb sandwich structures using elastic waves, J Sound Vib 187(2) 253-269 (Oct 1995), 4A234
Dynamic FE analysis of laminated beams with delamination cracks using contact-impact conditions, Comput Struct 58(6) 1161-1169 (Mar 1996), 5A144
Dynamic formulation for geometrically exact sandwich beams and 1D plates, J Appl Mech 62(3) 756-763 (Sep 1995), 5A145
Computational models for sandwich panels and shells, Appl Mech Rev 49(3) 155-200 (Mar 1996), 6A483
Vibration frequencies of simply-supported polygonal sandwich plates via Kirchhoff solutions, J Sound Vib 190(2) 255-260 (Feb 1996), 7A182
Free vibration analysis of sandwich plates with laminated faces using spline finite point method, Comput Struct 59(2) 257-263 (Apr 1996), 8A135
Sensitivity analysis of eigenproblems for symmetrically-laminated composite plates, Comput Struct 59(3) 431-435 (May 1996), 8A136
Nonlinear damped vibrations of simply supported sandwich plates in a rapidly changing temperature field, Nonlinear Dyn 9(4) 369-389 (Apr 1996), 9A1288
C^0 element for the free vibration analysis of laminated composite plates, J Sound Vib 191(5) 721-738 (Apr 1996), 10A28
Green's function synthesis for sandwiched distributed parameter systems, J Sound Vib 191(5) 613-627 (Apr 1996), 10A195
Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, J Spacecraft Rockets 33(2) 285-291 (Apr 1996), 10A196
Bending and vibration analysis of composite sandwich plates, Comput Struct 60(1) 103-112 (Jul 1996), 11A133
Free vibration of composite laminated plates subjected to temperature changes, Comput Struct 60(1) 95-101 (Jul 1996), 11A134
Free vibration of thick generally laminated cantilever quadrilateral plates, AIAA J 34(7) 1474-1486 (Jul 1996), 12A178
Asymptotic variational formulation for dynamic analysis of multilayered anisotropic plates, Comput Methods Appl Mech Eng 130(3-4) 337-353 (Apr 1996), 12A186
Free vibration analysis of multilayered composite plates and shells with the natural approach, Comput Methods Appl Mech Eng 130(1-2) 133-149 (Mar 1996), 12A187

154N. Composite materials

Chaotic response of a composite plate, Comput Struct 57(4) 699-701 (Nov 1995), 1A161
Design of multispan composite plates to maximize the fundamental natural frequency, Composites 26(10) 691-697 (Oct 1995), 1A162
Free vibration of piezoelectric laminates in cylindrical bending, Int J Solids Struct 32(20) 2945-2960 (Oct 1995), 1A163
Influence of constrained damping layer on the resonant response of orthotropic cylindrical shells, J Sound Vib 185(3) 483-500 (Aug 1995), 1A164
Effect of delaminations in graphite-PEEK composite plates on modal dynamic characteristics, Composite Struct 31(3) 195-202 (1995), 1A569
Exact method for analyzing elastodynamic response of anisotropic laminates to line loads, Mech Composite Mat Struct 2(3) 227-241 (Sep 1995), 1A570
Vibration of pretwisted cantilever trapezoidal symmetric laminates, Acta Mech 111(3-4) 193-208 (1995), 2A97
Active vibration control of smart composites featuring electro-rheological fluids, Appl Composite Mat 2(1) 59-65 (1995), 2A118
Layer-wise analysis for free vibration of thick composite cylindrical shells, J Sound Vib 186(2) 207-222 (Sep 1995), 2A119
Nonlinear random response of antisymmetric angle-ply laminates under thermal-acoustic loading, J Sound Vib 186(2) 291-309 (Sep 1995), 2A120
Vibration analysis of pre-stressed rotating thick circular conical shell, J Sound Vib 186(1) 99-110 (Sep 1995), 2A121
Vibration analysis of pre-stressed thick circular conical composite shells, J Sound Vib 186(1) 87-97 (Sep 1995), 2A122
Analytical approach to free vibration of sandwich plates, AIAA J 33(10) 1988-1990 (Oct 1995), 3T139
Dynamic response of cross-ply laminated circular cylindrical shells with various boundary conditions, Acta Mech 112(1-4) 117-134 (1995), 3A140
Finite-element prediction of modal response of damped layered composite panels, Composites Sci Tech 55(1) 13-23 (1995), 3A141
Free vibration of delaminated composite sandwich beams, AIAA J 33(10) 1911-1918 (Oct 1995), 3A142
Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), J Vib Eng 8(2) 91-98 (Jun 1995), 3A143
Dynamic response of tapered composite beams using higher order shear deformation theory, J Sound Vib 187(5) 737-756 (Nov 1995), 4A152
Nonlinear frequency and large amplitude of sandwich composites with embedded shape memory alloy, J Reinforced Plastics Composites 14(11) 1160-1174 (Nov 1995), 4A194
Free vibration of generally layered composite beams using symbolic computations, Composite Struct 33(3) 123-134 (1995), 5A120
Semi-analytical study of free vibration of composite shells of revolution based on the Reissner-Mindlin assumption, Int J Solids Struct 33(6) 851-863 (Mar 1996), 5A137
Vibration and damping analysis of multilayered conical shells, Composite Struct 33(3) 143-157 (1995), 5A139
Dynamic response of antisymmetric cross-ply laminated composite beams with arbitrary boundary conditions, Int J Eng Sci 34(1) 9-19 (Jan 1996), 5A146
Vibrations of composite noncircular cylindrical shells, J Vib Acoust 117(4) 470-476 (Oct 1995), 5A481
Buckling and vibration of thick laminates on Pasternak foundations, J Eng Mech 122(1) 54-63 (Jan 1996), 6A147
Determination and parametric study of material damping in fiber reinforced plastics: A review, European J Mech Eng 40(4) 203-213 (1995), 6A148
Finite element free vibration analysis of laminated composite stiffened shell, J Composite Mat 29(18) 2388-2422 (1995), 6A149
Comparison of beam and plate theories for free vibrations of metal matrix composite pre-twisted blades, J Sound Vib 189(2) 149-160 (Jan 1996), 7A183
Natural frequencies of rotating composite beams with tip sweep, J Am Helicopter Soc 41(1) 29-36 (Jan 1996), 7A184
Aeroelastic behavior of composite plates subject to damage growth, J Aircraft 33(1) 68-73 (Feb 1996), 7A295
Natural frequencies of cross-ply laminated singly-curved panels, Mech Res Commun 23(2) 165-170 (Apr 1996), 8A137
Nonlinear theory and vibration analysis of laminated truncated, thick, conical shells, Int J Non-Linear Mech 31(2) 139-154 (Mar 1996), 10A191
Vibration of laminated shallow shells on quadrangular boundary, J Aerospace Eng 9(2) 52-57 (Apr 1996), 10A197
Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, AIAA J 34(5) 1064-1069 (May 1996), 10A198
Vibratory characteristics of pretwisted cantilever trapezoids of unsymmetric laminates, AIAA J 34(5) 1041-1050 (May 1996), 10A199
Discrete layer analysis of axisymmetric vibrations of laminated piezoelectric cylinders, J Sound Vib 192(5) 995-1013 (May 1996), 11A135
Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, Composite Struct 34(4) 387-395 (1996), 12A57
Large deflection dynamic response of composite laminated plates under lateral loads, Marine Struct 9(9) 825-848 (1996), 12A163
Vibration and damping analysis of fiber reinforced composite material conical shells, J Sound Vib 193(3) 581-595 (Jun 1996), 12A176
Constrained layer damping of tubular truss members, AIAA J 34(7) 1487-1493 (Jul 1996), 12A188
Parametric instability of multi-layered sandwich beams, J Sound Vib 193(3) 631-644 (Jun 1996), 12A189
Relative effects of transverse shear deformation and rotatory inertia on the free vibration of symmetric cross-ply laminated plates, J Sound Vib 193(4) 927-933 (Jun 1996), 12A190
Active control of flexible structures by use of segmented piezoelectric elements, J Guidance Control Dyn 19(4) 808-815 (Aug 1996), 12A394
Bimodal bound of system reliability for random composite structures, AIAA J 34(7) 1494-1500 (Jul 1996), 12A838
Dynamics of a gas permeable contact lens during blinking, J Appl Mech 63(2) 411-418 (Jun 1996), 12A1478

154O. Structural elements on foundations

Dynamic response of finite sized elastic runways subjected to moving loads: A coupled BEM-FEM approach, Int J Numer Methods Eng 38(18) 3143-3166 (Sep 1995), 2A123
Vibrations of initially stressed uniform beams on a two-parameter elastic foundation, Comput Struct 57(5) 941-943 (Dec 1995), 2A124
Methods of solving steady-state and transient vibrations of discretely supported track, Machine Dyn Prob 11 19-38 (1995), 3A144
Problem of choosing the creep forces model in rail vehicle dynamics, Machine Dyn Prob 11 39-54 (1995), 3A161
Dynamic modeling of concrete railway sleepers, J Sound Vib 187(5) 799-813 (Nov 1995), 4A195
Vertical dynamic interaction between train and track: Influence of wheel and track imperfections, J Sound Vib 187(5) 825-839 (Nov 1995), 4A196
Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), J Vib Eng 8(3) 269-273 (Sep 1995), 4A608
Free vibration and stability behavior of uniform beams and columns on nonlinear elastic foundation, Comput Struct 58(6) 1213-1215 (Mar 1996), 5A147
Regularization in the governing equations of railway wheel models, J Theor Appl Mech 34(1) 31-42 (1996), 6A150
Discretely supported rails subjected to transient loads, Vehicle Syst Dyn 25(1) 71-88 (Jan 1996), 7A185
Effects of torque on the transverse vibration frequency of a point-anchored bolt, J Sound Vib 189(4) 535-542 (Feb 1996), 7A186
Modal properties of beams and plates on resilient supports with rotational and translational complex stiffness, J Sound Vib 190(2) 207-220 (Feb 1996), 7A187
Response of a layered elastic medium to a moving strip load, Int J Numer Anal Methods Geomech 20(3) 191-208 (Mar 1996), 8A138
Principles of localized buckling for a strut on an elastoplastic foundation, J Appl Mech 63(1) 234-239 (Mar 1996), 9A622
Time domain response of a 1D soil-structure interacting model via complex analysis, Eng Struct 18(6) 425-436 (Jun 1996), 10A661
Initial post-buckling behavior of a finite beam on an elastic foundation, Int J Non-Linear Mech 31(3) 313-328 (May 1996), 11A136
Free vibration analysis of beams on elastic foundation, Comput Struct 60(6) 971-980 (Jul 1996), 12A191
Effect of slab flexibility on interaction between two circular foundations, Earthquake Eng Struct Dyn 25(6) 561-583 (Jun 1996), 12A1395

154P. Complex systems

Long-wave vibrations of a thin-walled body with fixed faces, Quart J Mech Appl Math 48(3) 311-327 (Aug 1995), 1A165

Response of primary-secondary systems to short-duration, wide-band input, J Sound Vib 185(1) 119-137 (Aug 1995), 1A166
Studies on differential diagnosis of chatter caused by phase-delay of dynamic cutting force (relative to vibration) (Chinese), J Vib Eng 8(2) 136-143 (Jun 1995), 3A166
Diesel engine vibration analysis and fault diagnostic system (Chinese), J Vib Eng 8(2) 144-149 (Jun 1995), 3A167
Dynamic design of a flutter model of airfoil (Chinese), J Vib Eng 8(2) 184-189 (Jun 1995), 3A222
Dynamic modeling of elastic wavy plates, Arch Appl Mech 66(3) 177-186 (Jan 1996), 8A113
Vibration analysis of elastic manipulators with the adjacent link joint method, JSME Int J Ser C 39(1) 94-101 (Mar 1996), 9A457
Latent spatial resonances at thin-walled structure vibrations in convecting field of random pressure fluctuations, TsAGI 1(1) 108-116 (1994), 10T300
Analysis of the structural static response, eigenvalues and eigenvectors of manipulators with flexible joints and links (Spanish), J Brazilian Soc Mech Sci 18(1) 40-49 (Mar 1996), 10A478
Homology design for eigenvector of bending vibration using FEM, JSME Int J Ser C 39(2) 212-217 (Jun 1996), 12A192
Two-step component-mode synthesis for the eigensolution of large systems, AIAA J 34(7) 1519-1525 (Jul 1996), 12A193
Dynamics of a gas permeable contact lens during blinking, J Appl Mech 63(2) 411-418 (Jun 1996), 12A1478

154Y. Computational techniques

Calculation of eigenvectors with uniform accuracy, J Eng Mech 121(9) 948-955 (Sep 1995), 1A125
Natural frequencies of a cantilever Timoshenko beam with a tip mass, Eng Trans 43(1-2) 19-26 (1995), 1A136
Eigensolutions of perturbed nearly defective matrices, J Sound Vib 185(3) 377-395 (Aug 1995), 1A167
Frequency response of elastic bodies of revolution by the BEM, J Acoust Soc Am 98(3) 1558-1564 (Sep 1995), 1A168
Vibration analysis of structures by hybrid strain-based three-node flat triangular shell elements, J Sound Vib 184(5) 801-821 (Aug 1995), 1A169
Role of the generalized inverse in structural dynamics, J Sound Vib 186(2) 185-195 (Sep 1995), 2A89
Analysis of orthotropic plate structures by the direct-dynamic stiffness method, Mech Res Commun 22(5) 461-466 (Oct 1995), 2T101
Computation of eigenvalues and eigenvectors of nonclassically damped systems, Comput Struct 57(5) 883-891 (Dec 1995), 2A125
Effective data parallel self-starting explicit methodology for computational structural dynamics on the connection machine CM-5, Int J Numer Methods Eng 38(19) 3211-3226 (Oct 1995), 2A126
Formulation and solution of the nonlinear, damped eigenvalue problem for skeletal systems, Int J Numer Methods Eng 38(18) 3071-3085 (Sep 1995), 2A127
Matrix hybrid graphs as models of complex vibrating mechanical systems, Mech Machine Theory 30(7) 1073-1098 (Oct 1995), 2A128
Substructure synthesis with FRF data, J Sound Vib 185(5) 845-866 (Sep 1995), 2A129
Forms of damping matrix in the FE analysis of flexible mechanisms, Machine Dyn Prob 10 7-19 (1995), 3A17
Combination of the Lanczos algorithm with the substructure technique, J Sound Vib 186(4) 607-616 (Oct 1995), 3A111
Extension of classical modal reanalysis algorithms: The improvement of initial models, J Sound Vib 186(4) 551-560 (Oct 1995), 3A112
Mass penalty technique to control the critical time increment in explicit dynamic FE analyses, Earthquake Eng Struct Dyn 24(10) 1315-1331 (Oct 1995), 3A113
Analysis of a initially deformed and preloaded discrete-continuous system with rotating element, Machine Dyn Prob 10 37-52 (1995), 3A145
Computational techniques for nonlinear dynamics of continuous systems, J Eng Mech 121(11) 1193-1199 (Nov 1995), 3A146
Symplectic integration and nonlinear dynamic symmetry breaking of frames, Shock Vib 2(6) 481-492 (1995), 3A147
Location and modification of errors in structural dynamic models (Chinese), J Vib Eng 8(2) 156-161 (Jun 1995), 3A173
Natural excitation technique (NExT) for modal parameter extraction from operating structures, Modal Analysis 10(4) 260-277 (Oct 1995), 4A146
Correlation between experimental and theoretical modal properties of an echinodome, Modal Analysis 10(4) 204-223 (Oct 1995), 4A175
Cell-averaging Chebyshev spectral method for the controlled Duffing oscillator, Appl Numer Math 18(4) 461-471 (Oct 1995), 4A197
Experimental investigation of the vibroacoustic behavior of structures for validation purposes, Appl Acoust 46(2) 197-210 (1995), 4A198
Increasing property of spectrum in the vibrations of a cyclic chain of masses distributed according to the GTM sequence, Appl Math Mech 16(7) 643-649 (Jul 1995), 4A199
Inner product techniques for computing eigenvalues for 3D anharmonic oscillators with quartic and sextic perturbations, J Comput Appl Math 62(3) 285-299 (Sep 1995), 4A200
Nonlinear oscillation analysis by an orthogonal function method, Appl Math Mech 16(7) 695-704 (Jul 1995), 4A201
Rubin's CMS reduction method for general state-space models, Comput Struct 58(3) 597-606 (Feb 1996), 4A202
Shifted-interative modal method of structural eigenvector derivative computation (Chinese), J Vib Eng 8(3) 247-252 (Sep 1995), 4A203
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part I: Formulation, Comput Methods Appl Mech Eng 126(1-2) 67-89 (Sep 1995), 4A247
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part II: Single-processor implementation, Comput Methods Appl Mech Eng 126(1-2) 91-109 (Sep 1995), 4A248
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part III: Parallel implementation, Comput Methods Appl Mech Eng 126(1-2) 111-129 (Sep 1995), 4A249
Methods of preserving symmetry in model updating, J Vib Acoust 117(3(A)) 349-354 (Jul 1995), 5A113
Free vibration of generally layered composite beams using symbolic computations, Composite Struct 33(3) 123-134 (1995), 5A120
Direct time integration methods for structural acoustics and far field scattering computations, J Vib Acoust 117(4) 488-492 (Oct 1995), 5A285
Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, Composite Struct 33(3) 135-142 (1995), 5A516
Implementation of the BEM in the dynamics of flexible bodies, Int J Numer Methods Eng 39(2) 321-354 (Jan 1996), 6A41
Analysis of periodically forced nonlinear Hill's oscillator with application to a geared system, J Acoust Soc Am 99(1) 324-334 (Jan 1996), 6A151
Application of the spline prism method to analyse vibration of thick circular cylindrical panels, Int J Solids Struct 33(7) 967-976 (Mar 1996), 6A152
Convergent algorithm for harmonic response prediction of general nonlinear structures, Mech Syst Signal Processing 10(1) 107-112 (Jan 1996), 6A153
Dynamic condensation of mass and stiffness matrices, J Sound Vib 188(4) 601-615 (Dec 1995), 6A154
Iterative computation method for nonlinear forced vibration equation on helicopter main rotor load, Chinese J Aeronaut 8(1) 22-28 (Feb 1995), 6A155
Order reduction of stiffness and mass matrices - 2: Lanczos method, J Czech Slovak Mech Eng 3(2) 150-155 (Jun 1993), 6A156
Discretization considerations in moving load FE beam models, Finite Elements Anal Des 21(3) 129-144 (Jan 1996), 7A12
Validation of flexible beam elements in dynamics programs, Nonlinear Dyn 9(1-2) 21-36 (Feb 1996), 7A144
Efficient computational scheme for the vibration analysis of high tension cable nets, J Sound Vib 189(1) 55-79 (Jan 1996), 7A149
Differential quadrature and Rayleigh-Ritz methods to determine the fundamental frequencies of simply supported rectangular plates with linearly varying thickness, J Sound Vib 189(1) 103-122 (Jan 1996), 7A154
Approximate equations for calculation of natural frequencies of oscillations of longitudinally supported cylindrical shells obtained using the precised theory (Russian), Prikl Mekh (Appl Mech) 31(3) 40-44 (1995), 7A188
Semi-analytical approach for solving forced vibration problems based on a convolution-type variational principle, Comput Struct 59(1) 167-177 (Apr 1996), 7A189
Effect of member initial curvature on a flexible mechanism response, J Sound Vib 190(2) 177-194 (Feb 1996), 7A601
Semianalytical differential quadrature solution for free-vibration analysis of rectangular plates, AIAA J 34(3) 601-606 (Mar 1996), 8A118
In-plane free vibrations of catenary arches with unsymmetric axes, Struct Eng and Mech 3(5) 511-525 (Sep 1995), 8A133
Modified surface spline for expansion and smoothing of frequency response functions, Proc Inst Mech Eng J Aerospace Eng 210(G1) 77-92 (1996), 8A139
Accuracy of composite shell elements in transient analysis involving multiple impacts, Comput Struct 59(4) 593-600 (May 1996), 9A208
Implementation of a flat facet shell FE for applications in structural dynamics, Comput Struct 59(4) 657-663 (May 1996), 9A209
Modal truncation issues in synthesis procedures for vibratory power flow and dissipation, J Acoust Soc Am 99(4) 2158-2166 (Apr 1996), 9A210
Model reduction by a simplified variant of dynamic condensation, J Sound Vib 191(2) 233-250 (Mar 1996), 9A211
Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, J Vib Eng 9(1) 64-68 (Mar 1996), 10A92
Assessment of time integration schemes for nonlinear dynamic equations, J Sound Vib 192(1) 321-331 (Apr 1996), 10A116
Research on modeling stochastic structures (Chinese), J Vib Eng 9(1) 47-53 (Mar 1996), 10A131
Numerical-analytical method for studying natural vibrations of nonuniform rods, Mech Solids 30(5) 173-182 (1995), 10A153
Explicit method for the free vibrations of non-circular cylindrical panels, J Sound Vib 191(5) 681-694 (Apr 1996), 10A183
Wave motion of an unbounded cylindrical shell with variable parameters, Mech Solids 30(6) 117-125 (1995), 10A190
Accuracy of discontinuous Galerkin methods in the time domain, J Vib and Control 2(2) 193-217 (May 1996), 10A200
Exact residual modes and their synthesis techiques (Chinese), J Vib Eng 9(1) 38-46 (Mar 1996), 10A201
Optimized Rayleigh method and *Mathematica* in vibrations and buckling problems, J Sound Vib 191(5) 795-808 (Apr 1996), 10A202
Sensitivity analysis of structural anti-resonance (Chinese), J Vib Eng 9(1) 9-15 (Mar 1996), 10A203
Selection of component modes for Craig-Bampton substructure representations, J Vib Acoust 118(2) 264-270 (Apr 1996), 10A240
Dynamic response of a beam on multiple supports with a moving mass, Struct Eng and Mech 4(3) 303-312 (May 1996), 11A104
Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, Eng Struct 18(7) 558-563 (Jul 1996), 11A137
Optimal Ritz vectors for component mode synthesis using the singular value decomposition, AIAA J 34(6) 1256-1260 (Jun 1996), 11A138
Accelerated solutions for transcendental stiffness matrix eigenproblems, Shock Vib 3(4) 287-292 (1996), 12A141
Two-step component-mode synthesis for the eigensolution of large systems, AIAA J 34(7) 1519-1525 (Jul 1996), 12A193
Mismatching windows can cause frequency response function notches to appear as peaks, Mech Syst Signal Processing 10(3) 341-350 (May 1996), 12A194
Modal equations and equal frequencies in definite systems, Comput Struct 60(3) 357-367 (Aug 1996), 12A195
Application of a numerical procedure for the dynamic analysis of plane aeronautical structures, J Sound Vib 193(5) 957-983 (Jun 1996), 12A1174

154Z. Experimental techniques

Application of the integrating fibor optic sensor for vibration monitoring, Smart Mat Struct 4(2) 100-105 (Jun 1995), 1A170
Realization of shock response spectra on a mechanical shock test machine, Shock Vib Digest 27(4) 10-14 (Aug 1995), 1A171
Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, J Sound Vib 185(4) 643-654 (Aug 1995), 2A689
Analysis of multiaxis vibration simulators, Shock Vib 2(6) 461-470 (1995), 3A148
Identification of joint properties of a structure using FRF data, J Sound Vib 186(4) 567-587 (Oct 1995), 3A861
Fundamental noise limits for miniature acoustic and vibration sensors, J Vib Acoust 117(4) 405-410 (Oct 1995), 5A114
Experimental observation of elastic-wave dispersion in bounded solids of various configurations, J Acoust Soc Am 99(2) 962-968 (Feb 1996), 7A190
Measurement of the transfer function between bending strain and a transient load using a scanning laser vibrometer, J Sound Vib 189(5) 661-668 (Feb 1996), 7A191
Laser torsional vibrometer: A step forward in rotating machinery diagnostics, J Sound Vib 190(3) 399-418 (Feb 1996), 8A164
Theoretical and experimental study of modal strain analysis, J Sound Vib 191(2) 251-260 (Mar 1996), 9A212
Theoretical and numerical assessment of strain pattern analysis, J Sound Vib 192(1) 349-387 (Apr 1996), 10A140
Use of a rising-falling chirp excitation for vibration testing, J Sound Vib 192(2) 599-604 (May 1996), 10A141
Damping the tension impulse in the thread on a frictional barrier, Fibres Textiles in E Europe 3(4) 22-25 (Dec 1995), 10A160
Full-field random bending strain measurement of a plate from vibration measurements, J Sound Vib 191(5) 847-858 (Apr 1996), 10A174
Identification of energy sources and sinks in plates by means of a scanning laser Doppler vibrometer, Noise Control Eng J 44(2) 61-68 (Apr 1996), 10A175
Comparison of mechanical impedance methods for vibration simulation, Shock Vib 3(3) 223-232 (1996), 10A204
Damping augmentation for three-cable suspension system for structural testing, J Spacecraft Rockets 33(2) 292-297 (Apr 1996), 10A205
Effects of stingers on receptance function measurements, J Vib Acoust 118(2) 220-226 (Apr 1996), 10A206
Identification of the dynamic properties of yarn used in rib knitting, Fibres Textiles in E Europe 3(4) 29-33 (Dec 1995), 10A207
Procedures to compute maximum structural responses from predictions or measurements at selected points, Shock Vib 3(3) 211-221 (1996), 10A208
Experimental implementation of the internal resonance control strategy, J Sound Vib 191(3) 377-396 (Apr 1996), 10A883
Ground modal tests of space-structure components using boundary masses, J Spacecraft Rockets 33(2) 272-277 (Apr 1996), 10A946
Lamb wave vibration sensor with a cellulose membrane diaphragm, Acoust Lett 19(2) 36-38 (Aug 1995), 11A139
Mismatching windows can cause frequency response function notches to appear as peaks, Mech Syst Signal Processing 10(3) 341-350 (May 1996), 12A194
Development of microvibration testing device: Realizing microvibrational reference waves smaller than floor vibrations, JSME Int J Ser C 39(2) 272-278 (Jun 1996), 12A196
Experimental motion analysis of radially rotating beams using high-speed camera and motion analyzer, Shock Vib 3(4) 293-301 (1996), 12A197

156. VIBRATIONS (STRUCTURES)

156B. Buildings and foundations

Advances in Vibration Issues, Active and Passive Mitigation, Damping and Seismic Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 1N8
Seismic, Shock, and Vibration Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N15
Analysis of free vibrations of high-rise structures, Asian J Struct Eng 1(1) 16-25 (1995), 2A130
Building response due to subway train traffic, J Geotech Eng 121(11) 747-765 (Nov 1995), 3A149
Continuous-discrete approach to the free vibration analysis of stiffened pierced walls on flexible foundations, Int J Solids Struct 33(2) 249-263 (Jan 1996), 3A150
Damping of vibration in precast buildings with bearing concrete walls, Arch Civil Eng 41(3) 329-341 (1995), 3A151
Dynamic identification of a tall building model, Arch Civil Eng 41(3) 377-396 (1995), 3A152
Seismic performance of architectural glass in a storefront wall system, Earthquake Spectra 11(3) 367-391 (Aug 1995), 3A1326
Dynamic analysis of a ten-story reinforced concrete building using a continuum model, Comput Struct 58(3) 487-498 (Feb 1996), 4A204
Nonstationary frequency effect of the ground motion upon the strength levels of the shear type RC structures, Soil Dyn Earthquake Eng 14(6) 453-461 (1995), 4A1332
Dynamic analysis of concrete box tubes subjected to torsion, Eng Struct 18(1) 29-40 (Jan 1996), 5A148
Evaluation of interaction effects on the system period and the system damping due to foundation embedment and layer depth, Soil Dyn Earthquake Eng 15(1) 11-27 (1996), 5A149
Behavior of asymmetric building systems under a monotonic load - I, Eng Struct 18(2) 133-141 (Feb 1996), 6A157
Behavior of asymmetric building systems under a monotonic load - II, Eng Struct 18(2) 142-153 (Feb 1996), 6A158
Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, Shock Vib 3(2) 99-105 (1996), 7A192
Near-source ground motion and its effects on flexible buildings, Earthquake Spectra 11(4) 569-605 (Nov 1995), 7A1379

Harmonic wave response of two 3D rigid surface foundations, Soil Dyn Earthquake Eng 15(2) 95-110 (1996), 8A140
Saturation impulses for dynamically loaded structures with finite-deflections, Struct Eng and Mech 3(6) 583-592 (Nov 1995), 8A141
Seismic study of buildings with viscoelastic dampers, Struct Eng and Mech 3(6) 569-581 (Nov 1995), 8A158
Dynamic testing on spring damping foundation (Chinese), J Dalian Univ Tech 36(2) 157-161 (Mar 1996), 9A213
Elasto-plastic analysis of steel structures under cyclic loading using minimum residual displacement method (Japanese), Proc JSCE 531(I-34) 77-86 (Jan 1996), 9A214
Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, JSME Int J Ser C 39(1) 137-143 (Mar 1996), 9A215
Evaluation of serviceability limit state seismic torsional provisions of Eurocode 8, Struct Eng Review 8(1) 49-63 (Feb 1996), 9A937
Sturm-Liouville equation for free vibration of a tube-in-tube tall building, J Sound Vib 191(3) 349-355 (Apr 1996), 10A209
Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, Eng Struct 18(6) 399-411 (Jun 1996), 10A210
Dynamics of Structures: Theory and Applications to Earthquake Engineering - Int Series in Civil Eng and Eng Mech (Prentice Hall, Upper Saddle River, NJ, 1995) 11R11
Dynamic analysis of coupled shear wall-frame systems, J Sound Vib 192(4) 867-883 (May 1996), 11A140
Static and dynamic analysis of tall tube-in-tube structures by finite story method, Eng Struct 18(7) 515-527 (Jul 1996), 11A141
Control of traffic-induced vibration in buildings using vehicle suspension systems, Soil Dyn Earthquake Eng 15(4) 245-254 (1996), 12A198
Deterministic sliding block methods for estimating seismic displacements of earth structures, Soil Dyn Earthquake Eng 15(4) 255-268 (1996), 12A1400

156C. Towers and chimneys

Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), J Vib Eng 8(3) 204-211 (Sep 1995), 4A380
Analytical determination of equivalent modal damping ratios of a composite tower in wind-induced vibrations, Comput Struct 59(2) 311-316 (Apr 1996), 8A142
Finite element method analysis of nonlinear dynamic response of articulated towers, Comput Struct 59(2) 213-223 (Apr 1996), 8A143

156D. Bridges

Active-control and forced-vibration studies on highway bridge, J Struct Eng 121(9) 1306-1312 (Sep 1995), 1A172
Dynamic behavior of horizontally curved I-girder bridges, Comput Struct 57(4) 703-714 (Nov 1995), 1A173
Dynamic calculation of the youth bridge over the Danube River in Bratislawa, Eng Trans 43(1-2) 259-277 (1995), 1T174
Vibration of thin-walled box-girder bridges excited by vehicles, J Struct Eng 121(9) 1330-1337 (Sep 1995), 1A175
Analysis of nonlinear free vibrations of suspension bridges, J Sound Vib 186(3) 369-393 (Sep 1995), 3A153
Effect of viscosity on vibrational processes in a combined suspension system, Mech Solids 30(1) 157-166 (1995), 3A154
Fatigue-based methodology for managing impact on heavy-permit trucks on steel highway bridges, J Struct Eng 121(11) 1651-1659 (Nov 1995), 3A155
Impact formulas for vehicles moving over simple and continuous beams, J Struct Eng 121(11) 1644-1650 (Nov 1995), 3A156
Vehicle-bridge interaction analysis by dynamic condonsation method, J Struct Eng 121(11) 1636-1643 (Nov 1995), 3A157
Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), J Vib Eng 8(2) 119-126 (Jun 1995), 3A1321
Free vibration analysis of bridges, Eng Struct 17(10) 705-713 (Dec 1995), 4A205
Effects of soil-structure interaction on seismic response of PC cable-stayed bridge, Soil Dyn Earthquake Eng 14(6) 427-437 (1995), 4A1327
Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 19-51 (1996), 5A16
Aerodynamic stability analysis of cable-stayed bridges, J Struct Eng 121(12) 1784-1788 (Dec 1995), 6A159
Modal analysis for masonry arch bridge spandrell wall separation identification, NDT&E Int 28(6) 377-386 (Dec 1995), 6A160
Integrity assessment of masonry arch bridges using the dynamic stiffness technique, NDT&E Int 28(6) 367-375 (Dec 1995), 6A769
Experimental study of FPS system in bridge seismic isolation, Earthquake Eng Struct Dyn 25(1) 65-78 (Jan 1996), 6A1280
Parameters in bridge restrainer design for seismic retrofit, J Struct Eng 122(1) 61-68 (Jan 1996), 6A1283
Iterative solution method for dynamic response of bridge-vehicles systems, Earthquake Eng Struct Dyn 25(2) 195-215 (Feb 1996), 7A193
Modeling and analysis methods of bridges and their effects on seismic responses - I: Theory, Comput Struct 59(1) 81-98 (Apr 1996), 7A194
Modeling and analysis methods of bridges and their effects on seismic responses - II: Implementation, Comput Struct 59(1) 99-114 (Apr 1996), 7A195
Controlled semiactive hydraulic vibration absorber for bridges, J Struct Eng 122(2) 187-192 (Feb 1996), 7A912
Analysis of the seismic characteristics of steel-jacketed circular bridge columns, Earthquake Eng Struct Dyn 25(2) 149-161 (Feb 1996), 7A1374
Continuing challenge: Report on the performance of state bridges in the Northridge Earthquake, Earthquake Spectra 11(4) 607-636 (Nov 1995), 7A1376
Dynamics of Railway Bridges (Telford, UK, 1996) 8R4
Dynamic response of hinged-hinged single span bridges with uneven deck, Comput Struct 59(2) 291-299 (Apr 1996), 8A144
Experimental study of bridge seismic sliding isolation systems, Eng Struct 18(4) 301-310 (Apr 1996), 8A145
Disturbance rejection control of bridge response to earthquake excitation, Earthquake Eng Struct Dyn 25(3) 291-302 (Mar 1996), 8A1338
Shear lag in the behavior of thin-walled box bridges, Comput Struct 59(4) 607-612 (May 1996), 9A216
Compression behavior of bridge bearings used for seismic isolation, Eng Struct 18(5) 351-362 (May 1996), 9A240
Site effects on the seismic response of a suspension bridge, Eng Struct 18(5) 363-370 (May 1996), 9A1390
Control by passive TMD of wind-induced nonlinear vibrations in cable stayed bridges, J Vib and Control 2(2) 251-267 (May 1996), 10A211
Piecewise linear suspension bridge model: Nonlinear dynamics and orbit continuation, Dyn Stability Syst 11(1) 19-47 (1996), 10A212
Response of long-span bridges to spatially varying ground motion, J Struct Eng 122(5) 476-484 (May 1996), 10A1431
Dynamics of Structures: Theory and Applications to Earthquake Engineering - Int Series in Civil Eng and Eng Mech (Prentice Hall, Upper Saddle River, NJ, 1995) 11R11
Dynamic response of a tower-pier system on viscoelastic foundation with frictional interface, Eng Struct 18(7) 546-557 (Jul 1996), 11A142
Study on vibration serviceability limit state of pedestrian bridges based on human vibration sensibility (Japanese), Proc JSCE 537(I-35) 217-231 (Apr 1996), 11A143
Flutter stability of decks for super long-span bridge (Japanese), Proc JSCE 537(I-35) 191-203 (Apr 1996), 11A225
Refined model for base-isolated bridges with bilinear hysteretic bearings, Earthquake Spectra 12(2) 245-273 (May 1996), 11A1405
Seismic analysis and design of modern steel highway connectors, Earthquake Spectra 12(2) 275-296 (May 1996), 11A1407
Dynamic response of highway girder bridges, Comput Struct 60(6) 1021-1027 (Jul 1996), 12A199
Active tendon control of cable-stayed bridges, Earthquake Eng Struct Dyn 25(6) 585-597 (Jun 1996), 12A396

156E. Hydraulic structures

Evaluation of Surgu dam response during May 5, 1986 earthquake, Soil Dyn Earthquake Eng 15(1) 1-10 (1996), 5A1319
Time domain procedure of FE-BE-IBE coupling for seismic interaction of arch dams and canyons, Earthquake Eng Struct Dyn 24(12) 1651-1666 (Dec 1995), 5A1334
Application of BE analysis for multiple seismic cracking in concrete gravity dams, Earthquake Eng Struct Dyn 25(1) 15-30 (Jan 1996), 6A1273
Investigation into the base sliding response of rigid concrete gravity dams to dynamic loading, Earthquake Eng Struct Dyn 25(1) 79-98 (Jan 1996), 6A1275
Nonlinear hydrodynamic effects on concrete dam, Eng Struct 18(3) 201-212 (Mar 1996), 7A196
Procedure for time-domain seismic analyses of concrete dams, J Eng Mech 122(2) 116-122 (Feb 1996), 7A1381
Vibration and stability of fluid conveying pipes with stochastic parameters, Struct Eng and Mech 3(4) 313-324 (Jul 1995), 8A223
Asymptotic formulae for correcting FE predicted natural frequencies of gravity and embankment dams, Soil Dyn Earthquake Eng 15(3) 161-169 (1996), 9A217
Modeling dynamic phenomena occurring in hydraulic servomotors with hydrostatic bearings, Machine Dyn Prob 13 109-116 (1995), 9A218
Dam-foundation rock interaction effects in earthquake response of arch dams, J Struct Eng 122(5) 528-538 (May 1996), 10A1429

156F. Marine structures

Effect of foundation nonlinearity of modal properties of offshore towers, J Geotech Eng 121(9) 660-668 (Sep 1995), 1A176
Special issue on jack-ups, Marine Struct 9(1) 3-148 (1995), 2A790
Wave response analysis of a flexible floating structure by a simple beam model (Japanese), Proc JSCE 525(I-33) 309-317 (Oct 1995), 5A150
Nonlinear system identification in offshore structural reliability, J Offshore Mech Arctic Eng 117(3) 171-177 (Aug 1995), 5A702
Surge response statistics of tension leg platforms under wind and wave loads: A statistical quadratization approach, Probab Eng Mech 10(4) 225-240 (1995), 6A219
Nonlinear dynamics of an articulated tower in the ocean, J Sound Vib 190(1) 77-103 (Feb 1996), 7A974
Dynamic response of tubular T-joints under the influence of propagating cracks, J Offshore Mech Arctic Eng 118(1) 71-78 (Feb 1996), 8A146
Extreme jack-up response: Simulation and nonlinear analysis methods, J Offshore Mech Arctic Eng 118(2) 103-108 (May 1996), 11A144
Influence of alternative wave loading and support modeling assumptions on jack-up rig response extremes, J Offshore Mech Arctic Eng 118(2) 109-114 (May 1996), 11A216

156G. Vehicles (incl locomotives)

Vibration reduction in rotorcraft using active control: A comparison of various approaches, J Guidance Control Dyn 18(4) 664-673 (Aug 1995), 1A415
Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, Int J Vehicle Des 16(6) 542-555 (1995), 2A131
Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, Int J Vehicle Des 16(6) 556-569 (1995), 2A132
Time series models for vehicle random vibration simulation tests, Int J Vehicle Des 16(6) 581-593 (1995), 2A133
Vertical interaction between train and track with soft and stiff railpads: Full-scale experiments and theory, Proc Inst Mech Eng F 209(F1) 39-47 (1995), 2A134
Nonstationary random response of a vehicle with a varying structure, Int J Vehicle Des 16(6) 531-541 (1995), 2A284
Methods of solving steady-state and transient vibrations of discretely supported track, Machine Dyn Prob 11 19-38 (1995), 3A144
Effect of harmonic track alignment and rail wear ratio on the railway vehicle dynamics, Machine Dyn Prob 11 69-81 (1995), 3A158
Experimental approach to wheelset-track interaction in frequency domain, Machine Dyn Prob 11 83-94 (1995), 3A159
Influence of riding speed on vehicle track-system dynamics in the presence of track random irregularities, Machine Dyn Prob 11 55-67 (1995), 3A160
Problem of choosing the creep forces model in rail vehicle dynamics, Machine Dyn Prob 11 39-54 (1995), 3A161
Statistical norms for off-road wheeled vehicle parameters, Heavy Vehicle Syst 2(2) 124-142 (1995), 3A162
Study on the relation between the traveling speed and forces within the wheel-rail contact zone depending on the state of track maintenance, Machine Dyn Prob 11 7-18 (1995), 3A163
Influence of articulation damping on the yaw and lateral dynamic response of the vehicle, Heavy Vehicle Syst 2(2) 105-123 (1995), 3A373
Power requirement of active vibration control systems, Vehicle Syst Dyn 24(9) 683-691 (Oct 1995), 3A377
Whole-body vibration exposure in Indian buses, Heavy Vehicle Syst 2(2) 160-173 (1995), 3A1409
Effect of frame flexibility on the ride vibration of trucks, Comput Struct 58(4) 709-713 (Feb 1996), 4A206
Design of an active unilateral brake control system for five-axle tractor-semitrailer based on sensitivity analysis, Vehicle Syst Dyn 24(10) 725-758 (Dec 1995), 4A371
Semi-active suspension with preview using a frequency-shaped performance index, Vehicle Syst Dyn 24(10) 759-780 (Dec 1995), 4A381
Convolution application to determine the dynamic response of a railway track, Mech Syst Signal Processing 9(6) 707-708 (Nov 1995), 5A151
Dynamic analysis of vehicles, J Machinery Manuf Reliab 2 83-86 (1995), 5T152
Response spectrum methods in tank-vehicle design, Exp Mech 35(4) 345-351 (Dec 1995), 5A153
Allowing higher speeds on existing tracks: Design considerations of the X2000 train for Swedish State Railways, Proc Inst Mech Eng F 209(F2) 93-104 (1995), 6A161
Properties of an interconnected hydro-pneumatic suspension system, Trans Can Soc Mech Eng 19(4) 383-396 (1995), 6A162
State-feedback control for passenger ride dynamics, Trans Can Soc Mech Eng 19(4) 495-507 (1995), 6A163
Vibration analysis of rubber vibration isolators of vehicle using the restoring force model of power function type: Analysis of nonlinear vibration using frequency characteristics determined by the hysteresis loop, JSME Int J Ser C 38(4) 679-685 (Dec 1995), 6A164
Vibration control of a ropeway carrier by passive dynamic vibration absorbers, JSME Int J Ser C 38(4) 657-662 (Dec 1995), 6A173
Novel approach to the estimation of the limiting potential of an active vehicle suspension, J Machinery Manuf Reliab 3 13-19 (1995), 6A329
Dynamic simulation of road vehicle performance under transient accelerating conditions, Proc Inst Mech Eng D 210(D1) 11-21 (1996), 7A84
Discretely supported rails subjected to transient loads, Vehicle Syst Dyn 25(1) 71-88 (Jan 1996), 7A185
Effect of nonlinear components on the performance of a hydro-pneumatic slow-active suspension system, Proc Inst Mech Eng D 210(D1) 23-34 (1996), 7A197
Optimal roll control of a single-unit lorry, Proc Inst Mech Eng D 210(D1) 45-55 (1996), 7A198
Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, Vehicle Syst Dyn 25(1) 31-49 (Jan 1996), 7A199
Directional stability of vehicle trailer systems, Heavy Vehicle Syst 2(3-4) 285-307 (1995), 7A398
Optimal performance index for an off-road vehicle with passive and active suspension systems, Heavy Vehicle Syst 2(3-4) 225-237 (1995), 7A405
Robotic analyses and simulation of automatic control of excavator finish trenching, Heavy Vehicle Syst 2(3-4) 238-255 (1995), 7A406
Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, Heavy Vehicle Syst 2(3-4) 270-284 (1995), 7A409
Two dof model for jerk optimal vehicle suspensions, Vehicle Syst Dyn 25(2) 113-126 (Feb 1996), 7A410
Investigation of the loads on truck cabin aerodynamic devices, Heavy Vehicle Syst 2(3-4) 208-224 (1995), 7A976
Road surface correction of tire test data, Vehicle Syst Dyn 25(2) 147-165 (Feb 1996), 7A977
Volvo's environmental concept truck and bus, Heavy Vehicle Syst 2(3-4) 323-324 (1995), 7T979
Wide base radial truck tires: Properties and performance, Heavy Vehicle Syst 2(3-4) 187-207 (1995), 7A980
Feedforward neuro-controlled active suspension using frequency and time-mixed shape performance index - Part I: Control logic and performance, Int J Vehicle Des 17(2) 163-181 (1996), 8T327
Force control in electrohydraulic active suspensions, Vehicle Syst Dyn 25(3) 185-202 (Mar 1996), 8A328
Performance potential and power consumption of slow-active suspension systems with preview, Vehicle Syst Dyn 25(3) 169-183 (Mar 1996), 8A332
Vehicle handling design process using DOE, Int J Vehicle Des 17(1) 40-54 (1996), 8A335
Neural networks representation of a vehicle model: "Neuro-Vehicle", Int J Vehicle Des 17(1) 55-75 (1996), 8A343
Optimization of characteristics of elasto-damping elements from aspect of oscillatory comfort and vehicle handling, Int J Vehicle Des 17(1) 76-91 (1996), 8A834
Dynamic stress analysis of an open-shaped railway bogie frame, Eng Failure Anal 3(1) 53-64 (Mar 1996), 9A219
Vibration characteristics of a power tiller, J Terramech 32(4) 181-197 (Jul 1995), 9A220
Optimal preview semiactive suspension, J Dyn Syst Meas Control 118(1) 99-105 (Mar 1996), 9A429
Speed tracking and vehicle follower control design for heavy-duty vehicles, Vehicle Syst Dyn 25(4) 251-276 (Apr 1996), 9A430
Vehicle dynamics-theory into practice, Proc Inst Mech Eng D 210(D2) 83-94 (1996), 10A78
Control strategies for semi-active lorry suspensions, Proc Inst Mech Eng D 210(D2) 161-178 (1996), 10A213
Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approxi-

mation, Eng Optim 25(4) 295-307 (Mar 1996), 10A214
Standardization of a testing method for the end-stop impacts of suspension seats, J Sound Vib 192(1) 307-319 (Apr 1996), 10A215
Truck suspension design to minimize road damage, Proc Inst Mech Eng D 210(D2) 95-107 (1996), 10A216
Data-based models for automobile side impact analysis and design evaluation, Int J Impact Eng 18(5) 517-537 (Jul 1996), 10A283
Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, Int J Vehicle Des 17(3) 318-332 (1996), 11A145
Model reduction procedure for the dynamic analysis of rail vehicles subjected to linear creep forces, Vehicle Syst Dyn 25(5) 349-367 (May 1996), 11A146
Development of anti-lock braking traction and control systems of the Advanced Technology Demonstrator II using DADS simulation code, Int J Vehicle Des 17(3) 295-317 (1996), 11A324
Flexible-body dynamics modeling of a vehicle moving on the rails of a structure, J Guidance Control Dyn 19(3) 540-548 (Jun 1996), 11A326
Hydro-pneumatic slow-active suspension with preview control, Vehicle Syst Dyn 25(5) 369-386 (May 1996), 11A327
Twenty first century transportation system solutions: A new type of small, relatively tall and narrow active tilting commuter vehicle, Vehicle Syst Dyn 25(5) 321-347 (May 1996), 11A337
Coupling model of vertical and lateral vehicle-track interactions, Vehicle Syst Dyn 26(1) 61-79 (Jul 1996), 12A200
Fifth international workshop on tracked transit system noise, 1995: A summary of conclusions, J Sound Vib 193(1) 3-452 (May 1996), 12A201
Wave propagation in a finite cascade of masses and springs representing a train, Vehicle Syst Dyn 26(1) 45-60 (Jul 1996), 12A202
Active roll control of articulated vehicles, Vehicle Syst Dyn 26(1) 17-43 (Jul 1996), 12A395
Control algorithms for active cab suspensions on agriculture tractors, Vehicle Syst Dyn 25(6) 431-461 (Jun 1996), 12A401
Optimal preview control of a two dof vehicle model using stochastic optimal control theory, Vehicle Syst Dyn 25(6) 413-430 (Jun 1996), 12A410
Railway vehicles with generic bogies capable of perfect steering, Vehicle Syst Dyn 25(6) 389-412 (Jun 1996), 12A413
Static and dynamic instabilities of bogie railway vehicles with linkage steered wheelsets, Vehicle Syst Dyn 26(1) 1-16 (Jul 1996), 12A416

156H. Ships

Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, Int J Non-Linear Mech 30(5) 727-740 (Sep 1995), 5A154
Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, Int J Non-Linear Mech 30(5) 741-757 (Sep 1995), 5A155
Chaotic roll motion and capsize of ships under periodic excitation with random noise, Appl Ocean Res 17(3) 185-204 (1995), 7A200
Calculation method of resonant frequency on wave-induced shiphull vibration (Chinese), J Dalian Univ Tech 35(2) 212-215 (Apr 1995), 8A147
Method of ship vibration forecasting by databases (Chinese), J Dalian Univ Tech 35(5) 690-693 (Oct 1995), 8A148
Parameter identification of nonlinear ocean mooring systems using the Hilbert transform, J Offshore Mech Arctic Eng 118(1) 29-36 (Feb 1996), 8A149
Forced vibration of a transmission system containing friction clutch with structural friction and slide taken into consideration, Machine Dyn Prob 13 81-93 (1995), 9A221
Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, Nonlinear Dyn 9(4) 349-368 (Apr 1996), 9A1211
Exact solution for a simplified model of the heave and pitch motions of a ship hull duc to a moving load and a comparison with some experimental results, J Sound Vib 192(2) 495-520 (May 1996), 10A217
Cobblestone effect on surface effect ships, Ship Tech Res 43(2) 78-90 (May 1996), 12A203

156I. Aircraft

Improved literal approximation for lateral-directional dynamics of rigid aircraft, J Guidance Control Dyn 18(4) 925-927 (Aug 1995), 1T85
Influence of induced velocity modeling on helicopter stability, J Theor Appl Mech 33(3) 687-710 (1995), 1A177
Shape sensitivity analysis of divergence dynamic pressure, J Aircraft 32(4) 898-901 (Aug 1995), 1T178
Structural dynamic loads in response to impulsive excitation, J Aircraft 32(4) 853-861 (Aug 1995), 1A179
Review of the influence of high angle of attack aerodynamics on aircraft dynamic stability, J Theor Appl Mech 33(3) 667-686 (1995), 1A1121
Engineering feasibility of induced strain actuators for rotor blade active vibration control, J Intelligent Mat Syst Struct 6(5) 583-597 (Sep 1995), 3A109
Unified lateral approximations for longitudinal dynamics of flexible flight vehicles, J Guidance Control Dyn 18(5) 1074-1083 (Oct 1995), 3T381
New procedure for orthogonalization of measured modes considering structural symmetry (Chinese), J Vib Eng 8(3) 243-246 (Sep 1995), 4T207
Aircraft fuselage noise transmission measurements using a reciprocity technique, J Sound Vib 187(3) 467-483 (Nov 1995), 4A331
Model simplification and stability robustness with elastic flight vehicles, J Dyn Syst Meas Control 117(3) 336-342 (Sep 1995), 5A312
Partial state feedback control with application to aircraft wing vibration damping, J Sound Vib 188(3) 455-460 (Dec 1995), 6T165
Simulating and investigating effect of pylon-mounted power plant parameters on aeroelastic oscillations of airplane wing, Russian Aeronaut 38(1) 17-19 (1995), 6A166
Free and forced vibration of a cylindrical shell with a floor partition, J Sound Vib 190(1) 21-40 (Feb 1996), 7A171
Bending vibrations of adaptive cantilevers with external stores, Int J Mech Sci 38(5) 483-498 (May 1996), 8A150
Unconditional stable solutions of the Euler equations for 2D and 3D wings in arbitrary motion, Appl Math Mech 16(12) 1209-1220 (Dec 1995), 8A232
Boundary layer induced noise in aircraft - Part I: The flat plate model, J Sound Vib 192(1) 101-120 (Apr 1996), 10A342
Boundary layer induced noise in aircraft - Part II: The trimmed flat plate model, J Sound Vib 192(1) 121-138 (Apr 1996), 10A343
Characterization of periodic motions in aircraft lateral dynamics, J Guidance Control Dyn 19(3) 680-685 (Jun 1996), 11A147
Mixed H_2/H_∞ optimal control for an elastic aircraft, J Guidance Control Dyn 19(3) 650-655 (Jun 1996), 11A284

156J. Spacecraft, spacestations

Optimal modal-space controller for structural damping enhancements, J Guidance Control Dyn 18(4) 657-663 (Aug 1995), 1A380
Experimental application of an explicit optimal linear quadratic Gaussian controller, J Guidance Control Dyn 18(4) 674-677 (Aug 1995), 1A393
Vibrations of the low power atmospheric compensation experiment satellite, J Guidance Control Dyn 18(4) 650-656 (Aug 1995), 1T405
Wide-band random vibrations in members of complex structures, Int J Solids Struct 32(24) 3629-3641 (Dec 1995), 2A86
Modeling issues related to retrieval of flexible tethered satellite systems, J Guidance Control Dyn 18(5) 1169-1176 (Oct 1995), 3A164
Motion of a rigid body with an attached spring-mass damper, J Guidance Control Dyn 18(6) 1404-1409 (Dec 1995), 4A114
Roll damping for projectiles including wraparound, offset, and urbitrary number of fins, J Spacecraft Rockets 32(6) 929-937 (Dec 1995), 5A165
Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, J Dyn Syst Meas Control 117(3) 343-351 (Sep 1995), 5A332
Large retractable appendages in spacecraft, J Spacecraft Rockets 32(6) 1006-1014 (Dec 1995), 5A748
Near-optimal propulsion-system operation for an air-breathing launch vehicle, J Spacecraft Rockets 32(6) 951-956 (Dec 1995), 5A749
General formulation for N-body tethered satellite system dynamics, J Guidance Control Dyn 19(1) 75-83 (Feb 1996), 6A80
Satellite pitch dynamics in the elliptic problem of three bodies, J Guidance Control Dyn 19(1) 68-74 (Feb 1996), 6A82
Double averaging approach to the study of spinup dynamics of flexible satellites, J Guidance Control Dyn 19(1) 54-59 (Feb 1996), 6A93
Global structure modeling using force-state component identification, J Guidance Control Dyn 19(1) 198-206 (Feb 1996), 6T280
Geometric stiffness effects on data recovery of an idealized mast-blanket model, Comput Struct 59(1) 67-79 (Apr 1996), 7A201
Digitally controlled invariant active vibration-isolation system for microgravity protection, J Machinery Manuf Reliab 4 69-76 (1995), 7A397
Comparative analysis of reusable space transportation systems, J Machinery Manuf Reliab 4 1-8 (1995), 7T989
Formulation of stability conditions for systems containing driven rotors, J Guidance Control Dyn 19(2) 305-308 (Apr 1996), 8A151
Nonlinear vibrations in the tethered satellite system-mission 1, J Guidance Control Dyn 19(2) 289-296 (Apr 1996), 8A152
Dynamics and stability of a freely processing spacecraft containing a nutation damper, J Guidance Control Dyn 19(2) 297-304 (Apr 1996), 8A235
Approximate initial Lagrange costates for continuous-thrust spacecraft, J Guidance Control Dyn 19(2) 283-288 (Apr 1996), 8T307
Extra-insensitive input shapers for controlling flexible spacecraft, J Guidance Control Dyn 19(2) 385-391 (Apr 1996), 8A326
Transonic drag effect on vibration characteristics of single-stage space vehicles, J Spacecraft Rockets 33(2) 308-309 (Apr 1996), 10T218
Spinup maneuver and nonlinear active nutation damping, J Guidance Control Dyn 19(3) 704-706 (Jun 1996), 11T82
Motion of a spacecraft with magnetic damper, J Guidance Control Dyn 19(4) 980-982 (Aug 1996), 12T269
Motion control of free-floating variable geometry truss - Part I: Kinematics, J Guidance Control Dyn 19(4) 756-763 (Aug 1996), 12A386
Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, J Guidance Control Dyn 19(4) 764-771 (Aug 1996), 12A387
Adaptive control of a zero-stiffness suspension system, J Guidance Control Dyn 19(4) 794-800 (Aug 1996), 12A397
Fuel-efficient pulse command profiles for flexible spacecraft, J Guidance Control Dyn 19(4) 954-960 (Aug 1996), 12A405
Real-time optimal state feedback control for tethered subsatellite system, J Guidance Control Dyn 19(4) 972-974 (Aug 1996), 12T414

156K. Machine elements

Dynamics of a piecewise nonlinear system subject to dual harmonic excitation using parametric continuation, J Sound Vib 184(5) 767-799 (Aug 1995), 1A180
Linear dynamic analysis of multimesh transmissions containing external, rigid gears, J Sound Vib 185(1) 1-32 (Aug 1995), 1A942
Vibration Testing: Theory and Practice (Wiley, New York, 1995) 2R11
Wide bandsaw blade under cutting conditions - Part I: Vibration of a plate moving in its plane while subjected to tangential edge loading, J Sound Vib 186(1) 125-142 (Sep 1995), 2A135
Wide bandsaw blade under cutting conditions - Part II: Stability of a plate moving in its plane while subjected to parametric excitation, J Sound Vib 186(1) 143-162 (Sep 1995), 2A136
Wide bandsaw blade under cutting conditions - Part III: Stability of a plate moving in its plane while subjected to non-conservative cutting forces, J Sound Vib 186(1) 163-179 (Sep 1995), 2A137
Application of orthogonal wavelets to early gear damage detection, Mech Syst Signal Processing 9(5) 497-507 (Sep 1995), 2A702
Adaptive spectral compensation algorithm for avoiding flexural vibration of printing cylinders, J Sound Vib 187(2) 185-193 (Oct 1995), 4A208
Note on the experimentally determined elastodynamic response of a slider-crank mechanism featuring a macroscopically smart connecting rod with ceramic piezoelectric actuators and strain gauge sensors, J Sound Vib 187(4) 718-723 (Nov 1995), 4A209
Estimation of nonlinear stiffness parameters of rolling element bearings from random response of rotor-bearing systems, J Sound Vib 187(2) 229-239 (Oct 1995), 4A335
Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), J Vib Eng 8(3) 191-197 (Sep 1995), 4A391
Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), J Vib Eng 8(3) 198-203 (Sep 1995), 4A393
Simulation on the rotational vibration of helical gears in consideration of the tooth separation phenomenon: A new stiffness function of helical involute tooth pair, J Mech Des 117(3) 460-469 (Sep 1995), 5A823
Error in the reproduction of vibration in testing machinery equipment, J Machinery Manuf Reliab 2 90-95 (1995), 5T854
Dynamics and stability of beat-up at high weaving rates, Fibres Textiles in E Europe 3(1) 26-29 (Mar 1995), 6A167
Coupled torsional-lateral-axial vibration analysis of a geared shaft system using substructure synthesis, Mech Machine Theory 31(3) 345-352 (Apr 1996), 7A202
Noise and vibration analysis of an S-cam drum brake, Proc Inst Mech Eng D 210(D1) 35-43 (1996), 7A203
Vibration characteristics of tapered roller bearings, J Sound Vib 190(2) 137-147 (Feb 1996), 7A204
Single dof mechanism vibration near equilibrium, Mech Machine Theory 31(3) 339-344 (Apr 1996), 7A1023
Vibration of an aero-engine rotor incorporating two squeeze-film dampers, Proc Inst Mech Eng J Aerospace Eng 210(G1) 39-51 (1996), 8A153
Dynamic response of planetary trains to mesh parametric excitations, J Mech Des 118(1) 7-14 (Mar 1996), 8A806
Dynamic analysis and experimental correlation of a gear transmission system, Int J Turbo Jet Engines 12(4) 269-281 (1995), 9A222
Dynamical loads in a geared system with regard to shaft and bearing flexibility, Machine Dyn Prob 13 95-108 (1995), 9A223
Frequency characteristics as a method of identifying incorrect operation of the drafting systems in spinning, Fibres Textiles in E Europe 3(3) 41-43 (Aug 1995), 9A224
Resonant beahvior of a drive system with silentblock coupling, Machine Dyn Prob 13 69-79 (1995), 9A225
Stability of a rotor supported by short slide bearings, Machine Dyn Prob 13 59-68 (1995), 9A226
Filtering of the noise generated by shaft neck contour deformations in monitoring systems, Appl Math Comp Sci 6(1) 97-108 (1996), 10T219
Misalignment and vibration, Shock Vib Digest 28(2) 15-17 (Apr 1996), 10A220
Vibrations of hybrid ceramic ball bearings, J Sound Vib 192(2) 481-493 (May 1996), 10A221
Hodograph and the balancer of any frequency term of the shaking force of spatial mechanisms, Proc Inst Mech Eng C 210(C2) 135-141 (1996), 11A148
Application of wavelets to gearbox vibration signals for fault detection, J Sound Vib 192(5) 927-939 (May 1996), 11A362
Determination of component motions in a motor-operated valve using housing vibration, Mech Syst Signal Processing 10(2) 113-123 (Mar 1996), 11A866
Dynamic analysis of threaded fasteners subjected to axial vibration, J Sound Vib 193(5) 1079-1090 (Jun 1996), 12A204

156L. Machine tools

Improved transfer matrix technique as applied to BHA lateral vibration analysis, J Sound Vib 185(1) 93-106 (Aug 1995), 1A181
Experimental modal analysis and vibration monitoring of cutting tool support structure, Int J Mech Sci 37(11) 1133-1146 (Nov 1995), 2A138
Method for characterization of machine-tools dynamic parameters for diagnostic purposes, J Mat Processing Tech 53(3-4) 588-600 (Sep 1995), 3A165
Studies on differential diagnosis of chatter caused by phase-delay of dynamic cutting force (relative to vibration) (Chinese), J Vib Eng 8(2) 136-143 (Jun 1995), 3A166
Experimental research in cutting force variation during primary chatter vibration occurring in plain milling operation, Int J Machine Tools Manuf 36(2) 183-201 (Feb 1996), 4A210
Characteristics of dimension functions associated with cutting measurements, J Vib Acoust 117(3(A)) 259-264 (Jul 1995), 5A156
Error in the reproduction of vibration in testing machinery equipment, J Machinery Manuf Reliab 2 90-95 (1995), 5T854
Concept of an accuracy of coordinate measuring machines, J Machinery Manuf Reliab 3 58-68 (1995), 6A366
Complex geometry, rotary inertia and gyroscopic moment effects on drill vibrations, J Sound Vib 188(5) 701-715 (Dec 1995), 6A571
Determination of shape-size on real time chatter prediction system, J Japan Soc Precision Eng 61(12) 1765-1769 (Dec 1995), 7T205
Study on vibration control of boring tool and recognition of cutting state (Japanese), J Japan Soc Precision Eng 62(1) 105-109 (Jan 1996), 7A206
Vibration signature analysis of a faulted gear transmission system, J Propulsion Power 12(2) 289-295 (Apr 1996), 8A154
Static and dynamic stiffness of 1/10 tapered joints for automatic changing, Int J Japan Soc Precision Eng 29(4) 301-306 (Dec 1995), 9A227
Suppression of chatter vibration in inner-diameter cutting, JSME Int J Ser C 39(1) 25-33 (Mar 1996), 9A228
Study on vibration cutting characteristics using OD-blade (Japanese), J Japan Soc Precision Eng 62(3) 438-442 (Mar 1996), 9A712
Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), J Dalian Univ Tech 36(3) 301-305 (May 1996), 11A157

156M. Rotating machines and turbomachinery

Axial vibrations of the camshaft, Facta Series Mech Auto Control Robotic 1(3) 339-347 (1993), 1A182
Vibration Testing: Theory and Practice (Wiley, New York, 1995) 2R11
Effects of coupling misalignment on vibrations of rotating machinery, J Sound Vib 185(4) 655-671 (Aug 1995), 2A139

Feedforward neural networks for fault diagnosis and severity assessment of a screw compressor, Mech Syst Signal Processing 9(5) 485-496 (Sep 1995), 2A140
High pressure air compressor valve fault diagnosis using feedforward neural networks, Mech Syst Signal Processing 9(5) 527-536 (Sep 1995), 2A141
Recovery of impact signatures in machine structures, Mech Syst Signal Processing 9(5) 465-483 (Sep 1995), 2A142
Steady state forced response of a mechanical oscillator with combined parametric excitation and clearance type nonlinearity, J Sound Vib 185(5) 743-765 (Sep 1995), 2A143
Whirl speeds and stability of rotating shaft subjected to end loads, AIAA J 33(9) 1569-1573 (Sep 1995), 2A144
Diesel engine vibration analysis and fault diagnostic system (Chinese), J Vib Eng 8(2) 144-149 (Jun 1995), 3A167
Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), J Vib Eng 8(2) 178-183 (Jun 1995), 3A168
Significance of considering nonlinear effects in predicting the dynamic behavior of rotating machinery, J Vib and Control 1(4) 431-458 (Nov 1995), 3A169
Studies of multi-frequency digital controller of electromagnetic damper (Chinese), J Vib Eng 8(2) 172-177 (Jun 1995), 3A170
Adaptive spectral compensation algorithm for avoiding flexural vibration of printing cylinders, J Sound Vib 187(2) 185-193 (Oct 1995), 4A208
Dynamic stability of rotating blades with geometric nonlinearity, J Sound Vib 187(3) 421-433 (Nov 1995), 4A211
Rotordynamic standards: New developments and the need for involvement, Proc Inst Mech Eng C 209(C5) 315-322 (1995), 4A212
Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, J Eng Gas Turbines Power 117(4) 767-776 (Oct 1995), 5A157
Continuous modeling of the torsional vibrations of the drive shaft of mechanisms, J Sound Vib 188(1) 17-24 (Nov 1995), 5A158
Laser vibrometry measurements of rotating blade vibrations, J Eng Gas Turbines Power 117(3) 484-488 (Jul 1995), 5A159
Modeling fluid inertia forces of short journal bearings for rotordynamic applications, J Vib Acoust 117(4) 462-469 (Oct 1995), 5A160
Monitoring varying speed machinery vibrations - I: The use of non-stationary recursive filters, Mech Syst Signal Processing 9(6) 635-645 (Nov 1995), 5A161
Monitoring varying speed machinery vibrations - II: Recursive filters and angle domain, Mech Syst Signal Processing 9(6) 647-655 (Nov 1995), 5A162
Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, J Vib Acoust 117(3(A)) 300-310 (Jul 1995), 5A164
Effects of variational particle restitution characteristics on turbomachinery erosion, J Eng Gas Turbines Power 117(3) 432-440 (Jul 1995), 5A227
Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, J Vib Acoust 117(3(A)) 285-293 (Jul 1995), 5A697
Lyapunov's stability of nonlinear misaligned journal bearings, J Eng Gas Turbines Power 117(3) 576-581 (Jul 1995), 5A829
Gas turbine acoustic enclosure design by the statistical energy analysis method, J Eng Gas Turbines Power 117(3) 554-556 (Jul 1995), 5A1033
Use of imposed displacements to determine impact forces in a multiple blade shed incident, J Eng Gas Turbines Power 117(3) 600-605 (Jul 1995), 5A1040
Local damage assessment of metal barriers under turbine missile impacts, J Struct Eng 122(1) 99-108 (Jan 1996), 6A168
Problem of oscillatory walk of automatic washing machines, J Sound Vib 188(3) 301-314 (Dec 1995), 6A169
Torsional vibration damping of diesel engine with rubber damper pulley, JSME Int J Ser C 38(4) 670-678 (Dec 1995), 6A170
Robustness of adaptive unbalance control of rotors with magnetic bearings, J Vib and Control 2(1) 33-52 (Feb 1996), 6A330
Nonlinear friction-induced vibration in water-lubricated bearings, J Vib and Control 2(1) 87-113 (Feb 1996), 6A849
Critical forcing for homoclinic and heteroclinic orbits of a rotating pendulum, J Sound Vib 189(2) 231-248 (Jan 1996), 7A106
Quasi-periodic response and stability analysis for a nonlinear Jeffcott rotor, J Sound Vib 190(2) 239-253 (Feb 1996), 7A207
Vibration analysis of shaft-bladed disk system by using substructure synthesis and assumed modes method, J Sound Vib 189(5) 587-608 (Feb 1996), 7A208
Frequency domain parametric identification method for studying the nonlinear performance of squeeze-film dampers, J Sound Vib 189(2) 173-191 (Jan 1996), 7A210
Dynamic stability of spinning beams of unsymmetrical cross-section with distinct end conditions, J Sound Vib 189(2) 161-171 (Jan 1996), 7A642
Acoustic emission monitoring of wear in hacksaw blades, Acoust Lett 18(11) 204-211 (May 1995), 7A887
Transient nozzle excitation of mistuned bladed discs, J Sound Vib 190(4) 629-643 (Mar 1996), 8A155
Analysis of free vibration of rotating disk-blade coupled systems by using artificial springs and orthogonal polynomials, J Sound Vib 191(1) 53-73 (Mar 1996), 9A229
Asymptotic theory of broadband rotor thrust - Part I: Manipulations of flow probabilities for a high number of blades, J Appl Mech 63(1) 136-142 (Mar 1996), 9A230
Asymptotic theory of broadband rotor thrust - Part II: Analysis of the right frequency shift of the maximum response, J Appl Mech 63(1) 143-148 (Mar 1996), 9A231
Dynamic stability of a rotor filled or partially filled with liquid, J Appl Mech 63(1) 101-105 (Mar 1996), 9A232
Predicting dynamic imbalance in rotors, Probab Eng Mech 11(1) 31-35 (1996), 9A233
Relation between engine noise and crankshaft vibrations (Chinese), J Dalian Univ Tech 36(2) 198-202 (Mar 1996), 9A234
Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, J Aircraft 33(2) 322-330 (Apr 1996), 9A235
Spectrum analysis of vibrations on rotary machine sets with more rotors (Chinese), J Dalian Univ Tech 36(2) 208-211 (Mar 1996), 9A236
Whirling failure in a woodworking lathe, Eng Failure Anal 3(1) 71-76 (Mar 1996), 9T237
Polygonal deformation of roll-covering rubber, JSME Int J Ser C 39(1) 1-10 (Mar 1996), 9A278
Control issues for rigid-in-plane helicopter rotors, J Aircraft 33(2) 311-315 (Apr 1996), 9A1243
Misalignment and vibration, Shock Vib Digest 28(2) 15-17 (Apr 1996), 10A220
Active robust H^{∞} control for vibration of rotor system by controlled squeeze film damper bearing (Chinese), J Vib Eng 9(1) 69-74 (Mar 1996), 10T222
Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, J Eng Gas Turbines Power 118(2) 380-388 (Apr 1996), 10A223
Composite shaft rotordynamic analysis using a layerwise theory, J Sound Vib 191(5) 739-756 (Apr 1996), 10A224
Disk-shaft vibration induced by bearing clearance effects: Analysis and experiment, J Vib Acoust 118(2) 204-208 (Apr 1996), 10A225
Dynamic analysis of flexible rotors subjected to torque and force, J Sound Vib 192(2) 439-452 (May 1996), 10A226
Dynamic analysis of multi-rotor systems with nonliner dampers by using impedance matching method (Chinese), J Vib Eng 9(1) 60-63 (Mar 1996), 10A227
Dynamics of an unbalanced rotor with dry friction in the bearing, Mech Solids 30(5) 53-58 (1995), 10A228
Experimental leakage and rotordynamic results for helically grooved annular gas seals, J Eng Gas Turbines Power 118(2) 389-393 (Apr 1996), 10A229
Forward and backward precession of a vertical anisotropically supported rotor, J Sound Vib 192(1) 207-222 (Apr 1996), 10A230
Frequencies and modes of rotating flexible bladed disc-shaft assemblies: A global cyclic symmetry approach, J Sound Vib 191(5) 901-915 (Apr 1996), 10A231
Note on natural vibrations of turbine blade assemblies with noncontinuous shroud rings, J Sound Vib 192(2) 521-533 (May 1996), 10A232
Torsional vibrations in electrical induction motor drives during start-up, J Vib Acoust 118(2) 242-251 (Apr 1996), 10A233
Counteraction of periodic torques for rotating systems using centrifugally driven vibration absorbers, J Sound Vib 191(5) 695-719 (Apr 1996), 10A235
Determination of blade stresses under constant speed and transient conditions with nonlinear damping, J Eng Gas Turbines Power 118(2) 424-433 (Apr 1996), 10A310
Fatigue crack growth behavior of PWA 1484 single crystal superalloy at elevated temperatures, J Eng Gas Turbines Power 118(2) 399-405 (Apr 1996), 10A730
Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, J Eng Gas Turbines Power 118(2) 394-398 (Apr 1996), 10A825
Rotor whirl in compliant auxiliary bearings, J Vib and Control 2(2) 145-159 (May 1996), 10A1015
Stresses in a spinless drive for aero-engines, Proc Inst Mech Eng J Aerospace Eng 210(G2) 189-202 (1996), 11A129
Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), Strojnicky Casopis 47(1) 59-66 (1996), 11A149
Motion of rotating machinery in non-inertial reference frame, Mec Appl 39(6) 707-714 (Dec 1994), 11A150
Vibration analysis and diagnosis of a cracked shaft, J Sound Vib 192(3) 607-620 (May 1996), 11A151
Effects of a vibration mass damper in a wind turbine tower, Mech Struct Machines 24(2) 155-187 (1996), 11A152
Effects of slots on the lateral vibration of circular saw blade, Int J Machine Tools Manuf 36(7) 771-787 (Jul 1996), 12A161
Internal resonances of a cracked rotor: Major critical speed and critical speeds in procritical range, JSME Int J Ser C 39(2) 225-233 (Jun 1996), 12A205
Motorized spindle vibration, Shock Vib Digest 28(3) 11-20 (Jun 1996), 12A206
On-line controller implementation for attenuation of synchronous and transient rotor vibration, J Dyn Syst Meas Control 118(2) 315-321 (Jun 1996), 12A409

156N. Damping

Advances in Vibration Issues, Active and Passive Mitigation, Damping and Seismic Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 1N8
Equivalent viscous damping models of Coulomb friction in multi-dof vibration systems, J Sound Vib 185(1) 33-50 (Aug 1995), 1A183
Nonlinear analysis of damping properties of cylindrical sandwich panels, J Sound Vib 186(1) 55-69 (Sep 1995), 2A145
Optimal structural damping of skis using a genetic algorithm, Struct Optim 10(1) 67-70 (Aug 1995), 2A146
Influence of masonry on time dependent deformations, Asian J Struct Eng 1(1) 92-100 (1995), 2A412
Optimal constrained layer damping of beams: Experimental and numerical studies, Shock Vib 2(6) 445-450 (1995), 3A122
Effect of viscosity on vibrational processes in a combined suspension system, Mech Solids 30(1) 157-166 (1995), 3A154
Studies of multi-frequency digital controller of electromagnetic damper (Chinese), J Vib Eng 8(2) 172-177 (Jun 1995), 3A170
Perturbation method for determining eigensolutions of weakly damped systems, J Sound Vib 187(4) 671-681 (Nov 1995), 4A137
Chain dampers for control of wind-induced vibration of tower and mast structures, Eng Struct 17(9) 622-625 (Nov 1995), 4A213
Control of wind-induced instabilities through application of nutation dampers: A brief overview, Eng Struct 17(9) 626-638 (Nov 1995), 4A214
Effectiveness of tuned liquid column dampers for vibration control of towers, Eng Struct 17(9) 668-675 (Nov 1995), 4A215
Effectiveness of tuned liquid dampers under wind excitation, Eng Struct 17(9) 609-621 (Nov 1995), 4A216
Impact dampers for nonlinear vibrating systems, J Sound Vib 187(3) 403-420 (Nov 1995), 4A217
Performance of tuned mass dampers under wind loads, Eng Struct 17(9) 655-667 (Nov 1995), 4A218
Use of viscoelastic dampers in reducing wind- and earthquake-induced motion of building structures, Eng Struct 17(9) 639-654 (Nov 1995), 4A219
Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), J Vib Eng 8(3) 204-211 (Sep 1995), 4A380
Effect of damping forces on the postcritical behavior of substantially nonpotential systems, Mech Solids 30(2) 147-155 (1995), 5A81
Design and analysis of fiber enhanced viscoelastic damping polymers, J Vib Acoust 117(4) 398-404 (Oct 1995), 5A163
Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, J Vib Acoust 117(3(A)) 300-310 (Jul 1995), 5A164
Roll damping for projectiles including wraparound, offset, and arbitrary number of fins, J Spacecraft Rockets 32(6) 929-937 (Dec 1995), 5A165
Technique for biaxial damping measurement, J Sound Vib 188(1) 55-73 (Nov 1995), 5A166
Fiber contribution of modal damping of polymer matrix composite panels, J Spacecraft Rockets 32(5) 825-831 (Oct 1995), 5A480
Shape control of vibrating simply supported rectangular plates, AIAA J 34(1) 116-122 (Jan 1996), 6A138
Torsional vibration damping of diesel engine with rubber damper pulley, JSME Int J Ser C 38(4) 670-678 (Dec 1995), 6A170
Modeling of nonlinear damping characteristics of a viscoelastic structural damper, Eng Struct 18(2) 154-161 (Feb 1996), 6A171
Optimum dynamic characteristics of Stockbridge dampers for dead-end spans, J Sound Vib 188(2) 243-256 (Nov 1995), 6A172
Vibration control of a ropeway carrier by passive dynamic vibration absorbers, JSME Int J Ser C 38(4) 657-662 (Dec 1995), 6A173
Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, Shock Vib 3(2) 99-105 (1996), 7A192
Analytical solution for periodic response of elastic-friction damped systems, J Sound Vib 189(3) 299-313 (Jan 1996), 7A209
Frequency domain parametric identification method for studying the nonlinear performance of squeeze-film dampers, J Sound Vib 189(2) 173-191 (Jan 1996), 7A210
Impact damper with granular materials for multibody system, J Pressure Vessel Tech 118(1) 95-103 (Feb 1996), 7A211
Behavior of metallic plate dampers in seismic passive energy dissipation systems, Earthquake Spectra 11(4) 545-568 (Nov 1995), 7A1375
Reflections on damping technology at the end of the 20th century, J Sound Vib 190(3) 449-462 (Feb 1996), 8A156
Response of impact dampers with granular materials under random excitation, Earthquake Eng Struct Dyn 25(3) 253-267 (Mar 1996), 8A157
Seismic study of buildings with viscoelastic dampers, Struct Eng and Mech 3(6) 569-581 (Nov 1995), 8A158
Structural damping for soil-structure interaction studies, Struct Eng and Mech 3(2) 107-120 (Mar 1995), 8A159
Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, Struct Eng and Mech 3(3) 229-244 (May 1995), 8A521
Dynamic characteristics of structures with multiple tuned mass dampers, Struct Eng and Mech 3(5) 497-509 (Sep 1995), 8A758
High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, Struct Eng and Mech 3(3) 215-228 (May 1995), 8A759
Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), J Comput Struct Mech Appl 12(1) 53-59 (Feb 1995), 9A24
Dynamic testing on spring damping foundation (Chinese), J Dalian Univ Tech 36(2) 157-161 (Mar 1996), 9A213
Optimization of lifetime of mechanical systems by vibration dampers, Bull Polish Acad Sci Tech Sci 43(4) 401-411 (1995), 9T238
Active robust H^{∞} control for vibration of rotor system by controlled squeeze film damper bearing (Chinese), J Vib Eng 9(1) 69-74 (Mar 1996), 10T222
Energy input and dissipation behavior of structures with hysteretic dampers, Earthquake Eng Struct Dyn 25(5) 483-496 (May 1996), 10A1437
Sixth International Conference on Adaptive Structures Technology (Technomic, Lancaster PA, 1996) 11N16
Design sensitivity analysis and optimization of nonlinear dynamic response for a motorcycle driving on a half-sine bump road, Struct Optim 11(2) 113-119 (Apr 1996), 11A7
Effects of a vibration mass damper in a wind turbine tower, Mech Struct Machines 24(2) 155-187 (1996), 11A152
Identification of damping characteristics of viscoelastically damped structures using vibration test results, Proc Inst Mech Eng C 210(C2) 111-121 (1996), 11A153
Introduction to Motion Based Design (Comput Mech, Billerica MA, 1996) 12R4
Structural damping of tensioned pipes with reference to cables, J Sound Vib 193(4) 891-907 (Jun 1996), 12A157
Formation of viscous damping matrices for the dynamic analysis of MDOF systems, Earthquake Eng Struct Dyn 25(7) 689-709 (Jul 1996), 12A207
Impact dampers for controling self-excited oscillation, J Sound Vib 193(5) 1003-1014 (Jun 1996), 12A208
Time-domain analysis of linear hysteretic damping, Earthquake Eng Struct Dyn 25(6) 529-545 (Jun 1996), 12A209

156O. Isolation

Seismic, Shock, and Vibration Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N15
Limiting performance estimates for the active vibration isolation in multi-dof mechanical systems, J Sound Vib 186(1) 1-21 (Sep 1995), 2A147
Characterization of the dynamic properties of viscoelastic elements by the direct stiffness and master curve methodologies - Part I: Design of load frame and fixtures, J Sound Vib 186(4) 623-647 (Oct 1995), 3A171
Periodic response and stability of rigid mass resting on friction-damped SDOF oscillator, J Eng Mech 121(11) 1226-1233 (Nov 1995), 3A172

Localization and the effects of irregularities in structures, Appl Mech Rev 49(2) 55-135 (Feb 1996), 4A220
Simulation of displacement sensitive nonlinear dampers via integral formulation of damping force characterization, J Sound Vib 187(1) 95-109 (Oct 1995), 4A221
Experimental study of base isolation by free rolling rods, Earthquake Eng Struct Dyn 24(12) 1645-1650 (Dec 1995), 5A167
Modeling and performance of an experimental active vibration isolator, J Vib Acoust 117(3(A)) 272-278 (Jul 1995), 5A168
Gas-operated bearing damper for turbomachinery - theoretical predictions versus experimental measurements - Part II: Experimental results and comparison with theory, J Eng Gas Turbines Power 117(4) 750-756 (Oct 1995), 5A1280
Theoretical and experimental investigation of a gas-operated bearing damper for turbomachinery - Part I: Theoretical model and predictions, J Eng Gas Turbines Power 117(4) 742-749 (Oct 1995), 5A1289
Modeling of nonlinear damping characteristics of a viscoelastic structural damper, Eng Struct 18(2) 154-161 (Feb 1996), 6A171
Influence of flexible foundation on isolator wave effects, Shock Vib 3(1) 61-67 (1996), 6A174
Experimental study of FPS system in bridge seismic isolation, Earthquake Eng Struct Dyn 25(1) 65-78 (Jan 1996), 6A1280
Identification of dynamic properties of isolated structures, Eng Struct 18(3) 240-246 (Mar 1996), 7A212
Microgravity isolation system design: A modern control synthesis framework, J Spacecraft Rockets 33(1) 101-109 (Feb 1996), 7A213
Microgravity isolation system design: A modern control analysis framework, J Spacecraft Rockets 33(1) 110-119 (Feb 1996), 7A214
Microgravity isolation system design: A case study, J Spacecraft Rockets 33(1) 120-125 (Feb 1996), 7A215
Optimum damping in a nonlinear base isolation system, J Sound Vib 189(4) 477-487 (Feb 1996), 7A216
Digitally controlled invariant active vibration-isolation system for microgravity protection, J Machinery Manuf Reliab 4 69-76 (1995), 7A397
Experimental study of bridge seismic sliding isolation systems, Eng Struct 18(4) 301-310 (Apr 1996), 8A145
Seismic isolation retrofit of large historic building, J Struct Eng 122(3) 298-308 (Mar 1996), 8A1344
Active isolation of machine foundations by in-filled trench barriers, J Geotech Eng 122(4) 288-294 (Apr 1996), 9A239
Compression behavior of bridge bearings used for seismic isolation, Eng Struct 18(5) 351-362 (May 1996), 9A240
Prediction of observed response of base-isolated structure, J Struct Eng 122(5) 485-493 (May 1996), 10A1430
Equivalent linear model of lead-rubber seismic isolation bearings, Eng Struct 18(7) 528-536 (Jul 1996), 11A154
Hybrid-type active vibration isolation system using neural networks, J Sound Vib 192(4) 793-805 (May 1996), 11A155
Introduction to Motion Based Design (Comput Mech, Billerica MA, 1996) 12R4
Effectiveness of active tuned mass damper and seismic isolation on vibration control of multi-story building, J Sound Vib 193(4) 773-792 (Jun 1996), 12A1406

156P. Absorption

Dynamic analysis of viscoelastic fluid dampers, J Eng Mech 121(10) 1114-1121 (Oct 1995), 2A148
Characterization of automotive shock absorbers using random excitation, Proc Inst Mech Eng D 209(D4) 239-248 (1995), 4A222
Modeling the dynamic behavior of a motorcycle damper, Proc Inst Mech Eng D 209(D4) 249-262 (1995), 4A223
Reduction of vibrational power in periodically supported beams by use of a neutralizer, J Sound Vib 187(2) 329-338 (Oct 1995), 4A224
Vibration reduction of a mass-loaded beam, J Sound Vib 187(2) 213-228 (Oct 1995), 4A225
Active attenuation of periodic vibration in nonlinear systems using an adaptive harmonic controller, J Vib Acoust 117(3(A)) 355-362 (Jul 1995), 5A696
Envelope of Green's function for structural response with slightly detuned vibration absorbers, Earthquake Eng Struct Dyn 25(1) 1-13 (Jan 1996), 6A175
Introduction to the dual frequency fixed delayed resonator, J Sound Vib 189(3) 355-367 (Jan 1996), 7A914
Resonant dynamics of an autoparametric system: A study using higher-order averaging, Int J Non-Linear Mech 31(1) 21-39 (Jan 1996), 8A160
Fuzzy-logic based vibration suppression control experiments on active structures, J Sound Vib 191(1) 15-28 (Mar 1996), 9A241
Annular plate dampers attached to continuous systems, J Sound Vib 191(5) 781-793 (Apr 1996), 10A234
Counteraction of periodic torques for rotating systems using centrifugally driven vibration absorbers, J Sound Vib 191(5) 695-719 (Apr 1996), 10A235
Passive tuned vibration absorbers for sound radiation reduction from vibrating panels, J Sound Vib 191(4) 577-583 (Apr 1996), 10T236
Specific features of transformer equipment, J Machinery Manuf Reliab 6 81-86 (1995), 10A443

156Y. Computational techniques

Exact model reduction technique for beam structures: Combination of transfer and dynamic stiffness matrices, J Sound Vib 185(3) 431-440 (Aug 1995), 1A132
Eigensolutions of perturbed nearly defective matrices, J Sound Vib 185(3) 377-395 (Aug 1995), 1A167
Role of the generalized inverse in structural dynamics, J Sound Vib 186(2) 185-195 (Sep 1995), 2A89
Substructure synthesis with FRF data, J Sound Vib 185(5) 845-866 (Sep 1995), 2A129
Approximation of frequency responses based on Larsaon's method, Struct Optim 10(1) 9-15 (Aug 1995), 2A149
Equivalent polynomial approximation technique in nonlinear structural dynamics, Arch Appl Mech 65(7) 457-464 (Sep 1995), 2A150
New method for computing the upper and lower bounds on frequencies of structures with interval parameters, Mech Res Commun 22(5) 431-439 (Oct 1995), 2T151
Combination of the Lanczos algorithm with the substructure technique, J Sound Vib 186(4) 607-616 (Oct 1995), 3A111
Extension of classical modal reanalysis algorithms: The improvement of initial models, J Sound Vib 186(4) 551-560 (Oct 1995), 3A112
Mass penalty technique to control the critical time increment in explicit dynamic FE analyses, Earthquake Eng Struct Dyn 24(10) 1315-1331 (Oct 1995), 3A113
Analysis of a initially deformed and preloaded discrete-continuous system with rotating element, Machine Dyn Prob 10 37-52 (1995), 3A145
Symplectic integration and nonlinear dynamic symmetry breaking of frames, Shock Vib 2(6) 481-492 (1995), 3A147
Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), J Vib Eng 8(2) 178-183 (Jun 1995), 3A168
Location and modification of errors in structural dynamic models (Chinese), J Vib Eng 8(2) 156-161 (Jun 1995), 3A173
Pseudo-fault induction in engineering structure: Multi-input multi-output control, Nonlinear Dyn 8(3) 367-384 (Oct 1995), 4A124
Model correlation using multiple static load and vibration tests, AIAA J 33(11) 2182-2188 (Nov 1995), 4A145
Automatic time step control algorithms for structural dynamics, Comput Methods Appl Mech Eng 126(1-2) 155-178 (Sep 1995), 4A226
Hybrid parallel computation of transcendental structural eigenvalues, AIAA J 33(11) 2194-2198 (Nov 1995), 4A227
L-stable Rosenbrock method for step-by-step time integration in structural dynamics, Comput Methods Appl Mech Eng 126(3-4) 343-354 (Oct 1995), 4A228
Structural system identification using least mean square (LMS) adaptive technique, Soil Dyn Earthquake Eng 14(6) 409-418 (1995), 4A229
Approximate location of damage through the analysis of natural frequencies with artificial neural networks, Proc Inst Mech Eng E 209(E2) 117-123 (1995), 4A695
Methods of preserving symmetry in model updating, J Vib Acoust 117(3(A)) 349-354 (Jul 1995), 5A113
Comparative study on the identification methods for the autoregressive modeling from the ambient vibration records, Soil Dyn Earthquake Eng 15(1) 45-49 (1996), 5T169
Investigation of the accuracy of the solution of the constrained substructuring method, Comput Struct 58(5) 917-923 (Mar 1996), 5A170
Statistical properties of response for nonlinear structural systems with random parameters, Comput Struct 58(6) 1139-1144 (Mar 1996), 5A171
Dynamic condensation of mass and stiffness matrices, J Sound Vib 188(4) 601-615 (Dec 1995), 6A154
Vibration analysis of rubber vibration isolators of vehicle using the restoring force model of power function type: Analysis of nonlinear vibration using frequency characteristics determined by the hysteresis loop, JSME Int J Ser C 38(4) 679-685 (Dec 1995), 6A164
Nonlinear structural response using adaptive dynamic relaxation on a massively-parallel-processing system, Int J Numer Methods Eng 39(2) 235-259 (Jan 1996), 6A176
Finite Element Model Updating in Structural Dynamics (Kluwer, MA, 1995) 7R1
Iterative least-squares calculation for modal eigenvector sensitivity, AIAA J 34(2) 385-391 (Feb 1996), 7A217
Modified surface spline for expansion and smoothing of frequency response functions, Proc Inst Mech Eng J Aerospace Eng 210(G1) 77-92 (1996), 8A139
Explicit time-integration method for damped structural systems, Struct Eng and Mech 3(2) 145-162 (Mar 1995), 8A161
Fictitious mass element in structural dynamics, AIAA J 34(3) 607-613 (Mar 1996), 8A162
Subcycling integration with non-integer time steps for structural dynamics problems, Comput Struct 59(2) 273-281 (Apr 1996), 8A163
High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, Struct Eng and Mech 3(3) 215-228 (May 1995), 8A759
Bounds of eigenvalues for structures with an interval description of uncertain-but-non-random parameters, Chaos Solitons Fractals 7(3) 425-434 (Mar 1996), 9A242
Direct inversion of the impedance matrix in response reanalysis, Commun Numer Methods Eng 12(3) 151-159 (Mar 1996), 9A243
Introduction to parallel computational structural mechanics (Chinese), J Comput Struct Mech Appl 12(4) 477-484 (Nov 1995), 9A244
Mode shape expansion techniques for prediction: Experimental evaluation, AIAA J 34(4) 821-829 (Apr 1996), 9A245
New method for the improvement of measured modes through orthogonalization, AIAA J 34(4) 866-868 (Apr 1996), 9T246
Non-probablistic eigenvalue problem for structures with uncertain parameters via interval analysis, Chaos Solitons Fractals 7(3) 303-308 (Mar 1996), 9A247
Quadratic acceleration integration methods of structural dynamics equations (Chinese), J Comput Struct Mech Appl 12(4) 469-476 (Nov 1995), 9A248
Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, J Vib Eng 9(1) 64-68 (Mar 1996), 10A92
Exact residual modes and their synthesis techiques (Chinese), J Vib Eng 9(1) 38-46 (Mar 1996), 10A201
Eigenvector derivatives of structures with rigid body modes, AIAA J 34(5) 1083-1085 (May 1996), 10T237
Iterative method for calculating derivatives of eigenvectors, AIAA J 34(5) 1088-1090 (May 1996), 10T238
Modal synthesis when modeling damping by use of fractional derivatives, AIAA J 34(5) 1051-1058 (May 1996), 10A239
Selection of component modes for Craig-Bampton substructure representations, J Vib Acoust 118(2) 264-270 (Apr 1996), 10A240
Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, Eng Struct 18(7) 558-563 (Jul 1996), 11A137
Confidence region of identified parameters depending upon known parameters errors (Japanese), Proc JSCE 537(I-35) 267-275 (Apr 1996), 11A156
Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), J Dalian Univ Tech 36(3) 301-305 (May 1996), 11A157
Overview of recent advances and evaluation of the virtual-pulse (VIP) time-integral methodology for general structural dynamics problems: Computational issues and implementation aspects, Int J Numer Methods Eng 39(11) 1955-1977 (Jun 1996), 11A158
Use of energy flow concept in vibration design, AIAA J 34(6) 1250-1255 (Jun 1996), 11A159
Nonlinear structural dynamic FE analysis using Ritz vector reduced basis method, Shock Vib 3(4) 259-268 (1996), 12A22
Accelerated solutions for transcendental stiffness matrix eigenproblems, Shock Vib 3(4) 287-292 (1996), 12A141
Efficient parallel solution of structural eigenvalue problems, Adv Eng Software 25(2-3) 281-289 (1996), 12A210
Structural dynamic analysis by a time-discontinuous Galerkin FEM, Int J Numer Methods Eng 39(12) 2131-2152 (Jun 1996), 12A211
Substructuring by a two-level dynamic condensation method, Comput Struct 60(3) 403-409 (Aug 1996), 12A212
Efficient computation of closed-loop frequency response for large-order flexible systems, J Guidance Control Dyn 19(4) 780-786 (Aug 1996), 12A404

156Z. Experimental techniques

Realization of shock response spectra on a mechanical shock test machine, Shock Vib Digest 27(4) 10-14 (Aug 1995), 1A171
Vibration Testing: Theory and Practice (Wiley, New York, 1995) 2R11
Effect of viscosity on vibrational processes in a combined suspension system, Mech Solids 30(1) 157-166 (1995), 3A154
Extraction of free-free modes using constrained test data, AIAA J 33(12) 2440-2442 (Dec 1995), 4T230
Modal analysis using segmented piezoelectric sensors, AIAA J 33(12) 2371-2378 (Dec 1995), 4A231
Monitoring varying speed machinery vibrations - I: The use of non-stationary recursive filters, Mech Syst Signal Processing 9(6) 635-645 (Nov 1995), 5A161
Monitoring varying speed machinery vibrations - II: Recursive filters and angle domain, Mech Syst Signal Processing 9(6) 647-655 (Nov 1995), 5A162
Technique for biaxial damping measurement, J Sound Vib 188(1) 55-73 (Nov 1995), 5A166
Experimental study on seismic responses of piping systems with friction - Part I: Large-scale shaking table vibration test, J Pressure Vessel Tech 117(3) 245-249 (Aug 1995), 5A1320
Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, J Pressure Vessel Tech 117(3) 250-255 (Aug 1995), 5A1321
Assessment of the dynamic tension in open end spinning and parameters of yarns, Fibres Textiles in E Europe 3(2) 42-44 (Jun 1995), 6A177
Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, Fibres Textiles in E Europe 3(1) 36-38 (Mar 1995), 6A178
Measurement of the transfer function between bending strain and a transient load using a scanning laser vibrometer, J Sound Vib 189(5) 661-668 (Feb 1996), 7A191
Development of vibration analysis using contact transducers applied to periodic machine condition monitoring, Shock Vib Digest 28(1) 8-13 (Feb 1996), 7A896
Laser torsional vibrometer: A step forward in rotating machinery diagnostics, J Sound Vib 190(3) 399-418 (Feb 1996), 8A164
Theoretical and experimental study of modal strain analysis, J Sound Vib 191(2) 251-260 (Mar 1996), 9A212
Use of a rising-falling chirp excitation for vibration testing, J Sound Vib 192(2) 599-604 (May 1996), 10A141
Comparison of mechanical impedance methods for vibration simulation, Shock Vib 3(3) 223-232 (1996), 10A204
Damping augmentation for three-cable suspension system for structural testing, J Spacecraft Rockets 33(2) 292-297 (Apr 1996), 10A205
Effects of stingers on receptance function measurements, J Vib Acoust 118(2) 220-226 (Apr 1996), 10A206
Procedures to compute maximum structural responses from predictions or measurements at selected points, Shock Vib 3(3) 211-221 (1996), 10A208
Aerodynamic testing of cylindrical shell in model wind tunnel (Polish), Inzynieria Budownictwo 53(5) 307-309 (1996), 10A241
Data compression method for the modal analysis of spatially dense laser vibrometer measurements, J Brazilian Soc Mech Sci 18(1) 17-23 (Mar 1996), 10A242
Ground modal tests of space-structure components using boundary masses, J Spacecraft Rockets 33(2) 272-277 (Apr 1996), 10A946
Acoustic holography: A tool for the control and diagnostic of machines and industrial equipments (French), Rev Francaise Mec 0(1) 41-48 (1996), 11T160
Analysis of nonlinear system using Narma models, Proc JSCE 537(I-35) 11-21 (Apr 1996), 11A161
Technique for experimental acoustic modal analysis, Proc Inst Mech Eng C 210(C2) 143-151 (1996), 11A263
Experimental motion analysis of radially rotating beams using high-speed camera and motion analyzer, Shock Vib 3(4) 293-301 (1996), 12A197

158. WAVE MOTIONS IN SOLIDS

158A. General theory

Further properties of finite-amplitude plane waves in deformed Mooney-Rivlin materials, Quart J Mech Appl Math 48(3) 427-464 (Aug 1995), 1A184

Equations of the second order potentials in a bounded solid-space: Bulk and surface waves, J Sound Vib 186(4) 561-566 (Oct 1995), 3A174
Functional approach in nonlinear dynamics, Arch Mech 47(3) 421-435 (1995), 3A175
Nonexistence result for traveling front solutions in a cylindrical domain, Nonlinear Anal 26(3) 525-538 (Feb 1996), 4T232
Initial value problem of semi-linear wave equations in three space dimensions, Nonlinear Anal 26(5) 941-970 (Mar 1996), 5T172
Propagation of spherical waves in rate-sensitive elastic-plastic materials, Int J Solids Struct 33(6) 811-833 (Mar 1996), 5A173
Stability of solitary waves for coupled nonlinear Schrodinger equations, Nonlinear Anal 26(5) 933-939 (Mar 1996), 5T174
Structural differences in wave propagation in discrete and continuous systems, Arch Appl Mech 66(1-2) 100-110 (Dec 1995), 5A175
Asymptotic structure of an adiabatic shear band in antiplane motion, J Mech Phys Solids 44(1) 77-97 (Jan 1996), 6A179
Propagation of Kelvin modes, Math Mech Solids 1(1) 25-43 (Mar 1996), 9A249
Vol'Pert theory of traveling-wave solutions for parabolic systems, Nonlinear Anal 26(10) 1621-1642 (May 1996), 9T250

158B. Rods and beams, elastic

Computation of propagative waves in free rail using a FE technique, J Sound Vib 185(3) 531-543 (Aug 1995), 1A185
Power transmission in a 1D periodic structure subjected to single-point excitation, J Sound Vib 185(3) 552-558 (Aug 1995), 1A186
Structural intensity in beams-waves, transducer systems and the conditioning problem, J Sound Vib 185(2) 279-298 (Aug 1995), 1A187
Transport equation for shock strength in hyperelastic rods, Eng Trans 43(1-2) 205-224 (1995), 1A188
Effect of mass capture on the propagation of transverse waves in rotating beams, J Sound Vib 186(3) 495-525 (Sep 1995), 3A176
Analysis of wave propagation in elastic-plastic rods of a variable cross section using direct mathematical modeling, Arch Appl Mech 65(8) 537-547 (Oct 1995), 3A179
Kinematic waves in large controlled structures, Mech Solids 30(1) 167-178 (1995), 3A374
Impact force identification from wave propagation responses, Int J Impact Eng 18(1) 65-77 (Jan 1996), 5A194
Impact force location in frame structures, Int J Impact Eng 18(1) 79-97 (Jan 1996), 5A195
Conditional stability of solitary waves propagating in elastic rods, Physica D 90(1-2) 107-118 (Jan 1996), 7A218
Identification of a percussive drill rod joint from its response to stress wave loading, Int J Impact Eng 18(3) 281-290 (Apr 1996), 7A219
Longitudinal vibrations of a beam: A gradient elasticity approach, Mech Res Commun 23(1) 35-40 (Feb 1996), 7T220
Transient torsional waves in stepped circular bars: Two-dimensional numerical analysis and its experimental verification, JSME Int J Ser A 39(1) 86-92 (Jan 1996), 7A221
Wave propagation in a thick cylindrical bar due to longitudinal impact, JSME Int J Ser A 39(1) 60-70 (Jan 1996), 7A222
Computational device for prescribing incident waves to a structure via a Rayleigh-Timoshenko beam, J Sound Vib 190(5) 739-750 (Mar 1996), 8A165
Nonlinear oscillations of a thin bar, Arch Appl Mech 66(3) 168-176 (Jan 1996), 8A166
Optimum transmission of extensional waves through a non-uniform viscoelastic junction between elastic bars, Eur J Mech A 15(1) 29-49 (1996), 8A167
Animate simulation for coaxial collision of two bars (Chinese), J Dalian Univ Tech 35(2) 141-144 (Apr 1995), 8A185
Motion of a body along a string under the action of an incident wave, Mech Solids 30(5) 41-46 (1995), 10A243
Waves in a rod embraced by a moving body, Mech Solids 30(5) 118-128 (1995), 10A244
Active control of waves on a 1D structure with a scattering termination, J Sound Vib 192(3) 701-730 (May 1996), 11A162

158C. Plates and shells, elastic

Propagation of axisymmetric transverse waves along a thin-walled cylindrical pipe, Int J Pressure Vessels Piping 65(2) 109-116 (1996), 1A189
Local phase velocity measurements in plates, J Sound Vib 187(2) 241-252 (Oct 1995), 4A233
Non-destructive testing of honeycomb sandwich structures using elastic waves, J Sound Vib 187(2) 253-269 (Oct 1995), 4A234
Separation and identification of traveling wave modes in rotating disk via directional spectral analysis, J Sound Vib 187(5) 851-864 (Nov 1995), 4A235
Transmission of elastic waves from a cylinder to an attached flat plate, J Sound Vib 186(5) 761-780 (Oct 1995), 4A236
Wave scattering by circular arc shaped plates, J Eng Math 29(6) 575-589 (Nov 1995), 4A237
Dynamic extension and twist of a nonlinear elastic tube, Int J Non-Linear Mech 30(6) 887-898 (Nov 1995), 5A176
Strip element method to analyze wave scattering by cracks in anisotropic laminated plates, J Appl Mech 62(3) 607-613 (Sep 1995), 5A177
Nonstationary wave movements of oblique-angle plates under effect of instantaneously applied load, Prikl Mekh (Appl Mech) 30(12) 68-74 (1994), 7A223
Nonstationary waves radiated by a spherical shell in an elastic half-space, Mech Solids 30(4) 66-71 (1995), 7A224
Stationary waves in a two-layered cylindrical shell with elastic junction of the layers, Mech Solids 30(4) 161-167 (1995), 7A225
Coupling and attenuation of waves in plates by randomly distributed attached impedances, J Acoust Soc Am 99(4) 2167-2175 (Apr 1996), 9A251
Source influence parameters on elastic guided waves in an orthotropic plate, J Acoust Soc Am 99(4) 2124-2129 (Apr 1996), 9A252
Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, Appl Math Mech 17(1) 1-8 (Jan 1996), 9A638
Propagation of harmonic waves in an initially stressed thin elastic tube filled with an inviscid fluid, Trans Can Soc Mech Eng 20(1) 1-15 (1996), 10A245
Class of 1D stiffness microstructures resulting in identical macroscale response, Wave Motion 23(3) 237-258 (May 1996), 11A163
Shocks detection in a piping system network (French), Rev Francaise Mec 0(1) 13-20 (1996), 11A164
Dynamically propagating shear bands in impact-loaded prenotched plates - Part I: Experimental investigations of temperature signatures and propagation speed, J Mech Phys Solids 44(6) 981-1006 (Jun 1996), 12A213
Dynamically propagating shear bands in impact-loaded prenotched plates - Part II: Numerical simulations, J Mech Phys Solids 44(6) 1007-1032 (Jun 1996), 12A214
Transient elastic waves in a transversely isotropic plate, J Appl Mech 63(2) 337-346 (Jun 1996), 12A215
Wave propagation in circular cylindrical shells with periodic axial curvature, Wave Motion 23(4) 339-352 (Jun 1996), 12A216

158D. Infinite and semi-infinite media, elastic

Waves generated by an incident shock in a peculiar hyperelastic material, J Theor Appl Mech 33(3) 551-576 (1995), 1A190
Elastic Herglotz functions, SIAM J Appl Math 55(5) 1345-1361 (Oct 1995), 2A152
Approximation to strip impulse response of a half-space and interpretation of DSSI from wave scattering-propagation (Japanese), Proc JSCE 525(1-33) 345-349 (Oct 1995), 5A178
Limiting absorption principle for elastic wave propagation problems in perturbed stratified media R^n, Math Methods Appl Sci 19(3) 187-215 (Feb 1996), 7A226
Effects of pre-stresses on the propagation of nonlinear surface waves in an incompressible elastic half-space, Quart J Mech Appl Math 49(1) 65-80 (Feb 1996), 7A227
Double wave diffraction by a massive strip lying on a transversally isotropic half-space, Mech Solids 30(4) 88-92 (1995), 7A244
Methods for solving 1D boundary-value problems in a nonlinear elastic medium, Acta Mech 114(1-4) 51-69 (1996), 8A168
Dynamic response of a half-space to radial shear surface loadings, Arch Appl Mech 66(3) 137-148 (Jan 1996), 8A186
Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, Acta Mech 115(1-4) 203-211 (1996), 9A253
Transient groundmotion in an elastic homogeneous halfspace to blasting loading, Soil Dyn Earthquake Eng 15(3) 151-159 (1996), 9A254
Dynamic-stiffness matrix for in-plane motion in a layered depth-dependent randomly inhomogeneous semi-infinite medium, Acta Mech 115(1-4) 39-54 (1996), 9A264
Elastodynamic analysis of nonplanar cracks in a half-space, Acta Mech 115(1-4) 67-78 (1996), 9A269
SH-wave Green tensor for homogeneous transversely isotropic media by higher-order approximations in asymptotic ray theory, Wave Motion 23(1) 83-93 (Feb 1996), 10A246
Dispersion of axisymmetric elastic waves in a hollow anisotropic cylinder (Polish), Strojnicky Casopis 47(1) 52-58 (1996), 11A165
Theory for the diffraction of SH waves by randomly rough surfaces in 2D, Quart J Mech Appl Math 49(2) 261-286 (May 1996), 11A182

158E. Structures, elastic

Mode localization up to high frequencies in coupled 1D subsystems, J Sound Vib 185(1) 79-91 (Aug 1995), 1A201
Synthesis of the dispersion curves for a cylindrical shell on the basis of approximate theories, J Sound Vib 186(1) 37-53 (Sep 1995), 2A153
Wave propagation along longitudinally periodically supported or stiffened prismatic plate assemblies, J Sound Vib 186(2) 197-205 (Sep 1995), 2A154
Wave propagation in 1D multi-bay periodically supported panels under supersonic fluid flow, J Sound Vib 186(1) 71-86 (Sep 1995), 2A155
Wave propagation through cylinder-plate junctions, J Sound Vib 186(3) 447-461 (Sep 1995), 3A177
Kinematic waves in large controlled structures, Mech Solids 30(1) 167-178 (1995), 3A374
Localization and the effects of irregularities in structures, Appl Mech Rev 49(2) 55-135 (Feb 1996), 4A220
Analysis of liquid-core cylindrical acoustic waveguides embedded in solid media, J Eng Mech 122(1) 1-9 (Jan 1996), 6A180
Wave propagation in continuous periodic structures: Research contributions from Southampton, 1964-1995, J Sound Vib 190(3) 495-524 (Feb 1996), 8A169
Asymptotic analysis of the field on the exterior surface of an open semi-infinite thin circular pipe, Wave Motion 23(3) 215-235 (May 1996), 11A166
Transient electromagnetic wave propagation in transverse periodic media, Wave Motion 23(3) 259-277 (May 1996), 11A167

158F. Surface waves

Approximation to surface admittance of Y-rotated langasite, Arch Acoust 20(1) 91-94 (1995), 1A191
Coupled backward waves in certain planar doubly periodic systems, J Tech Phys 36(2) 215-229 (1995), 3A178
Second order harmonics of surface waves in isotropic solids, J Sound Vib 187(3) 369-379 (Nov 1995), 4A238
Limits of linear moment tensor inversion of surface wave spectra, Pure Appl Geophys 145(2) 235-257 (Nov 1995), 4A1321
Rayleigh wave dispersion due to spatial (FEM) discretization of a thin elastic solid having non-curved boundary, Comput Struct 58(6) 1233-1244 (Mar 1996), 5A179
Traveling-wave decomposition of surface displacements associated with scattering by a cylindrical shell: Numerical evaluation displaying guided forward and backward wave properties, J Acoust Soc Am 98(6) 3501-3507 (Dec 1995), 5A275
Variation principles of Love waves and the inversion technique for Love surface waves methods (Chinese), J Vib Eng 8(4) 324-330 (Dec 1995), 6A181
Leaky Rayleigh wave scattering from elastic media with random microstructures, J Acoust Soc Am 99(1) 88-99 (Jan 1996), 6A209
Effects of pre-stresses on the propagation of nonlinear surface waves in an incompressible elastic half-space, Quart J Mech Appl Math 49(1) 65-80 (Feb 1996), 7A227
Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, J Acoust Soc Am 99(2) 926-930 (Feb 1996), 7A228
Comparison between the Tiersten model and O(H) boundary conditions for elastic surface waves guided by thin layers, J Appl Mech 63(1) 162-167 (Mar 1996), 9A255
Experiments on surface waves over a model impedance plane using acoustical pulses, J Acoust Soc Am 99(4) 1993-2005 (Apr 1996), 9A256
Frictional contact between the surface wave and a rigid strip, J Appl Mech 63(1) 15-20 (Mar 1996), 9A257
Polygonal deformation of roll-covering rubber, JSME Int J Ser C 39(1) 1-10 (Mar 1996), 9A278
Application of mechanical waves induced by piezofilms to marine fouling prevention, J Intelligent Mat Syst Struct 7(1) 33-43 (Jan 1996), 9A980
Lamb and shear-horizontal wave production by interdigital transducers deposited on both sides of a piezoelectric plate, J Acoust Soc Am 99(5) 2876-2882 (May 1996), 10A247
Propagation of torsional surface waves in a homogeneous substratum over a heterogeneous half space, Int J Numer Anal Methods Geomech 20(4) 287-294 (Apr 1996), 10A248
Torsional surface waves in nonhomogeneous and anisotropic medium, J Acoust Soc Am 99(5) 2737-2741 (May 1996), 10A249
Plane inverse problem of elastic wave scattering by a thin-walled inclusion of little rigidity, Mech Solids 30(5) 79-87 (1995), 10A267
Propagation of Rayleigh waves in a heterogeneous incompressible substratum over a homogeneous incompressible half-space, Int J Numer Anal Methods Geomech 20(5) 365-375 (May 1996), 11A168
Thermoelastic surface waves of an assigned wavelength, J Thermal Stresses 19(4) 369-377 (Jun 1996), 12A1284

158G. Nonlinear motions

Waves generated by an incident shock in a peculiar hyperelastic material, J Theor Appl Mech 33(3) 551-576 (1995), 1A190
Analysis of harmonic distortion in electroacoustic transducers, J Acoust Soc Am 98(3) 1596-1611 (Sep 1995), 1A192
Nonlinear wave transmission in a monocoupled elastic periodic system, J Acoust Soc Am 98(3) 1534-1546 (Sep 1995), 1A193
Riemann problem for an elastic bar that changes phase, Quart Appl Math 53(3) 575-600 (Sep 1995), 1A194
Waves Called Solitons: Concepts and Experiments (Springer, New York, 1994) 2R12
Nonlinear Wave Equations - Pure and Applied Mathematics Series, Vol 194 (Marcel Dekker, New York, 1996) 7R6
Effects of pre-stresses on the propagation of nonlinear surface waves in an incompressible elastic half-space, Quart J Mech Appl Math 49(1) 65-80 (Feb 1996), 7A227
Nonlinear properties of solids and some peculiarities of Rayleigh waves propagation in the bodies with initial stresses, Prikl Mekh (Appl Mech) 31(2) 62-66 (1995), 7A229
Nonlinear oscillations of a thin bar, Arch Appl Mech 66(3) 168-176 (Jan 1996), 8A166
Methods for solving 1D boundary-value problems in a nonlinear elastic medium, Acta Mech 114(1-4) 51-69 (1996), 8A168
Effect of slight anisotropy on the properties of shock waves in a compressible elastic medium, J Appl Math Mech 59(5) 763-767 (1995), 8A170
Deformation waves in thermoelastic media and the concept of internal variables, Arch Appl Mech 66(3) 200-207 (Jan 1996), 8A1228
Increase of the simple wave maximum amplitude in active media, Int J Non-Linear Mech 31(2) 211-214 (Mar 1996), 10A250
Explicit and exact solutions to a Kolmogorov-Petrovskii-Piskunov equation, Int J Non-Linear Mech 31(3) 329-338 (May 1996), 11A169
Elastic pulsed wave propagation in media with second- or higher-order nonlinearity - Part I: Theoretical framework, J Acoust Soc Am 99(6) 3334-3345 (Jun 1996), 12A217
Elastic pulsed wave propagation in media with second- or higher-order nonlinearity - Part II: Simulation of experimental measurements on Berea sandstone, J Acoust Soc Am 99(6) 3346-3352 (Jun 1996), 12A218
Nizhnik-Veselov-Novikov equation: Associated boundary value problems, Int J Non-Linear Mech 31(4) 441-450 (Jul 1996), 12A229

158H. Plastic, viscoplastic waves

Acceleration waves in finitely deformed elastic-plastic solids, Eur J Mech A 14(4) 529-551 (1995), 1A195
Combined plastic simple waves in a thin-walled tube, Arch Mech 47(2) 337-351 (1995), 1A196
Spherical elastic-plastic waves, J Vib and Control 1(3) 345-360 (Aug 1995), 1A197
Analysis of wave propagation in elastic-plastic rods of a variable cross section using direct mathematical modeling, Arch Appl Mech 65(8) 537-547 (Oct 1995), 3A179
Perturbed scale-invariant initial value problems in 1D dynamic elastoplasticity, SIAM J Math Anal 26(6) 1564-1587 (Nov 1995), 3A180
Propagation of spherical waves in rate-sensitive elastic-plastic materials, Int J Solids Struct 33(6) 811-833 (Mar 1996), 5A173
Interaction of cylindrical blast waves in viscoplastic medium with immobile obstacle (Russian), Prikl Mekh (Appl Mech) 31(5) 54-61 (1995), 7T230
Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, JSME Int J Ser A 39(1) 78-85 (Jan 1996), 7A253
Elementary theory of 1D rod penetration using a new estimate for pressure, Int J Impact Eng 18(3) 265-279 (Apr 1996), 7A254
L/D effect for long-rod penetrators, Int J Impact Eng 18(3) 247-264 (Apr 1996), 7A255

158I. Viscoelastic waves

Existence of shock profiles for viscoelastic materials with memory, SIAM J Math Anal 26(5) 1130-1142 (Sep 1995), 1A198

Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - I: Fundamental solutions, Soil Dyn Earthquake Eng 15(2) 119-127 (1996), 8A171

Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - II: Applications, Soil Dyn Earthquake Eng 15(2) 129-139 (1996), 8A172

Propagation of torsional surface waves in viscoelastic medium, Int J Numer Anal Methods Geomech 20(3) 209-213 (Mar 1996), 8A173

Waves generated by a plane source of dilatation in a viscoelastic medium, Mech Res Commun 23(2) 189-194 (Apr 1996), 8T174

Generalization of the Achenbach-Chao model for waves in nonlinear hereditary media, Int J Non-Linear Mech 31(2) 203-210 (Mar 1996), 10A251

158J. Ultrasonic propagation

Reproducible time-of-flight measurements with a piezoelectric transducer for acoustoelastic stress evaluation, Exp Mech 35(3) 266-271 (Sep 1995), 2A156

Ultrasonic wave propagation through a cracked solid, Wave Motion 22(3) 297-310 (Nov 1995), 4A239

Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service, Revised Edition (CRC Press, Boca Raton FL, 1996) 5N11

Ultrasonic nondestructive evaluation of inhomogeneous plane strain in elastic medium, Res Nondestructive Eval 7(1) 55-68 (1995), 6A696

Ultrasonic stress measurements based on the generalized acoustic ratio technique, Int J Solids Struct 33(8) 1157-1174 (Mar 1996), 6A697

Absorption of ultrasonic waves in the mixtures of Kneser liquids, Arch Acoust 20(4) 401-410 (1995), 9A258

Propagation of ultrasonic waves in condenser oil at presence of DC electric field, Arch Acoust 20(4) 387-400 (1995), 9T259

Radiation of piezoelectric rings into the air through cylindrical waveguides, Arch Acoust 20(4) 361-372 (1995), 9A260

Ultrasonic characteristics in the description of the surface layer of a flexible pavement, Arch Civil Eng 42(1) 105-124 (1996), 9A681

Numerical technique for bond correction in ultrasonic measurements, Acoust Lett 19(1) 11-14 (Jul 1995), 10A861

Stress distribution determination in isotropic materials via inversion of ultrasonic Rayleigh wave dispersion data, Int J Solids Struct 33(17) 2437-2451 (Jul 1996), 11A414

158K. Anisotropic media

Body-wave radiation patterns and AVO in transversely isotropic media, Geophys 60(5) 1409-1425 (Oct 1995), 1A199

Morphological stability of a propagating domain wall in 2D ferroelastic transformations, Int J Solids Struct 32(23) 3393-3405 (Dec 1995), 1A200

Construction of a characteristic matrix form of the dynamic equations for anisotropic elastic-visco-plastic media, Mech Solids 30(1) 85-89 (1995), 3A181

Plane progressive waves in anisotropic constrained materials with an application to Kirchhoff plate-like bodies, Eur J Mech A 14(6) 921-938 (1995), 4A240

Elastic waves in a composite containing inhomogeneous fibers, Int J Eng Sci 34(1) 67-79 (Jan 1996), 5A180

Numerical modeling of acoustic emission signal propagation in a thin strip, J Czech Slovak Mech Eng 3(2) 141-149 (Jun 1993), 6A182

Elastic wave scattering in porous media, Mech Solids 30(3) 71-76 (1995), 6A185

Longitudinal elastic waves in anisotropic media, Mech Solids 30(4) 72-74 (1995), 7A231

Interaction of plane SH-waves and circular cavity surfaced with lining in anisotropic media, Appl Math Mech 16(12) 1149-1159 (Dec 1995), 8A175

Wave scattering from inhomogeneous anisotropic layers, Acta Mech 114(1-4) 151-165 (1996), 8A184

Propagation of Kelvin modes, Math Mech Solids 1(1) 25-43 (Mar 1996), 9A249

Guided antiplane shear wave propagation in layers reinforced by periodically spaced cylinders, J Acoust Soc Am 99(4) 1937-1943 (Apr 1996), 9A261

Propagation of elastic waves in equiaxed stainless-steel polycrystals with aligned [001] axes, J Acoust Soc Am 99(4) 2086-2096 (Apr 1996), 9A262

Influence of gravity and an initial stress on the propagation of waves in an orthotropic elastic medium, Mec Appl 40(2-3) 403-408 (Jun 1995), 11A170

Modal density of anisotropic structural components, J Acoust Soc Am 99(6) 3481-3487 (Jun 1996), 12A219

158L. Layered and nonhomogeneous media

Mode localization up to high frequencies in coupled 1D subsystems, J Sound Vib 185(1) 79-91 (Aug 1995), 1A201

Poynting theorem of acoustic wave propagating in an inhomogeneous moving medium, J Sound Vib 184(5) 942-945 (Aug 1995), 1A202

Wave propagation in periodically laminated composites, Bull Polish Acad Sci Tech Sci 43(1) 1-12 (1995), 1A203

Wave pulses in 2D randomly stratified elastic media, Arch Mech 47(1) 125-139 (1995), 1A204

Discontinuity waves in a periodic layered medium, Z Angew Math Mech 75(9) 699-706 (1995), 2A157

Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, J Mech Phys Solids 43(10) 1673-1690 (Oct 1995), 2A158

Scattering of plane waves in inhomogeneous half-space, Appl Math letters 8(2) 13-19 (Mar 1995), 2A162

Length-scale effects in wave propagation and stability of elastic composites under finite deformations, J Theor Appl Mech 33(4) 749-769 (1995), 3A63

Frequency-dependent Q-estimation of Love-type channel waves and the application of Q-correction to seismograms, Geophys 60(6) 1773-1789 (Dec 1995), 3A182

Magnetostructural shear waves in ferrite-dielectric layer (Russian), Prikl Mekh (Appl Mech) 30(10) 84-91 (1994), 3A183

New generalization of the Cagniard-De Hoop method for absorbing media, Mech Solids 30(1) 77-84 (1995), 3A184

Three-dimensional Green's function for elastic waves in multilayer cylindrical structures, J Acoust Soc Am 98(5) 2825-2835 (Nov 1995), 3A185

Strip element method for characterization of flaws in sandwich plates, JSME Int J Ser A 38(4) 554-562 (Oct 1995), 3A745

Elastodynamic problems for laminated and fibrillar bodies, Arch Rational Mech Anal 132(1) 73-99 (1995), 4A241

Long nonlinear strain waves in layered elastic half-space, Int J Non-Linear Mech 30(6) 861-877 (Nov 1995), 5A181

Small but finite amplitude waves in a two-layered incompressible elastic medium, Int J Eng Sci 34(2) 227-241 (Jan 1996), 5A182

Measurement and prediction of time domain waveforms in fiber-reinforced laminates, J Acoust Soc Am 98(6) 3383-3390 (Dec 1995), 5A271

Wave transmission through 1D near periodic structures: Optimum and random disorder, J Sound Vib 188(5) 717-743 (Dec 1995), 6A183

Elastic wave scattering in porous media, Mech Solids 30(3) 71-76 (1995), 6A185

Stationary waves in a two-layered cylindrical shell with elastic junction of the layers, Mech Solids 30(4) 161-167 (1995), 7A225

Limiting absorption principle for elastic wave propagation problems in perturbed stratified media R^n, Math Methods Appl Sci 19(3) 187-215 (Feb 1996), 7A226

Beyond effective medium theory: Pulse stabilization for multimode wave propagation in high-contrast layered media, SIAM J Appl Math 56(1) 256-276 (Feb 1996), 7A232

Distribution of free waves in the composite plate with elastic coupling between layers, Prikl Mekh (Appl Mech) 31(2) 48-55 (1995), 7A233

General study of axisymmetric waves in layered anisotropic fibers and their composites, J Acoust Soc Am 99(2) 931-941 (Feb 1996), 7A234

Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, Prikl Mekh (Appl Mech) 31(1) 50-58 (1995), 7A235

Interrelation with cylindrical cavity of nonstationary spherical waves radiated by the interior source, Prikl Mekh (Appl Mech) 30(12) 19-25 (1994), 7A236

Propagation of electroacoustic waves in laminar cylinder with conducting layers, Prikl Mekh (Appl Mech) 31(2) 7-15 (1995), 7A237

Wave propagation in layered media under initial stresses, Appl Math Comput 74(2-3) 95-117 (Feb 1996), 7A238

Wave triplets in two-phase composites, Mech of Composite Mat 31(5) 660-670 (Oct 1995), 7A239

Reflection and transmission of vertically polarized transverse seismic waves at the interface between two randomly nonhomogeneous elastic media, Mech Solids 30(4) 75-79 (1995), 7A240

Equivalent stiffness of a half-space interacting with a beam: Critical velocities of a moving load along the beam, Eur J Mech A 15(1) 67-90 (1996), 8A176

Wave scattering from inhomogeneous anisotropic layers, Acta Mech 114(1-4) 151-165 (1996), 8A184

Complete spectrum of normal P-SV-waves in the bilayered transversal-isotropic waveguide, Prikl Mekh (Appl Mech) 31(8) 18-23 (1995), 9A263

Dynamic-stiffness matrix for in-plane motion in a layered depth-dependent randomly inhomogeneous semi-infinite medium, Acta Mech 115(1-4) 39-54 (1996), 9A264

Influence of shear strain and hydrostatic stress on stability and elastic waves in a layer, Int J Eng Sci 34(4) 375-397 (Mar 1996), 9A265

Leaky plate modes: Radiation into a solid medium, J Acoust Soc Am 99(4) 1894-1900 (Apr 1996), 9A266

Plate wave flow patterns for ply orientation imaging in reinforced composites, Mat Eval 54(4) 518-523 (Apr 1996), 9A267

Trigonometrical representation of transfer matrix for layered elastic material, Eng Trans 43(3) 461-474 (1995), 9A268

Inhomogeneous plane-wave scattering and mode simulation on periodic rough surfaces, J Acoust Soc Am 99(5) 2883-2897 (May 1996), 10A252

Method of interface inversion in inhomogeneous media, Acta Mech Sinica 11(4) 337-348 (1995), 10A253

Transition matrix inversion method in a stratified medium (Chinese), J Vib Eng 9(1) 86-91 (Mar 1996), 10A254

Wave propagation in anisotropic layered media, Arch Mech 48(2) 411-427 (1996), 10A255

Estimative analysis of SH-waves propagation through a layered half-space, Mec Appl 40(4-6) 461-465 (Dec 1995), 11T171

Generalized propagation matrix method for seismic wave propagation in inhomogeneous attenuating medium (Chinese), J Comput Struct Mech Appl 13(2) 201-207 (May 1996), 11A172

Light transfer problem in turbid media with surface reflectivity, Waves in Random Media 6(2) 101-118 (Apr 1996), 11A177

Effects of obstacles on Rayleigh wave dispersion obtained from the SASW test, Soil Dyn Earthquake Eng 15(4) 223-231 (1996), 12A220

Energy and dissipation of inhomogeneous plane waves in thermoelasticity, Wave Motion 23(4) 393-406 (Jun 1996), 12A221

Method of simultaneous analysis of waves propagating in multilayered media by BEM, JSME Int J Ser C 39(2) 195-202 (Jun 1996), 12A222

Propagation of elastic waves through a layered poroelastic medium, J Acoust Soc Am 99(6) 3385-3392 (Jun 1996), 12A223

Transient elastic waves in finite layered media: 2D axisymmetric analysis, J Acoust Soc Am 99(6) 3513-3527 (Jun 1996), 12A224

158M. Granular and porous media

Influence of viscous coupling in propagation of elastic waves in saturated soil, J Geotech Eng 121(9) 636-644 (Sep 1995), 1A697

Dynamics and wave propagation in dilatant granular materials, Meccanica 30(4) 341-357 (Aug 1995), 2A159

Acoustic FE formulation of a flexible porous material: A correction for inertial effects, J Sound Vib 185(4) 559-580 (Aug 1995), 2A233

Development of ground liquefaction due to surface waves, Arch Mech 47(3) 557-576 (1995), 3A186

Superconvergence results for Galerkin methods wave propagation in various porous media, Numer Methods PDE 12(1) 99-122 (Jan 1996), 5A183

Wavefront propagation in a class of random microstructures - II: Nonlinear elastic grains, Int J Non-Linear Mech 30(6) 771-781 (Nov 1995), 5A184

Construction Vibrations - Prentice Hall International Series in Civil Engineering and Engineering Mechanics (Prentice Hall, Upper Saddle River, NJ, 1996) 8R8

Dynamic microstructural FEM for granular structures, Eng Fracture Mech 53(4) 593-606 (Mar 1996), 8A21

Plane shear waves and loss of stability in a saturated granular body, Mech Cohesive-Frictional Mat 1(1) 25-44 (Jan 1996), 10A256

Dispersion and wave propagation in discrete and continuous models for granular materials, Int J Solids Struct 33(19) 2841-2858 (Aug 1996), 11A173

Growth and decay of acceleration waves in incompressible saturated poroelastic solids, Z Angew Math Mech 76(6) 341-347 (1996), 12A225

Wave-induced uplift force acting on a submarine buried pipeline: FE formulations and verification of computations, Comput Geotech 19(1) 47-73 (1996), 12A658

158N. Random waves or media

Effective transmission properties of a randomly segmented elastic bar, J Sound Vib 185(3) 545-551 (Aug 1995), 1A205

Propagation of non-stationary random waves along substructural chains, J Sound Vib 187(4) 585-593 (Nov 1995), 4A242

Spectral analysis of randomly scattered signals using the wavelet transform, Wave Motion 22(2) 145-170 (Sep 1995), 4A243

Wave transmission through 1D near periodic structures: Optimum and random disorder, J Sound Vib 188(5) 717-743 (Dec 1995), 6A183

Analysis of layered solid-fluid media using a discrete wavenumber and normal-mode superposition method, Bull Seismol Soc Am 85(6) 1718-1729 (Dec 1995), 6A184

Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, Bull Seismol Soc Am 85(6) 1679-1687 (Dec 1995), 6A1247

Locally generated surface waves in Santa Clara Valley: Analysis of observations and numerical simulation, Earthquake Eng Struct Dyn 25(1) 47-63 (Jan 1996), 6A1284

Beyond effective medium theory: Pulse stabilization for multimode wave propagation in high-contrast layered media, SIAM J Appl Math 56(1) 256-276 (Feb 1996), 7A232

Reflection and transmission of vertically polarized transverse seismic waves at the interface between two randomly nonhomogeneous elastic media, Mech Solids 30(4) 75-79 (1995), 7A240

Statistics of wave transmission through disordered periodic waveguides, J Sound Vib 189(4) 421-441 (Feb 1996), 7A241

Radar scatter cross sections for 2D random rough surfaces: Full wave solutions and comparisons with experiments, Waves in Random Media 6(1) 1-23 (Jan 1996), 8A178

Transmission scatter cross sections across 2D random rough surfaces: Full wave solutions and comparison with numerical results, Waves in Random Media 6(1) 25-48 (Jan 1996), 8A180

Localization and mode conversion for elastic waves in randomly-layered media II, Wave Motion 23(2) 181-201 (Mar 1996), 10A257

Localization and mode conversion for elastic waves in randomly-layered media - I, Wave Motion 23(1) 1-22 (Feb 1996), 10A258

Reflection of waves from a strong scatterer buried in a random medium, Waves in Random Media 6(2) 119-133 (Apr 1996), 10A259

Wave beam tremble within an absorbing random medium with lens properties, Waves in Random Media 6(2) 87-100 (Apr 1996), 10A260

Reflection of waves from a strong scatterer buried in a random medium, Waves in Random Media 6(2) 119-133 (Apr 1996), 11A174

Wave beam tremble within an absorbing random medium with lens properties, Waves in Random Media 6(2) 87-100 (Apr 1996), 11A175

158O. Absorption

New generalization of the Cagniard-De Hoop method for absorbing media, Mech Solids 30(1) 77-84 (1995), 3A184

Asymptotic structure of an adiabatic shear band in antiplane motion, J Mech Phys Solids 44(1) 77-97 (Jan 1996), 6A179

158Q. Reflection, refraction, diffraction, and scattering

Generation of elastic waves in a piezoelectric plate by interdigital transducers, Arch Acoust 20(2) 177-189 (1995), 1A206

Hybrid analysis of Lamb wave reflection by a crack at the fixed edge of a composite plate, Comput Methods Appl Mech Eng 125(1-4) 221-233 (Sep 1995), 1A207

Information on elastic parameters obtained from the amplitudes of reflected waves, Geophys 60(5) 1426-1436 (Oct 1995), 1A208

Spurious bulk wave excitation in saw grating reflectors on GaAs (001) (110), Arch Acoust 20(2) 171-175 (1995), 1A209

Brewster angle for fluid-solid interfaces, J Sound Vib 185(3) 501-506 (Aug 1995), 1A249

Diffraction of elastic waves by two parallel rigid strips embedded in an infinite orthotropic medium, Int J Eng Sci 33(13) 1943-1958 (Oct 1995), 2A160

Numerical simulation of shock waves in linear-elastic plates with curvilinear boundaries and material interfaces, Int J Impact Eng 16(5-6) 711-725 (Dec 1995), 2A161

Scattering of plane waves in inhomogeneous half-space, Appl Math letters 8(2) 13-19 (Mar 1995), 2A162

Scattering and diffraction of a plane wave by a randomly rough half-plane, Waves in Random Media 5(4) 443-459 (Oct 1995), 3A187

Scattering of a scalar wave from a 2D randomly rough Neumann surface, Waves in Random Media 5(4) 381-411 (Oct 1995), 3A188

Tilt-invariant theory of rough-surface scattering: I, Waves in Random Media 5(4) 361-380 (Oct 1995), 3A189
Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, Waves in Random Media 5(4) 461-495 (Oct 1995), 3A564
Transmission of elastic waves from a cylinder to an attached flat plate, J Sound Vib 186(5) 761-780 (Oct 1995), 4A236
Low-frequency penetration of acoustic waves through a periodic arbitrary-shaped grating: The 3D problem, Wave Motion 22(2) 133-144 (Sep 1995), 4A244
Rayleigh wave scattering by a wedge, Wave Motion 22(3) 239-257 (Nov 1995), 4A245
Series solution for scattering of plane SH-waves by multiple shallow circular-arc canyons, Appl Math Mech 16(7) 657-666 (Jul 1995), 4A246
Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load, Wave Motion 22(3) 259-277 (Nov 1995), 4A314
Wave propagation in strings with rigid bodies, J Vib Acoust 117(4) 493-500 (Oct 1995), 5A132
Strip element method to analyze wave scattering by cracks in anisotropic laminated plates, J Appl Mech 62(3) 607-613 (Sep 1995), 5A177
Numerical modeling for scattering of waves in 3D cracked material, Int J Numer Methods Eng 38(24) 4081-4100 (Dec 1995), 5A185
Elastic wave scattering in porous media, Mech Solids 30(3) 71-76 (1995), 6A185
Normally incident transverse wave scattering by a plane crack, Mech Solids 30(3) 77-91 (1995), 6A186
Effects of initial deformation in thin tubes on wave reflection and transmission at mechanical mismatch, J Sound Vib 188(4) 461-478 (Dec 1995), 6A197
Comparative study of diffraction fields generated by elastic waves passing through imperfections of various nature, Mech Solids 30(4) 93-102 (1995), 7A242
Diffraction of SH-waves by subsurface inclusions of arbitrary shape, J Eng Mech 122(2) 123-129 (Feb 1996), 7A243
Double wave diffraction by a massive strip lying on a transversally isotropic half-space, Mech Solids 30(4) 88-92 (1995), 7A244
Numerical analysis of nonstationary plane elastic wave diffraction on a rigid wedge, Mech Solids 30(4) 80-87 (1995), 7A245
Optimum transmission of extensional waves through a non-uniform viscoelastic junction between elastic bars, Eur J Mech A 15(1) 29-49 (1996), 8A167
Modeling and evaluating the scattering of Rayleigh waves by a linear distribution of surface cracks, J Nondestruct Eval 14(3) 99-108 (Sep 1995), 8A177
Radar scatter cross sections for 2D random rough surfaces: Full wave solutions and comparisons with experiments, Waves in Random Media 6(1) 1-23 (Jan 1996), 8A178
Reflection and transmission of the energy of harmonic elastic waves in a bent bar, J Sound Vib 190(4) 645-659 (Mar 1996), 8A179
Transmission scatter cross sections across 2D random rough surfaces: Full wave solutions and comparison with numerical results, Waves in Random Media 6(1) 25-48 (Jan 1996), 8A180
Two-scale model from the point of view of the small-slope approximation, Waves in Random Media 6(1) 73-83 (Jan 1996), 8A181
Ultrasonic wave scattering from rough, imperfect interfaces - Part I: Stochastic interface models, J Nondestruct Eval 14(3) 109-116 (Sep 1995), 8A182
Ultrasonic wave scattering from rough, imperfect interfaces - Part II: Incoherent and coherent scattered fields, J Nondestruct Eval 14(3) 117-126 (Sep 1995), 8A183
Wave scattering from inhomogeneous anisotropic layers, Acta Mech 114(1-4) 151-165 (1996), 8A184
Elastodynamic analysis of nonplanar cracks in a half-space, Acta Mech 115(1-4) 67-78 (1996), 9A269
Reflection characteristics of longitudinal waves in a semi-infinite cylindrical rod connected to an infinite viscoelastic stratum, Acta Mech Solida Sinica 9(1) 66-80 (1996), 9A270
Scattering of vertically-incident P-waves by an embedded pile, Soil Dyn Earthquake Eng 15(3) 211-222 (1996), 9A271
Surface motion of a cylindrical hill of circular-arc cross-section for incident plane SH waves, Soil Dyn Earthquake Eng 15(3) 189-199 (1996), 9A272
Response of a viscous incompressible fluid cylinder to an incident plane compressional elastic wave, SIAM J Appl Math 56(2) 372-387 (Apr 1996), 9A313
Method of inverface inversion in inhomogeneous media, Acta Mech Sinica 11(4) 337-348 (1995), 10A253
Coordinate-spectral method for rough surface scattering, Waves in Random Media 6(2) 135-150 (Apr 1996), 10A261
Coupled nonlinear system in (2 + 1) dimension and overturning solitons, Acta Phys Polonica A 89(4) 459-466 (Apr 1996), 10T262
Elastic wave scattering by shelled spherical scatterers in a focused field, J Acoust Soc Am 99(5) 2862-2870 (May 1996), 10A263
Integral equations for wave diffraction problems, Z Angew Math Mech 76(3) 145-153 (1996), 10A264
Non-local small-slope approximation for wave scattering from rough surfaces, Waves in Random Media 6(2) 151-167 (Apr 1996), 10A265
Oblique scattering of an elastic wave from a multilayered cylinder in a solid: Transfer matrix approach, J Acoust Soc Am 99(5) 2742-2754 (May 1996), 10A266
Plane inverse problem of elastic wave scattering by a thin-walled inclusion of little rigidity, Mech Solids 30(5) 79-87 (1995), 10A267
Wave scattering by periodic arrays of breakwaters, Wave Motion 23(2) 95-120 (Mar 1996), 10A268
Wave theory of diffraction, Wave Motion 23(2) 165-179 (Mar 1996), 10A269
Coordinate-spectral method for rough surface scattering, Waves in Random Media 6(2) 135-150 (Apr 1996), 11A176
Light transfer problem in turbid media with surface reflectivity, Waves in Random Media 6(2) 101-118 (Apr 1996), 11A177
Non-local small-slope approximation for wave scattering from rough surfaces, Waves in Random Media 6(2) 151-167 (Apr 1996), 11A178
Scattering frequencies and a class of perturbed systems of elastic waves, Math Methods Appl Sci 19(9) 699-716 (Jun 1996), 11A179
Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - I: SH case, Int J Solids Struct 33(19) 2789-2815 (Aug 1996), 11A180
Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - II: P and SV cases, Int J Solids Struct 33(19) 2817-2840 (Aug 1996), 11A181
Theory for the diffraction of SH waves by randomly rough surfaces in 2D, Quart J Mech Appl Math 49(2) 261-286 (May 1996), 11A182
Elastic wave resonance reflection from a thin solid layer in a crystal, Wave Motion 23(4) 363-385 (Jun 1996), 12A226
Explicit analytical results for one-mode oblique penetration into a periodic array of screens, IMA J Appl Math 56(2) 109-120 (Apr 1996), 12A227
Inverse scattering for the homogeneous dispersive anisotropic slab using transient electromagnetic fields, Wave Motion 23(4) 289-306 (Jun 1996), 12A228
Nizhnik-Veselov-Novikov equation: Associated boundary value problems, Int J Non-Linear Mech 31(4) 441-450 (Jul 1996), 12A229
Note on the equivalence of Backlund transformations and the inverse scattering method for a class of nonlinear differential equations, Int J Non-Linear Mech 31(4) 451-457 (Jul 1996), 12A230

158Y. Computational techniques

Implicit time integration of a class of constrained hybrid formulations - Part I: Spectral stability theory, Comput Methods Appl Mech Eng 125(1-4) 71-107 (Sep 1995), 1A210
Properties of various residuals within updating of mathematical models, Inverse Prob Eng 1(4) 329-348 (1995), 1A211
Wavelet analysis of dispersive stress waves, JSME Int J Ser A 38(4) 416-424 (Oct 1995), 3A56
Analysis of wave propagation in elastic-plastic rods of a variable cross section using direct mathematical modeling, Arch Appl Mech 65(8) 537-547 (Oct 1995), 3A179
Energy-conserving reflection and transmission coefficients for a solid-solid boundary, J Acoust Soc Am 98(5) 2836-2840 (Nov 1995), 3A190
One-dimensional layered media - Part 2: Layer-based waveform inversion, Geophys 60(6) 1857-1869 (Dec 1995), 3A191
One-dimensional media - Part 1: 3D elastic modeling, Geophys 60(6) 1843-1856 (Dec 1995), 3A192
Spherical coordinate Green's functions for ring tractions in a solid unbounded medium, J Acoust Soc Am 98(5) 2783-2791 (Nov 1995), 3A193
Elastodynamic inverse scattering method for removing scattered surface waves from field data, Geophys 60(6) 1897-1905 (Dec 1995), 3A1288
Sponge boundary condition for frequency-domain modeling, Geophys 60(6) 1870-1874 (Dec 1995), 3A1295
Numerical source implementation in a 2D finite difference scheme for wave propagation, Bull Seismol Soc Am 85(5) 1507-1512 (Oct 1995), 3A1338
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part I: Formulation, Comput Methods Appl Mech Eng 126(1-2) 67-89 (Sep 1995), 4A247
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part II: Single-processor implementation, Comput Methods Appl Mech Eng 126(1-2) 91-109 (Sep 1995), 4A248
Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part III: Parallel implementation, Comput Methods Appl Mech Eng 126(1-2) 111-129 (Sep 1995), 4A249
Axisymmetric elastodynamic infinite elements for multi-layered half-space, Int J Numer Methods Eng 38(22) 3723-3743 (Nov 1995), 4A250
Computable error bounds for variational functionals of solutions of a convolution integral equations of the first kind, Wave Motion 22(2) 171-185 (Sep 1995), 4A251
Element-free Galerkin method for wave propagation and dynamic fracture, Comput Methods Appl Mech Eng 126(1-2) 131-153 (Sep 1995), 4A252
Frechet differentiability of boundary integral operators in the inverse elastic scattering problem, Inverse Prob 11(6) 1137-1161 (Dec 1995), 4A253
Velocity inversion for acoustic waves with wavelet operator, J Eng Math 29(6) 591-606 (Nov 1995), 4A313
Infinite BE for elastodynamic problems of antiplane motion in an elastic half-space, Commun Numer Methods Eng 11(12) 1005-1013 (Dec 1995), 5A186
Analysis of layered solid-fluid media using a discrete wavenumber and normal-mode superposition method, Bull Seismol Soc Am 85(6) 1718-1729 (Dec 1995), 6A184
Normally incident transverse wave scattering by a plane crack, Mech Solids 30(3) 77-91 (1995), 6A186
Numerical modeling of fault-zone trapped waves: Acoustic case, Bull Seismol Soc Am 85(6) 1711-1717 (Dec 1995), 6A1285
Simple elastic finite-difference scheme, Bull Seismol Soc Am 85(6) 1879-1887 (Dec 1995), 6A1286
Longitudinal vibrations of a beam: A gradient elasticity approach, Mech Res Commun 23(1) 35-40 (Feb 1996), 7T220
Nonstationary waves radiated by a spherical shell in an elastic half-space, Mech Solids 30(4) 66-71 (1995), 7A224
Studies on dual reciprocity BEM for elastodynamic analysis, Comput Mech 17(4) 270-277 (Jan 1996), 7A246
Numerical analysis of the radiated fields of ultrasonic transducers, J Nondestruct Eval 14(3) 137-147 (Sep 1995), 8A698
Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, Acta Mech 115(1-4) 203-211 (1996), 9A253
Boundary element solution for a mode conversion study on the edge reflection of Lamb waves, J Acoust Soc Am 99(4) 2097-2109 (Apr 1996), 9A273
Generalized ray approximate method to inverse medium parameters, Acta Mech Solida Sinica 9(1) 59-65 (1996), 9A274
Incidence-radiation condition of an artificial boundary, Comput Struct 59(4) 743-749 (May 1996), 9A275
Piezoelectric interfacial waves in langasite and dilithium tetraborate, Arch Acoust 21(1) 99-107 (1996), 9A276
Two-dimensional elastodynamic transient analysis by QL time-domain BEM formulation, Int J Numer Methods Eng 39(6) 951-985 (Mar 1996), 9A277
Transition matrix inversion method in a stratified medium (Chinese), J Vib Eng 9(1) 86-91 (Mar 1996), 10A254
Integral equations for wave diffraction problems, Z Angew Math Mech 76(3) 145-153 (1996), 10A264
Application of the Taylor-Galerkin FE and Godunov-type finite difference methods to finite amplitude axisymmetric waves in hyperelastic membranes, J Sound Vib 192(1) 223-244 (Apr 1996), 10A270
Hypersingular BEM for transient elastodynamics, Int J Numer Methods Eng 39(10) 1681-1705 (May 1996), 10A271
Transient wave envelope elements for wave problems, J Sound Vib 192(1) 245-261 (Apr 1996), 10A272
Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77 (SIAM, Phila, PA, 1995) 11N19
Generalized propagation matrix method for seismic wave propagation in inhomogeneous attenuating medium (Chinese), J Comput Struct Mech Appl 13(2) 201-207 (May 1996), 11A172
Dynamically propagating shear bands in impact-loaded prenotched plates - Part II: Numerical simulations, J Mech Phys Solids 44(6) 1007-1032 (Jun 1996), 12A214
Consistent infinitesimal FE cell method: 3D vector wave equation, Int J Numer Methods Eng 39(13) 2189-2208 (Jul 1996), 12A231
Two-dimensional Chebyshev differential operator for the elastic wave equation, Comput Methods Appl Mech Eng 130(1-2) 33-45 (Mar 1996), 12A232
Numerical analysis of 3D thermoelastic stress wave propagation problem, Acta Mech Solida Sinica 9(2) 159-168 (1996), 12A1283

158Z. Experimental techniques

Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, Mat Eval 53(12) 1348-1352 (Dec 1995), 4A776
Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service, Revised Edition (CRC Press, Boca Raton FL, 1996) 5N11
Experimental results on bulk waves and Rayleigh waves in slate, J Acoust Soc Am 99(1) 292-298 (Jan 1996), 6A187
Generating and recording transient bending waves in plates by pulsed lasers, Exp Tech 20(1) 15-19 (Feb 1996), 7T247
Ultrasonic inspection of long steel pipes using Lamb waves, NDT&E Int 29(1) 13-20 (Feb 1996), 8A700
Polygonal deformation of roll-covering rubber, JSME Int J Ser C 39(1) 1-10 (Mar 1996), 9A278
Pulse transmission system for measuring wave propagation in soils, J Geotech Eng 122(4) 302-308 (Apr 1996), 9A279
Shocks detection in a piping system network (French), Rev Francaise Mec 0(1) 13-20 (1996), 11A164
Excitation of Lamb waves in pipes using dry-coupled piezoelectric transducers, J Nondestruct Eval 15(1) 11-20 (Mar 1996), 12A793

160. IMPACT ON SOLIDS

Structures Under Shock and Impact IV - Proc of 4th Int Conf, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 11N17

160A. General theory

Formulation of impulsive response of an elastic layered half space using the eigenmodes given by the characteristic equation (Japanese), Proc JSCE 519(I-32) 149-159 (Jul 1995), 1A212
Problem of the center of percussion, J Appl Math Mech 59(1) 151-153 (1995), 1A213
Collision of rigid bodies, Z Angew Math Phys 46(5) 709-723 (Sep 1995), 2A163
Partitioning the parameter space according to different behaviors during 3D impacts, J Appl Mech 62(3) 740-746 (Sep 1995), 5A187
Shock and Vibration Handbook, Fourth Edition (McGraw-Hill, New York, 1996) 6N8
Determination of dynamic reactions in elastic deformable systems with intermediate supports under impulse loading (Russian), Prikl Mekh (Appl Mech) 31(5) 48-54 (1995), 7A248
Impact dynamics of multibody systems with frictional contact using joint coordinates and canonical equations of motion, Nonlinear Dyn 9(1-2) 53-71 (Feb 1996), 7A249
Constitutive equation for unidirectional composites under tensile impact, Composites Sci Tech 56(2) 155-160 (1996), 9A552
Multiple impact, J Appl Math Mech 59(6) 887-902 (1995), 12A233

160B. Dynamic contact problems

Note on the inertia and strain-rate effects in the Tam and Calladine model, Int J Impact Eng 16(4) 637-649 (Aug 1995), 1A214
Replica model scaling for high strain-rate events, Int J Impact Eng 16(4) 571-583 (Aug 1995), 1A215
Effects of threshold singularities on a dynamical system with intermittent contact and breakage, J Sound Vib 185(4) 609-625 (Aug 1995), 2A82
Penetration of a rigid projectile into an elastic-plastic target of finite thickness, Int J Impact Eng 16(5-6) 801-831 (Dec 1995), 2A164
Perforation of rigid-plastic plate by blunt missle, Int J Impact Eng 16(5-6) 739-758 (Dec 1995), 2A165
Stress state in a moving rod suddenly elastically fixed at its trailing end, Acta Mech 111(3-4) 171-179 (1995), 2A166
Automotive occupant dynamics optimization, Shock Vib 2(6) 471-479 (1995), 3A194
Engineering penetration-perforation model of hemispherical nosed rigid cylindrical rods into strain-hardening targets, Comput Struct 58(1) 51-58 (Jan 1996), 3A195
Low-speed impact damage-initation characteristics of selected laminated composite plates, AIAA J 33(10) 1919-1925 (Oct 1995), 3A196
Computational Methods in Micromechanics, AMD-Vol 212/MD-Vol 62 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N1
Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N14

Dynamics of flexible mechanical systems with contact-impact and plastic deformations, Nonlinear Dyn 9(4) 491-512 (Dec 1995), 4A104

Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, Eur J Mech A 14(6) 1005-1016 (1995), 4A466

Three dimensional rigid-body collisions with multiple contact points, J Appl Mech 62(3) 725-732 (Sep 1995), 5A79

Inverse problem of rectangular plates subjected to elastic impact - Part I: Method development and numerical verification, J Appl Mech 62(3) 692-698 (Sep 1995), 5A188

Inverse problem of rectangular plates subjected to elastic impact - Part II: Experimental verification and further applications, J Appl Mech 62(3) 699-705 (Sep 1995), 5A189

Simulation of the impact behavior of a package with discrete contents, Adv Eng Software 23(3) 129-131 (1995), 5A190

Debris-cloud collision risk analysis: Polar-platform case study, J Spacecraft Rockets 32(5) 905-911 (Oct 1995), 5A247

Dynamic responses of shallow-buried flexible plates subjected to impact loading, J Struct Eng 122(1) 55-60 (Jan 1996), 6A130

Impact deformation of polymeric projectiles, Int J Impact Eng 18(2) 119-127 (Mar 1996), 6A188

Impact loading of plates and shells by free-flying projectiles: A review, Int J Impact Eng 18(2) 141-230 (Mar 1996), 6A189

Nonsteady processes in cylindrical shells under impact loads, Mech Solids 30(3) 169-176 (1995), 6A190

Numerical study of an impact oscillator with the addition of dry friction, J Sound Vib 188(5) 659-683 (Dec 1995), 6A191

Stress and strain analysis of plates subjected to transverse wedge impact, J Strain Anal Eng Des 31(1) 1-7 (Jan 1996), 6A477

Optimal design of structures under impact loading, Shock Vib 3(1) 69-81 (1996), 6A719

Interaction of cylindrical blast waves in viscoplastic medium with immobile obstacle (Russian), Prikl Mekh (Appl Mech) 31(5) 54-61 (1995), 7T230

Analysis of two models of super-deep penetration, Eng Fracture Mech 53(3) 399-423 (Feb 1996), 7A250

Ballistic impact response for two-step braided 3D textile composites, AIAA J 34(2) 375-384 (Feb 1996), 7A251

Concrete penetration by eroding projectiles: Experiments and analysis, J Eng Mech 122(2) 145-152 (Feb 1996), 7A252

Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, JSME Int J Ser A 39(1) 78-85 (Jan 1996), 7A253

Elementary theory of 1D rod penetration using a new estimate for pressure, Int J Impact Eng 18(3) 265-279 (Apr 1996), 7A254

L/D effect for long-rod penetrators, Int J Impact Eng 18(3) 247-264 (Apr 1996), 7A255

Plane problem of the shell impact against elastic half-space (Russian), Prikl Mekh (Appl Mech) 31(6) 78-86 (1995), 7A256

Towards the understanding of material property influence on automotive crash structures, Thin-Walled Struct 24(4) 285-313 (1996), 7A257

Response of impact dampers with granular materials under random excitation, Earthquake Eng Struct Dyn 25(3) 253-267 (Mar 1996), 8A157

Animate simulation for coaxial collision of two bars (Chinese), J Dalian Univ Tech 35(2) 141-144 (Apr 1995), 8A185

Dynamic response of a half-space to radial shear surface loadings, Arch Appl Mech 66(3) 137-148 (Jan 1996), 8A186

Quasifront in the problem of the action of an instantaneous point impulse at the edge of a conical shell, J Appl Math Mech 59(5) 773-780 (1995), 8A187

Thermal and slip mechanism effects in rapid indentation by a flat punch, Acta Mech 114(1-4) 185-201 (1996), 8A188

Damage estimate for plating of ships and platforms under repeated impacts, Marine Struct 9(7) 697-720 (Aug 1996), 9A280

Influence of scale on the penetration of tungsten rods into steel-backed alumina targets, Int J Impact Eng 18(4) 403-416 (Jun 1996), 9A281

Modeling geometrical and dimensional aspects of ballistic penetration of thick metal targets, Int J Impact Eng 18(4) 369-381 (Jun 1996), 9A282

Oblique impact modeling of fuzes, Int J Impact Eng 18(4) 435-457 (Jun 1996), 9A283

Rough balanced collisions, J Appl Mech 63(1) 168-172 (Mar 1996), 9A284

Approximate formulas of impact force for normal impact of a finite elastic beam on elastic foundation by a finite rod, Appl Math Mech 17(1) 45-52 (Jan 1996), 9A571

Estimation of vibration intensity of mechanical systems subjected to disturbances of finite duration, J Machinery Manuf Reliab 6 7-14 (1995), 10A75

Identification of the dynamic properties of yarn used in rib knitting, Fibres Textiles in E Europe 3(4) 29-33 (Dec 1995), 10A207

Engineering approach to impact analysis of notched beams by conventional beam elements, Comput Struct 59(6) 1115-1120 (Jun 1996), 10A273

New analysis method for a thin beam impacting against a stop based on the full continuous model, J Sound Vib 191(5) 809-823 (Apr 1996), 10A274

Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, Shock Vib 3(3) 169-181 (1996), 10A275

Plastic deformation of a rigid floating plate: An analytical study, Appl Math Model 20(5) 352-359 (May 1996), 10A538

Periodic solutions of a multi-dof beam system with impact, J Sound Vib 192(5) 913-925 (May 1996), 11A110

Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, Int J Solids Struct 33(18) 2659-2680 (Jul 1996), 11A183

Impact characteristics of hailstones simulating ingestion by turbofan aeroengines, J Propulsion Power 12(3) 457-462 (Jun 1996), 11A184

Numerical simulation of interaction between the turbine fragment and the engine envelope, Russian Aeronaut 38(3) 42-46 (1995), 11A185

Impact dampers for controling self-excited oscillation, J Sound Vib 193(5) 1003-1014 (Jun 1996), 12A208

Critical study of the applicability of rigid-body collision theory, J Appl Mech 63(2) 307-316 (Jun 1996), 12A234

Dynamic interaction of a plate and an impactor, Comput Struct 60(5) 837-848 (Jul 1996), 12A235

Efficient calculation of the load and coefficient of restitution of impact between two elastic bodies with a liquid lubricant, J Appl Mech 63(2) 347-352 (Jun 1996), 12A236

Rebound of an elastic sphere against a rigid wall, J Appl Mech 63(2) 259-263 (Jun 1996), 12A237

Study of the transient sound radiated by impacted solid bodies based on the BEM, JSME Int J Ser C 39(2) 218-224 (Jun 1996), 12A276

Contact problem of a ball and an elliptic race in the case of a two-point initial touch, J Machinery Manuf Reliab 1 41-44 (1996), 12T960

160C. Explosive loading

Impact of thin-walled projectiles with concrete targets, Shock Vib 2(5) 355-364 (1995), 1A216

Shock evolution after shaped charge jet impact and its relevance to explosive initiation, Int J Impact Eng 16(4) 563-570 (Aug 1995), 1A217

Rigid-pastic analysis of underwater blast loaded stiffened plates, Int J Mech Sci 37(8) 843-859 (Aug 1995), 1A508

Structures Under Extreme Loading Conditions - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N16

Transient interaction of a spherical shell with an underwater explosion shock wave and subsequent pulsating bubble, Shock Vib 2(6) 451-460 (1995), 3A197

Transient deformation modes of square plates subjected to explosive loadings, Int J Solids Struct 33(3) 301-314 (Jan 1996), 4A254

Spall damage to concrete walls from close-in cased and uncased explosions in air, ACI Struct J 92(6) 680-688 (Dec 1995), 5A613

Local damage assessment of metal barriers under turbine missile impacts, J Struct Eng 122(1) 99-108 (Jan 1996), 6A168

Effect of processing on the underwater explosion shock behavior of GRP laminates, J Composite Mat 29(18) 2488-2503 (1995), 6A442

Effect of underwater explosion shock loading on the flexural properties of GRP laminates, Int J Impact Eng 18(2) 129-139 (Mar 1996), 6A443

Constitutive models for concrete penetration analysis, J Eng Mech 122(3) 230-238 (Mar 1996), 8A189

Shear and bending deformation of rigid-plastic circular plates by central pressure pulse, Int J Impact Eng 18(4) 383-402 (Jun 1996), 9A581

Damage response of submerged imperfect cylindrical structures to underwater explosion, Comput Struct 60(5) 683-693 (Jul 1996), 12A238

160E. Hypervelocity

Structures Under Extreme Loading Conditions - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N16

Numerical simulation of shock waves in linear-elastic plates with curvilinear boundaries and material interfaces, Int J Impact Eng 16(5-6) 711-725 (Dec 1995), 2A161

Prediction of force-time histories in thick steel plates due to penetration by tungsten rods at velocities of 1.5-2.5 km s^{-1}, Int J Solids Struct 33(10) 1453-1477 (Apr 1996), 8A190

Penetration of confined aluminum nitride targets by tungsten long rods at 1.5-4.5 km/s, Int J Impact Eng 18(4) 355-368 (Jun 1996), 9A285

Experimental and numerical study of hypersonic forward-facing cavity flow, J Spacecraft Rockets 33(3) 353-359 (Jun 1996), 12A1071

160F. Spallation and fracture

Modeling deformation and damage characteristics of woven fabric under small projectile impact, Int J Impact Eng 16(4) 585-605 (Aug 1995), 1A218

Woven glass-epoxy laminates subject to projectile impact, Int J Impact Eng 16(4) 607-619 (Aug 1995), 1A219

Inelastic energy curves: A tool for evaluating the impact response of composite plates, J Reinforced Plastics Composites 14(11) 1175-1198 (Nov 1995), 4A523

Low velocity impact fatigue studies on glass epoxy composite laminates with varied material and test parameters: Effect of incident energy and fiber volume fraction, J Reinforced Plastics Composites 14(11) 1150-1159 (Nov 1995), 4A524

Deformation and tearing of thin square plates subjected to impulsive loads: An experimental study, Int J Impact Eng 18(1) 99-116 (Jan 1996), 5A445

Behavior of stitched laminates under in-plane tensile and transverse impact loading, J Composite Mat 29(17) 2254-2279 (1995), 6A434

Prediction of the residual strength of laminated composites subjected to impact loading, J Mat Processing Tech 54(1-4) 205-210 (Oct 1995), 6A444

Effect of oxide layers on behaviors of particle impact damage of silicon carbide (Japanese), J Soc Mat Sci Japan 44(507) 1439-1444 (Dec 1995), 7A258

Effect of through-thickness cracks on the ballistic performance of ceramic armour systems, Int J Impact Eng 18(3) 309-318 (Apr 1996), 7A259

Energy and momentum changes during ballistic perforation, Int J Impact Eng 18(3) 319-337 (Apr 1996), 7A260

Impact loading on fiber metal laminates, Int J Impact Eng 18(3) 291-307 (Apr 1996), 7A261

Simple model to predict residual velocities of thick composite laminates subjected to high-velocity impact, Int J Impact Eng 18(3) 339-353 (Apr 1996), 7A578

Characterization of low-energy impact damages in composites, J Reinforced Plastics Composites 15(3) 267-282 (Mar 1996), 9A286

Ballistic performance of high-strength low-alloy steel weldments, J Mat Processing Tech 57(1-2) 23-30 (Feb 1996), 10A276

Low-velocity perforation of punch-impact-loaded metal plates, J Pressure Vessel Tech 118(2) 181-187 (May 1996), 10A277

Notch sensitivity of circular rings subjected to impact loading, Int J Pressure Vessels Piping 67(3) 257-261 (1996), 10A278

Optimization of two-component plates against ballistic impact, J Mat Processing Tech 57(1-2) 141-145 (Feb 1996), 10A279

Penetration erosion phenomenology, Int J Impact Eng 18(5) 565-578 (Jul 1996), 10A280

Penetration of grout and concrete targets with ogive-nose steel projectiles, Int J Impact Eng 18(5) 465-476 (Jul 1996), 10A281

Low velocity impact damage in filament-wound composite pressure bottles, J Composite Tech Res 18(2) 109-117 (Apr 1996), 11A186

Ballistic impact of fiber composite armours by fragment-simulating projectiles, Composites Part A Appl Sci and Manuf 27A(7) 575-581 (1996), 12A570

Large-scale grounding experiments and numerical simulations, Ship Tech Res 43(2) 62-69 (May 1996), 12A858

160Y. Computational techniques

Computational methods for studying impact in multibody systems, Comput Struct 57(3) 421-425 (Nov 1995), 1A220

Finite element analysis on collision between two moving elastic bodies at low velocities, Comput Struct 57(3) 379-382 (Nov 1995), 1A221

Penetration into ductile metal targets with rigid spherical-nose rods, Int J Impact Eng 16(5-6) 699-710 (Dec 1995), 2A167

Perturbation method used for static contact and low velocity impact, Int J Impact Eng 16(5-6) 759-775 (Dec 1995), 2A168

Simulation of dynamic fracture of an impact-loaded brittle solid: Microcracked and polycrystalline solids, Model Simulation Mat Sci Eng 3(5) 665-688 (Sep 1995), 2A169

Soft missile impact on rigid targets, Int J Impact Eng 16(5-6) 727-737 (Dec 1995), 2A170

Simple method for first dynamic mode of plastic deformation for suddenly loaded beams, Int J Impact Eng 16(5-6) 833-840 (Dec 1995), 2A407

Analytical model for tumbling projectile perforation of thin aluminum plates, Int J Impact Eng 18(1) 45-63 (Jan 1996), 5A191

Development of new spatially curved frame FE for crash analysis - Part I: Formulation and validation, Comput Mech 16(6) 426-436 (Nov 1995), 5A192

Dynamic sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, Comput Methods Appl Mech Eng 128(1-2) 169-190 (Dec 1995), 5A193

Impact force identification from wave propagation responses, Int J Impact Eng 18(1) 65-77 (Jan 1996), 5A194

Impact force location in frame structures, Int J Impact Eng 18(1) 79-97 (Jan 1996), 5A195

Towards the understanding of material property influence on automotive crash structures, Thin-Walled Struct 24(4) 285-313 (1996), 7A257

Collisions of pseudo-rigid bodies: A Brach-type treatment, Int J Eng Sci 34(3) 249-256 (Feb 1996), 7A262

Robust explicit computational developments and solution strategies for impact problems involving friction, Int J Numer Methods Eng 39(5) 721-739 (Mar 1996), 8A191

Automated analysis of topside platform hatch covers subject to drill collar impact, Comput Struct 59(4) 665-689 (May 1996), 9A287

Efficient method for elastic-plastic analysis of destructive structures, Comput Struct 59(5) 911-914 (Jun 1996), 9A512

Impact on planar kinematic chain of rigid bodies: Application to movements of anthropomorphic dummy in a crash, Int J Impact Eng 18(5) 505-516 (Jul 1996), 10A82

Artificial viscosity effects for SPH impact computations, Int J Impact Eng 18(5) 477-488 (Jul 1996), 10A282

Data-based models for automobile side impact analysis and design evaluation, Int J Impact Eng 18(5) 517-537 (Jul 1996), 10A283

160Z. Experimental techniques

Optical fiber sensing technique for impact detection and location in composites and metal specimens, Smart Mat Struct 4(2) 93-99 (Jun 1995), 1A222

Laser generation of ultrahigh pressures, J Tech Phys 36(2) 173-180 (1995), 3A198

Identification of residual impact properties of materials by Acousto-ultrasonics: A Pattern Recognition approach, Acta Mech Sinica 11(1) 34-43 (1995), 3A735

Fiber optic method for detection of impact induced damage in composite laminates (Japanese), J Soc Mat Sci Japan 44(504) 1196-1200 (Sep 1995), 3A742

Impact on aluminum plates by tumbling projectiles: Experimental study, Int J Impact Eng 18(1) 23-43 (Jan 1996), 5A196

Scale model experiments with ceramic laminate targets, Int J Impact Eng 18(1) 1-22 (Jan 1996), 5A197

Identification of impact force and location using distributed sensors, AIAA J 34(1) 136-142 (Jan 1996), 6A192

Similitude experiments on projectile-induced fracture of monolithic glass, Int J Impact Eng 18(4) 417-424 (Jun 1996), 9A288

Acousto-ultrasonics approach to the characterization of impact properties of a class of engineering materials, Int J Pressure Vessels Piping 67(3) 307-315 (1996), 10A284

New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, J Theor Appl Mech 34(2) 259-280 (1996), 10A846

162. WAVES IN INCOMPRESSIBLE FLUIDS

162A. General theory

Large-time existence of surface waves in incompressible viscous fluids with or without surface tension, Arch Rational Mech Anal 130(4) 303-314 (1995), 1T223

Nonlinear evolution equations for 2D surface waves in a fluid of finite depth, J Fluid Mech 295 381-394 (Jul 1995), 1T224

Transient development of axisymmetric surface waves, Meccanica 30(3) 261-269 (Jun 1995), 1A225

Verification of the Benjamin-Lighthill conjecture about steady water waves, J Fluid Mech 295 337-356 (Jul 1995), 1A235

Resonance phenomena under nonlinear oscillations of two-layered liquid (Russian), Prikl Mekh (Appl Mech) 30(10) 79-84 (1994), 3A199

Spiral coordinates with application to wave propagation, J Fluid Mech 301 153-173 (Oct 1995), 4A255

Evolution equations for nonlinear waves in a three-layer fluid model, J Hydrodyn 7(3) 94-103 (1995), 4A257
Parasitic capillary waves: A direct calculation, J Fluid Mech 301 79-107 (Oct 1995), 4A270
Velocity circulations in free-surface flows, Int J Eng Sci 34(3) 359-361 (Feb 1996), 7A263
Global relationships between 2D water wave potentials, J Fluid Mech 312 299-309 (Apr 1996), 10A291
Capillary-gravity waves over a flat surface, Eur J Mech B 15(2) 259-280 (1996), 10A292
Example of non-uniqueness in the 2D linear water wave problem, J Fluid Mech 315 257-266 (May 1996), 11A193
Internal flow properties of the swash zone and averaging, J Fluid Mech 317 241-273 (Jun 1996), 12A239
Asymptotic theory for the almost-highest solitary wave, J Fluid Mech 317 1-19 (Jun 1996), 12A240

162C. Nonlinear, finite amplitude, and solitary waves

Possible route to chaos for the Korteweg-deVries equation, J Hydrodyn 7(2) 17-22 (1995), 1T100
Nonlinear evolution equations for 2D surface waves in a fluid of finite depth, J Fluid Mech 295 381-394 (Jul 1995), 1T224
Analytical and experimental study of the oblique passing of a solitary wave over a shelf in a two-layer fluid, Fluid Dyn Res 16(4) 217-235 (Sep 1995), 1A226
Ion-acoustic multisoliton in plasma with ion beams, Physica D 85(3) 445-453 (Aug 1995), 1A227
Similarity solutions of dispersive long-wave equations in two space dimensions, Math Methods Appl Sci 18(10) 789-802 (Aug 1995), 1A228
Waves Called Solitons: Concepts and Experiments (Springer, New York, 1994) 2R12
Solitary waves and homoclinic orbits, Annu Rev Fluid Mech 27 335-373 (1995), 2A171
Drift velocity of spatially decaying waves in a two-layer viscous system, J Fluid Mech 299 217-239 (Sep 1995), 2A173
General solution for interaction of solitary waves including head-on collisions, Acta Mech Sinica 11(3) 193-199 (1995), 3A200
Solitary waves on 2D slab conduits of buoyant fluid in a more viscous fluid, Geophys Astrophys Fluid Dyn 79(1-4) 223-238 (Aug 1995), 3A201
Water Waves: Relating Modern Theory to Advanced Engineering Practice - Institute of Math and Its Applications Monograph Series (Oxford UP, New York, 1994) 4R5
Accuracy of the stationary forced Korteweg-de Vries equation as a model equation for flows over a bump, Quart Appl Math 53(4) 701-719 (Dec 1995), 4A256
Evolution equations for nonlinear waves in a three-layer fluid model, J Hydrodyn 7(3) 94-103 (1995), 4A257
Modulation of nonlinear periodic wavetrains by dissipative terms in the Korteweg-de Vries equation, Wave Motion 22(2) 215-238 (Sep 1995), 4A258
New families of steep solitary waves in water of finite depth with constant vorticity, Eur J Mech B 14(6) 761-774 (1995), 4A259
Rotational effects in the modulations of weakly nonlinear water waves over finite depth, Eur J Mech B 14(6) 775-793 (1995), 4A260
Runup of solitary waves on a circular island, J Fluid Mech 302 259-285 (Nov 1995), 4A261
Nonlinear excitation of synchronous edge waves by a monochromatic wave normally approaching a plane beach, J Fluid Mech 301 251-268 (Oct 1995), 4A265
Two approaches to the problem of instability of short-crested water waves, J Fluid Mech 303 297-326 (Nov 1995), 4A268
Inverse scattering transform analysis of KdV-Burgers' equation, Int J Non-Linear Mech 30(5) 617-627 (Sep 1995), 5A198
Propagation of an envelope Rossby soliton over topography, Dyn Atmos Oceans 22(4) 199-211 (Dec 1995), 5A199
Collision dynamics of fronts in the Korteweg-de Vries-Burgers equation, Physica D 89(1-2) 15-27 (Dec 1995), 6A193
Deep-water internal solitary waves, J Fluid Mech 305 347-371 (Dec 1995), 6A194
Role of surface-wave breaking in air-sea interaction, Annu Rev Fluid Mech 28 279-321 (1996), 6A195
Nonlinear Wave Equations - Pure and Applied Mathematics Series, Vol 194 (Marcel Dekker, New York, 1996) 7R6
Global attractors for the periodic initial value problem for a coupled nonlinear wave equation, Math Methods Appl Sci 19(2) 131-144 (Jan 1996), 7A264
Hamiltonian structure and 2D nonlinear waves in shallow water (Chinese), J Dalian Univ Tech 35(6) 800-804 (1995), 7A265
Blocking as a wave-wave interaction, Tellus 48A(2) 254-271 (Mar 1996), 8T192
Instability of oscillatory shock profile solutions of the generalized Burgers-KdV equation, Physica D 90(4) 366-386 (Feb 1996), 8A193
Markov description of wave-crest statistics, J Offshore Mech Arctic Eng 118(1) 37-45 (Feb 1996), 8A194
Numerical computations of a nearly-singular nonlinear equation: Weakly nonlocal bound states of solitons for the fifth-order Korteweg-deVries equation, J Comput Phys 124(1) 55-70 (Mar 1996), 8A195
Numerical study of capillary-gravity solitary waves, Eur J Mech B 15(1) 17-36 (1996), 8A196
Solitary waves in bubbly liquids are linearly unstable, Eur J Mech B 15(1) 37-53 (1996), 8A197
Finite-amplitude effects on steady lee-wave patterns in subcritical stratified flow over topography, J Fluid Mech 308 147-170 (Feb 1996), 8A204
Approximate description of Stokes' type waves generated in fluid of constant depth, Arch Hydro-Eng Env Mech 52(1-2) 69-83 (1995), 9A289
Coupled nonlinear system in (2 + 1) dimension and overturning solitons, Acta Phys Polonica A 89(4) 459-466 (Apr 1996), 10T262
Analyticity of solitary-wave solutions of model equations for long waves, SIAM J Math Anal 27(3) 725-737 (May 1996), 10A285
Bidirectional soliton street, Acta Mech Sinica 11(4) 289-306 (1995), 10A286
Existence and uniqueness of a solution to the Cauchy problem for the damped Boussinesq equation, Math Methods Appl Sci 19(8) 639-649 (May 1996), 10A287
Internal solitary waves moving over the low slopes of topographies, Fluid Dyn Res 17(6) 329-349 (May 1996), 10A288
KdV soliton formation and discrete spectral analysis, Wave Motion 23(1) 49-66 (Feb 1996), 10A289
Unidirectional waves over slowly-varying bottom - Part II: Quasi-homogeneous approximation of distorting waves, Wave Motion 23(1) 23-38 (Feb 1996), 10A290
Decay of soliton in small blood artery, J Phys Soc Japan 65(4) 945-947 (Apr 1996), 10A1479
Eigenfunction spectrum analysis for self-organization in dissipative solitons, J Phys Soc Japan 65(5) 1264-1269 (May 1996), 11A187
Lie symmetries and invariant solutions of the shallow-water equation, Int J Non-Linear Mech 31(3) 339-344 (May 1996), 11A188
Limits to extensions of Burgers' equation, Quart Appl Math 54(2) 385-393 (Jun 1996), 11A189
Nonlinear phenomena induced by finite-amplitude oscillation of air column in a closed duct: Analysis of acoustic streaming, JSME Int J Ser B 39(2) 280-286 (May 1996), 11A190
Sonic shocks governed by the modified Burgers' equation, European J Appl Math 7(2) 201-222 (Apr 1996), 11A191
Comparison of numerical predictions and experimental measurements of the internal kinematics of a deep-water plunging wave, J Fluid Mech 315 51-64 (May 1996), 11A192
Weakly nonlinear internal waves in a two-fluid system, J Fluid Mech 313 83-103 (Apr 1996), 11A202
Asymptotic theory for the almost-highest solitary wave, J Fluid Mech 317 1-19 (Jun 1996), 12A240
Evolution and interaction of Marangoni-Benard solitary waves, Wave Motion 23(4) 307-320 (Jun 1996), 12A241
Extreme waves in shallow and intermediate water depths, Coastal Eng 27(1-2) 21-46 (May 1996), 12T242
Soliton interaction for the extended Korteweg-de Vries equation, IMA J Appl Math 56(2) 157-176 (Apr 1996), 12A243
Wave energy transformation on natural profiles, Coastal Eng 27(1-2) 1-20 (May 1996), 12A249

162D. Gravity waves (incl breaking, etc)

Potential Flow of Fluids - Advances in Fluid Mechanics Series, vol 6 (Comput Mech, Billerica MA, 1995) 1N32
Computations of steep gravity waves by a refinement of Davies-Tulin's approximation, SIAM J Appl Math 55(4) 892-903 (Aug 1995), 1A229
Frequency down-shift of swash oscillations compared to incident waves, J Hydraul Res 33(3) 397-411 (1995), 1A230
Hybrid method for the simulation of wave spectrum transformation and breaking phenomena on a slope, J Hydrodyn 7(2) 76-83 (1995), 1A231
Impulse response function for water waves generated in fluid of constant depth, J Theor Appl Mech 33(3) 577-589 (1995), 1A232
Localization length of randomly scattered water waves, J Fluid Mech 296 353-372 (Aug 1995), 1A233
Note on modulated cross-waves, J Fluid Mech 295 301-304 (Jul 1995), 1A234
Verification of the Benjamin-Lighthill conjecture about steady water waves, J Fluid Mech 295 337-356 (Jul 1995), 1A235
Control time for gravity- capillary waves on water, SIAM J Control Optim 33(5) 1577-1586 (Sep 1995), 2A172
Drift velocity of spatially decaying waves in a two-layer viscous system, J Fluid Mech 299 217-239 (Sep 1995), 2A173
Edge waves along periodic coastlines - Part 2, J Fluid Mech 297 307-325 (Aug 1995), 2A174
Kinematics of short waves in the presence of surface flows of larger scales, J Fluid Mech 298 249-269 (Sep 1995), 2A175
Magnitude and cross-shore distribution of bed return flow measured on natural beaches, Coastal Eng 25(3-4) 165-190 (Jul 1995), 2T176
Ocean waves and sea ice, Annu Rev Fluid Mech 27 115-168 (1995), 2A177
Slopes of small-scale wind waves and their relation to mass transfer rates, Exp Fluids 19(4) 280-292 (Aug 1995), 2A178
Vertical distribution of <uw>, Coastal Eng 25(3-4) 137-152 (Jul 1995), 2A179
Analysis of unsteady wave processes in a rotating channel, Int J Numer Methods Fluids 21(6) 467-488 (Sep 1995), 2A182
Numerical study of the wave-induced solute transport above a rippled bed, J Fluid Mech 299 267-288 (Sep 1995), 2A860
Field observation of water surface oscillation in a pool-weir fishway (Japanese), Proc JSCE 521(II-32) 207-215 (Aug 1995), 3A202
Water Waves: Relating Modern Theory to Advanced Engineering Practice - Institute of Math and Its Applications Monograph Series (Oxford UP, New York, 1994) 4R5
Rotational effects in the modulations of weakly nonlinear water waves over finite depth, Eur J Mech B 14(6) 775-793 (1995), 4A260
Bifurcation of steady gravity water waves in (R,S) parameter space, J Fluid Mech 302 287-305 (Nov 1995), 4A262
Evolution of a quasi-steady breaking wave, J Fluid Mech 302 29-44 (Nov 1995), 4A263
Langmuir circulations when the Stokes drift has a cross-wind component, Eur J Mech B 14(5) 523-555 (1995), 4A264
Nonlinear excitation of synchronous edge waves by a monochromatic wave normally approaching a plane beach, J Fluid Mech 301 251-268 (Oct 1995), 4A265
Reconsideration of oblique shock wave reflections in steady flows - Part 1: Experimental investigation, J Fluid Mech 301 19-35 (Oct 1995), 4A266
Resonant free surface waves in a rectangular basin, Wave Motion 22(2) 187-199 (Sep 1995), 4A267
Two approaches to the problem of instability of short-crested water waves, J Fluid Mech 303 297-326 (Nov 1995), 4A268
Water waves in a deep square basin, J Fluid Mech 302 65-90 (Nov 1995), 4A269
Extensions of the mild-slope equation, J Fluid Mech 300 367-382 (Oct 1995), 4A273
Third-harmonic wave diffraction by a vertical cylinder, J Fluid Mech 302 203-229 (Nov 1995), 4A274
Superious numerical refraction, Int J Numer Methods Fluids 21(11) 1049-1066 (Dec 1995), 4A278
Decomposition of free-surface effects into wave and near-field components, Ship Tech Res 42(4) 167-185 (Oct 1995), 5A200
Effect of surfactants on the wave growth and transition to slug flow, J Fluids Eng 117(3) 389-393 (Sep 1995), 5A201
Experimental study of wave-induced flow in a porous structure, Coastal Eng 26(1-2) 77-98 (Sep 1995), 5T202
Parametrization of orbital velocity asymmetries of shoaling and breaking waves using bispectral analysis, Coastal Eng 26(1-2) 15-33 (Sep 1995), 5T203
Subgrid modeling of moveable-bed bottom friction in wind wave models, Coastal Eng 26(1-2) 57-75 (Sep 1995), 5A204
Two-dimensional Weibull distribution and its application to rolling, J Offshore Mech Arctic Eng 117(3) 178-182 (Aug 1995), 5A205
Interaction of transient waves with a circular surface-piercing body, J Fluids Eng 117(3) 382-388 (Sep 1995), 5A221
Loading on a vertical cylinder in multidirectional waves, J Offshore Mech Arctic Eng 117(3) 151-158 (Aug 1995), 5A871
Role of surface-wave breaking in air-sea interaction, Annu Rev Fluid Mech 28 279-321 (1996), 6A195
Scattering by a periodic array of rectangular blocks, J Fluid Mech 305 263-279 (Dec 1995), 6A196
Interaction of waves with horizonal cylinders in two-layer fluids, J Fluid Mech 304 213-229 (Dec 1995), 6A215
Hydrodynamic design of moored floating platforms, Marine Struct 9(5) 545-575 (1996), 6A1010
Active cancellation of ship waves, Exp Fluids 20(3) 225-226 (Jan 1996), 7T266
Increase of current bottom shear stress due to waves, Coastal Eng 26(3-4) 291-295 (Dec 1995), 7A267
Triple annual maximum series in wave climate analyses, Coastal Eng 26(3-4) 135-151 (Dec 1995), 7T268
Wave reflection from perforated-wall caisson breakwaters, Coastal Eng 26(3-4) 177-193 (Dec 1995), 7T271
Breaking waves and wave-current interaction in shallow water: A 2DH FE model, Int J Numer Methods Fluids 22(5) 429-444 (Mar 1996), 8A198
Changes to wave parameters in the surf zone due to wind effects (French), J Hydraul Res 34(1) 55-76 (1996), 8A199
Dispersion relation at large frequencies for linear surface gravity waves on a Maxwell fluid-exhibiting a spatial decay, Z Angew Math Phys 47(1) 162-167 (Jan 1996), 8A200
Evolution equations and stability results for finite-depth Wilton ripples, Int J Non-Linear Mech 31(1) 41-57 (Jan 1996), 8A201
Linear dynamics of wind waves in coupled turbulent air-water flow - Part 2: Numerical model, J Fluid Mech 308 219-254 (Feb 1996), 8A202
Boundary conditions in shallow water models: An alternative implementation for FE codes, Int J Numer Methods Fluids 22(7) 603-618 (Apr 1996), 9A39
Time dependence of the wave resistance of a body accelerating from rest, J Fluid Mech 310 337-363 (Mar 1996), 9A290
Global relationships between 2D water wave potentials, J Fluid Mech 312 299-309 (Apr 1996), 10A291
Lie symmetries and invariant solutions of the shallow-water equation, Int J Non-Linear Mech 31(3) 339-344 (May 1996), 11A188
Comparison of numerical predictions and experimental measurements of the internal kinematics of a deep-water plunging wave, J Fluid Mech 315 51-64 (May 1996), 11A192
Example of non-uniqueness in the 2D linear water wave problem, J Fluid Mech 315 257-266 (May 1996), 11A193
Interface waves due to a vertical cylindrical wave-maker in the presence of interfacial tension, Mec Appl 39(6) 659-665 (Dec 1994), 11A194
Long time evolution of standing gravity waves in deep water, Wave Motion 23(3) 279-287 (May 1996), 11A195
Mass transport under sea waves propagating over a rippled bed, J Fluid Mech 314 247-265 (May 1996), 11A196
Suppression of short waves by a train of long waves, J Fluid Mech 315 139-150 (May 1996), 11A197
Second-order horizontal steady forces and moment on a floating body with small forward speed, J Fluid Mech 313 39-54 (Apr 1996), 11A217
Observations of the high-frequency range of the wave spectrum, J Offshore Mech Arctic Eng 118(2) 89-95 (May 1996), 11A1415
Internal flow properties of the swash zone and averaging, J Fluid Mech 317 241-273 (Jun 1996), 12A239
Extreme waves in shallow and intermediate water depths, Coastal Eng 27(1-2) 21-46 (May 1996), 12T242
Algorithm for calculating water surface elevations from surface gradient image data, Exp Fluids 21(1) 43-48 (May 1996), 12T244
Derivation of a thin film equation by a direct approach, J Appl Mech 63(2) 467-473 (Jun 1996), 12A245
Forced capillary-gravity waves in a circular cylinder, Wave Motion 23(4) 387-391 (Jun 1996), 12A246
Influence of a layer of mud on the train of waves generated by a moving pressure distribution, J Eng Math 30(3) 387-400 (May 1996), 12A247
Oblique wind waves generated by the instability of wind blowing over water, J Fluid Mech 316 163-172 (Jun 1996), 12A248
Wave energy transformation on natural profiles, Coastal Eng 27(1-2) 1-20 (May 1996), 12A249
Boundary-layer flow around a submerged circular cylinder induced by free-surface traveling waves, J Fluid Mech 316 241-257 (Jun 1996), 12A1108

162F. Capillary waves and waves in thin films

Control time for gravity- capillary waves on water, SIAM J Control Optim 33(5) 1577-1586 (Sep 1995), 2A172
Sur les petites oscillations d'une goutte de liquide catenoidale entre deux plaques parallele en apesantour (French), Z Angew Math Phys 46(5) 724-738 (Sep 1995), 2A180
Stability of parametric resonances of nonlinear surface waves propagating between two superposed electrified fluids, IMA J Appl Math 55(2) 97-116 (1995), 3A203
Reconsideration of oblique shock wave reflections in steady flows - Part 1: Experimental investigation, J Fluid Mech 301 19-35 (Oct 1995), 4A266
Parasitic capillary waves: A direct calculation, J Fluid Mech 301 79-107 (Oct 1995), 4A270
Vortical structure of parasitic capillary waves, J Fluids Eng 117(3) 355-361 (Sep 1995), 5A206

Center-unstable manifold theorem for parametrically excited surface waves, SIAM J Math Anal 27(1) 241-257 (Jan 1996), 7A269
Development of vibrating rod machine for measuring Young's modulus of thin films (Japanese), J Soc Mat Sci Japan 44(507) 1456-1463 (Dec 1995), 7A895
Numerical study of capillary-gravity solitary waves, Eur J Mech B 15(1) 17-36 (1996), 8A196
Permanent capillar-heavy waves in circular shaped channels, Commun Numer Methods Eng 12(3) 175-180 (Mar 1996), 9A291
Capillary-gravity waves over a flat surface, Eur J Mech B 15(2) 259-280 (1996), 10A292
Thin film rupture, Appl Math letters 9(3) 35-40 (May 1996), 10A293
Pitching response of an anchored viscous liquid bridge to bottom and/or top disc excitation, Z Angew Math Mech 76(3) 127-143 (1996), 10A1079

162H. Reflection, refraction, diffraction, and scattering

Localization length of randomly scattered water waves, J Fluid Mech 296 353-372 (Aug 1995), 1A233
Eigenray tracing in an ocean using Fermat's principle, J Sound Vib 186(2) 231-243 (Sep 1995), 2A181
Scattering of a scalar wave from a 2D randomly rough Neumann surface, Waves in Random Media 5(4) 381-411 (Oct 1995), 3A188
Tilt-invariant theory of rough-surface scattering: I, Waves in Random Media 5(4) 361-380 (Oct 1995), 3A189
Physically motivated model for sea surface backscattering in the low to moderate frequency regime, Acoust Lett 18(8) 138-141 (Feb 1995), 3A204
Decomposition methods for wave scattering by topography with application to ripple beds, Wave Motion 22(2) 201-214 (Sep 1995), 4A271
Elastic-plastic water hammer analysis in piping systems, Wave Motion 22(3) 279-295 (Nov 1995), 4A272
Extensions of the mild-slope equation, J Fluid Mech 300 367-382 (Oct 1995), 4A273
Third-harmonic wave diffraction by a vertical cylinder, J Fluid Mech 302 203-229 (Nov 1995), 4A274
Starting point of curvature for reflected diffracted shock wave, AIAA J 33(11) 2230-2231 (Nov 1995), 4T283
Interface wave diffraction by a thin vertical barrier submerged in the lower fluid, Appl Ocean Res 17(2) 93-102 (1995), 5A207
Scattering by a periodic array of rectangular blocks, J Fluid Mech 305 263-279 (Dec 1995), 6A196
Slow drift damping force acting on a cylinder in waves, J Hydrodyn 7(4) 82-95 (1995), 6T217
Wave equation over permeable rippled bed and analysis of Bragg scattering of surface gravity waves, J Hydraul Res 33(6) 789-812 (1995), 7A270
Wave reflection from perforated-wall caisson breakwaters, Coastal Eng 26(3-4) 177-193 (Dec 1995), 7T271
Observation of nonlinear scattering of acoustical waves at sea sediments, Acoust Lett 18(11) 198-203 (May 1995), 7A341
Changes to wave parameters in the surf zone due to wind effects (French), J Hydraul Res 34(1) 55-76 (1996), 8A199
Fourier representation of near-field free-surface flows, Ship Tech Res 43(1) 19-37 (Feb 1996), 8A1005
Time dependence of the wave resistance of a body accelerating from rest, J Fluid Mech 310 337-363 (Mar 1996), 9A290
Capturing shock reflections: An improved flux formula, J Comput Phys 125(1) 42-58 (Apr 1996), 9T292
Filling flows, cliff erosion, and cleaning flows, J Fluid Mech 310 365-374 (Mar 1996), 9A293
Type of floating breakwater for lowering long-crested wave transmissivity for deep water applications (Chinese), J Dalian Univ Tech 36(2) 246-247 (Mar 1996), 9A1049
Wave theory of diffraction, Wave Motion 23(2) 165-179 (Mar 1996), 10A269
Internal solitary waves moving over the low slopes of topographies, Fluid Dyn Res 17(6) 329-349 (May 1996), 10A288
Diffraction of waterwaves on a horizontal cylinder (German), Z Angew Math Mech 76(3) 167-174 (1996), 10A294
Light transfer problem in turbid media with surface reflectivity, Waves in Random Media 6(2) 101-118 (Apr 1996), 10A295
Numerical modeling of wave breaking induced by fixed or moving boundaries, Comput Mech 17(6) 374-391 (Apr 1996), 10A296
Stochastic inverse method for ocean acoustic tomography studies: A simulation experiment, Acoust Lett 19(1) 15-19 (Jul 1995), 10A382
Reflection of water waves by a nearly vertical porous wall, J Austral Math Soc B 37(3) 417-429 (Jan 1996), 11A198
Scattering of water waves by a vertical wall with gaps, J Austral Math Soc B 37(4) 512-529 (Apr 1996), 11A199
Scattering of long waves around a circular island mounted on a conical shoal, Wave Motion 23(4) 353-362 (Jun 1996), 12A250

162J. Pipes, ducts, channels (incl water hammer and surging, etc)

Effects of initial deformation in thin tubes on wave reflection and transmission at mechanical mismatch, J Sound Vib 188(4) 461-478 (Dec 1995), 6A197
Transfer functions and dynamic frequency characteristics of a hydraulic piping of hydrostatic transmissions, J Czech Slovak Mech Eng 3(2) 156-164 (Jun 1993), 6A198
Semi-analytic method for hydraulic computation of surge chambers (Chinese), J Dalian Univ Tech 35(4) 532-535 (Aug 1995), 8A203
Filling flows, cliff erosion, and cleaning flows, J Fluid Mech 310 365-374 (Mar 1996), 9A293
Energy distribution for waves in transcritical flows over a bump, Wave Motion 23(1) 39-48 (Feb 1996), 10A297
Combinod distributed and lumped parameters model for transient flow analysis in complex pipe networks, Comput Methods Appl Mech Eng 130(1-2) 47-56 (Mar 1996), 12A251

162K. Rotating flows

Analysis of unsteady wave processes in a rotating channel, Int J Numer Methods Fluids 21(6) 467-488 (Sep 1995), 2A182
Evolution of near-inertial waves, J Fluid Mech 301 269-294 (Oct 1995), 4A275
Inertial wave dynamics in a rotating and precessing cylinder, J Fluid Mech 303 233-252 (Nov 1995), 4A958
Blocking as a wave-wave interaction, Tellus 48A(2) 254-271 (Mar 1996), 8T192
Nonlinear behavior of contained inertia waves, J Fluid Mech 315 151-173 (May 1996), 11A200
Internal waves, turbulence, and mixing in stratified flows: A report on Euromech Colloquium 339, J Fluid Mech 314 349-371 (May 1996), 11A995

162L. Stratified flows and internal waves

Spatial bifurcations of interfacial waves when the phase and group velocities are nearly equal, J Fluid Mech 295 121-158 (Jul 1995), 1A105
Two-dimensional secondary instabilities in a strongly stratified shear layer, J Fluid Mech 296 73-126 (Aug 1995), 1A1072
Ocean Acoustic Tomography - Monographs on Mechanics Series (Cambridge UP, UK, 1995) 2R52
Mass transport of interfacial waves in a two-layer fluid system, J Fluid Mech 297 231-254 (Aug 1995), 2A183
Evolution of near-inertial waves, J Fluid Mech 301 269-294 (Oct 1995), 4A275
Experimental study of interfacial long waves in a two-layer shear flow, J Fluid Mech 303 23-53 (Nov 1995), 4A276
Geometric focusing of internal waves, J Fluid Mech 300 1-41 (Oct 1995), 4A277
Atmospheric lee waves, Annu Rev Fluid Mech 28 429-476 (1996), 6A934
Reflection of beams of internal gravity waves at a flat rigid surface, J Appl Math Mech 59(4) 579-585 (1995), 7A272
Vortices and internal waves in a stratified fluid, J Appl Math Mech 59(4) 571-577 (1995), 7A273
Blocking as a wave-wave interaction, Tellus 48A(2) 254-271 (Mar 1996), 8T192
Finite-amplitude effects on steady lee-wave patterns in subcritical stratified flow over topography, J Fluid Mech 308 147-170 (Feb 1996), 8A204
Internal waves from a body accelerating in a thermocline, Appl Sci Res 55(2) 171-186 (Sep 1995), 8A205
Generation of internal waves beneath sea ice by a moving load, Cold Regions Sci Tech 24(1) 29-39 (Jan 1996), 8A1401
Trapping of waves by horizontal cylinders in a channel containing two-layer fluid, Arch Mech 47(6) 1183-1187 (1995), 9A294
Bragg resonances in a two-layer fluid, J Austral Math Soc B 37(3) 334-345 (Jan 1996), 11A201
Weakly nonlinear internal waves in a two-fluid system, J Fluid Mech 313 83-103 (Apr 1996), 11A202

162Y. Computational techniques

Numerical simulation of nonlinear schrodinger systems: A new conservative scheme, Appl Math Comput 71(2-3) 165-177 (Sep 1995), 1A236
Numerical study of a Fourier approximation method for nonlinear gravity waves, Adv Eng Software 22(2) 127-133 (1995), 1A237
Adaptive discrete-velocity model for the shallow water equations, J Comput Phys 121(2) 271-280 (Oct 1995), 2T184
Parallel block preconditioning techniques for the numerical simulation of the shallow water flow using FEMs, J Comput Phys 122(1) 39-50 (Nov 1995), 3A22
Wave predictions based on scatter diagram data: A review, Adv Eng Software 23(1) 37-47 (1995), 3A205
Wave predictions based on scatter diagram data: A computer program package, Adv Eng Software 23(1) 49-59 (1995), 3A206
Superious numerical refraction, Int J Numer Methods Fluids 21(11) 1049-1066 (Dec 1995), 4A278
Vortical structure of parasitic capillary waves, J Fluids Eng 117(3) 355-361 (Sep 1995), 5A206
Accuracy and stability of numerical schemes for the shallow water model, Numer Methods PDE 12(1) 85-98 (Jan 1996), 5A208
Hybrid numerical method for the shallow water equations with source term, Numer Methods PDE 12(1) 75-83 (Jan 1996), 5A209
New higher-order BEMs for wave diffraction-radiation, Appl Ocean Res 17(2) 71-77 (1995), 5A210
Finite analytic method for mild-slope wave equation, J Eng Mech 122(2) 109-115 (Feb 1996), 7A274
Interactive RANS-Laplace method for nonlinear free surface flows, J Eng Mech 122(2) 153-162 (Feb 1996), 7A275
Simulation of wave motion using a lattice gas model, Int J Numer Methods Fluids 22(4) 313-321 (Feb 1996), 7A276
Well-balanced scheme for the numerical processing of source terms in hyperbolic equations, SIAM J Numer Anal 33(1) 1-16 (Feb 1996), 7A277
Numerical computations of a nearly-singular nonlinear equation: Weakly nonlocal bound states of solitons for the fifth-order Korteweg-deVries equation, J Comput Phys 124(1) 55-70 (Mar 1996), 8A195
Numerical study of capillary-gravity solitary waves, Eur J Mech B 15(1) 17-36 (1996), 8A196
Finite element method for free surface flow problems, Comput Methods Appl Mech Eng 129(1-2) 43-51 (Jan 1996), 8A206
Capturing shock reflections: An improved flux formula, J Comput Phys 125(1) 42-58 (Apr 1996), 9T292
Transient wave envelope elements for wave problems, J Sound Vib 192(1) 245-261 (Apr 1996), 10A272
Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77 (SIAM, Phila, PA, 1995) 11N19
A *posteriori* error estimation and adaptive FE computation of the Helmholtz equation in exterior domains, Finite Elements Anal Des 22(1) 15-24 (May 1996), 11A27
Algorithm for calculating water surface elevations from surface gradient image data, Exp Fluids 21(1) 43-48 (May 1996), 12T244
Fast iterative method to compute the flow around a submerged body, Math Comput 65(215) 1067-1083 (Jul 1996), 12A252
SPLASH program for 3D fluid dynamics with free surface boundaries, Comput Mech 18(1) 12-23 (May 1996), 12A253

162Z. Experimental techniques

Evolution of a quasi-steady breaking wave, J Fluid Mech 302 29-44 (Nov 1995), 4A263
Resonant free surface waves in a rectangular basin, Wave Motion 22(2) 187-199 (Sep 1995), 4A267
Pros and cons of transient waves, Appl Ocean Res 17(2) 91-92 (1995), 5A211
Use of side-scan sonar for oceanographic investigations, Acoust Lett 18(10) 177-184 (Apr 1995), 6A917
Experimental and computational study of channelized water waves generated by a porous body, Acta Mech 115(1-4) 133-149 (1996), 9A295

164. WAVES IN COMPRESSIBLE FLUIDS

In-plane vibration and stability of shallow circular arches subjected to axial forces, Int J Solids Struct 33(4) 469-482 (Feb 1996), 4A279

164A. General theory

Ultrasonic studies of thermodynamic fluctuations in (2,2,2-trifluoroethan-1-ol + benzene), (benzene + dimethylsulfoxide) and (2,2,2-trifluoroethan-1-ol + dimethylsulfoxide) at 298.15K, Acoust Lett 18(6) 111-115 (Dec 1994), 2A185
Examination of the von Neumann paradox for a weak shock wave, Fluid Dyn Res 17(1) 13-25 (Dec 1995), 4A281
Shock dynamics theory based analytical solution of double Mach reflections, Shock Waves 5(4) 259-264 (Dec 1995), 5A212
Stability and nonlinear dynamics of 1D overdriven detonations in gases, J Fluid Mech 306 353-378 (Jan 1996), 7A281
Dynamics of multi-dimensional detonation, J Fluid Mech 309 225-275 (Feb 1996), 8A208
Theory of low Mach number compressible flow in a channel, J Fluid Mech 313 131-145 (Apr 1996), 11A203

164B. Expansion and compression

Space shuttle liftoff pressure wave, Comput Struct 59(4) 783-787 (May 1996), 9A296

164D. Shock, sonic boom, blast

Behavior of detonations passing through reflection nozzles, JSME Int J Ser B 38(3) 353-359 (Aug 1995), 1T238
Head-on interaction of planar shock waves with ideal rigid open-cell porous materials: Analytical model, Fluid Dyn Res 16(4) 203-215 (Sep 1995), 1A239
Nonlinear growth of the shock-accelerated instability of a thin fluid layer, J Fluid Mech 295 23-42 (Jul 1995), 1A240
Reconsideration of the state-of-the-art of the shock wave reflection phenomenon in steady flows, JSME Int J Ser B 38(3) 325-334 (Aug 1995), 1A241
Relativistic hydrodynamics and essentially non-oscillatory shock capturing schemes, J Comput Phys 120(2) 266-277 (Sep 1995), 1A242
Sensitivity algorithms for an inverse design problem involving a shock wave, Inverse Prob Eng 2(1) 49-83 (1995), 1A243
Experiments on supersonic combustion ramjet propulsion in a shock tunnel, J Fluid Mech 296 159-183 (Aug 1995), 1A245
Analysis of unstarted supersonic flutter in cascade by semiactuator disk theory, JSME Int J Ser B 38(3) 411-418 (Aug 1995), 1T262
Approximate solution of 1D piston problem, Z Angew Math Phys 46(5) 752-771 (Sep 1995), 2A186
Shock wave-vortex interaction in a flow over 90-deg sharp corner, AIAA J 33(9) 1740-1743 (Sep 1995), 2T187
Atomistic computer simulations of shock waves, Shock Waves 5(3) 149-157 (Oct 1995), 3T207
Experimental investigation on tunnel sonic boom, Shock Waves 5(3) 127-138 (Oct 1995), 3T208
Transition from fast deflagration to detonation under the influence of periodic longitudinal perturbations, Shock Waves 5(3) 159-167 (Oct 1995), 3T209
Two-dimensional autocorrelation function analysis of smoked foil patterns, Shock Waves 5(3) 169-174 (Oct 1995), 3A211
Weak discontinuities in a chemically reacting atmosphere, Arch Appl Mech 65(8) 529-536 (Oct 1995), 3A917
Formation of shock waves in gas-liquid foams, Shock Waves 5(3) 189-192 (Oct 1995), 3A931
Comparison of high-resolution schemes applied to flows containing strong shocks, AIAA J 33(11) 2087-2091 (Nov 1995), 4A48
Correct limit approximations for planar, cylindrical, and spherical blast waves, AIAA J 33(12) 2422-2424 (Dec 1995), 4T280
Examination of the von Neumann paradox for a weak shock wave, Fluid Dyn Res 17(1) 13-25 (Dec 1995), 4A281
Interaction of an isotropic field of acoustic waves with a shock wave, J Fluid Mech 300 383-407 (Oct 1995), 4A282
Starting point of curvature for reflected diffracted shock wave, AIAA J 33(11) 2230-2231 (Nov 1995), 4T283
Wide angle light scattering in shock-laser interaction, AIAA J 33(12) 2429-2431 (Dec 1995), 4T284
Effect of shock strength on oblique shock-wave and vortex interaction, AIAA J 33(11) 2137-2143 (Nov 1995), 4A992
Shock detection technique based on light scattering by shock, AIAA J 33(12) 2431-2433 (Dec 1995), 4T1133
Deflagration to detonation transition fueled by dust layers, Shock Waves 5(4) 249-258 (Dec 1995), 5A213

Mechanisms of detonation transmission in layered H_2-O_2 mixtures, Shock Waves 5(4) 225-238 (Dec 1995), 5T214
Strong converging shock waves in a radiating gas, Z Angew Math Mech 75(11) 847-859 (1995), 5A215
Unsteady characteristics of a hypersonic type IV shock interaction, J Aircraft 32(6) 1286-1293 (Dec 1995), 5A901
Acceleration of a sphere behind planar shock waves, Exp Fluids 20(2) 84-90 (Dec 1995), 6A199
Computational analysis of the unsteady type IV shock interaction of blunt body flows, J Propulsion Power 12(1) 127-133 (Feb 1995), 6A200
Concept of boiling-up shock, Russian Aeronaut 38(1) 82-85 (1995), 6A201
Boom event analyzer recorder: Unmanned sonic boom monitor, J Aircraft 33(1) 171-175 (Feb 1996), 7A278
Data-parallel total variation diminishing method for sonic boom calculations, J Aircraft 33(1) 87-92 (Feb 1996), 7A279
Interaction oblique shock waves and planar mixing regions, J Fluid Mech 306 43-57 (Jan 1996), 7A280
Stability and nonlinear dynamics of 1D overdriven detonations in gases, J Fluid Mech 306 353-378 (Jan 1996), 7A281
Vapor condensation behind a shock wave propagating through a large molecular-mass medium, Shock Waves 5(5) 287-292 (Feb 1996), 7T283
Oblique-shock and expansion-fan interaction: Analytical solution, AIAA J 34(2) 418-421 (Feb 1996), 7T1079
Behavior of a gas cavity impacted by a weak or strong shock wave, J Fluid Mech 309 183-209 (Feb 1996), 8A207
Dynamics of multi-dimensional detonation, J Fluid Mech 309 225-275 (Feb 1996), 8A208
Enstrophy generation in a shock-dominated turbulence, J Phys Soc Japan 65(2) 450-461 (Feb 1996), 8A209
Generation and convergence of polygonal-shaped shock waves, J Fluid Mech 309 301-319 (Feb 1996), 8A210
Supersonic cooling by shock-vortex interaction, J Fluid Mech 308 363-379 (Feb 1996), 8A211
Theory of embedded shock formation in rarefaction waves by homogeneous condensation, Eur J Mech B 15(1) 81-102 (1996), 8A212
Contribution to the optimal shape design of 2D internal flows with embedded shocks, J Comput Phys 125(1) 124-134 (Apr 1996), 9T297
Simulation of multiple shock-shock interference patterns on a cylindrical leading edge, AIAA J 34(4) 764-771 (Apr 1996), 9A298
Analysis and design of numerical schemes for gas dynamics - 2: Artificial diffusion and discrete shock structure, Int J Comput Fluid Dyn 5(1-2) 1-38 (1995), 9T301
Comparison of eddy viscosity-transport turbulence models for 3D, shock-separated flowfields, AIAA J 34(4) 756-763 (Apr 1996), 9A1191
Dusty shock flow with unstructured adaptive FEs and parcels, AIAA J 34(5) 1078-1080 (May 1996), 10T15
Mathematical model for a 3D viscous thin shock layer, TsAGI 1(2) 102-114 (1994), 10T1137
Experimental study of a normal shock-homogeneous turbulence interaction, AIAA J 34(5) 968-974 (May 1996), 10A1181
Sonic shocks governed by the modified Burgers' equation, European J Appl Math 7(2) 201-222 (Apr 1996), 11A191
Experimental and numerical study of the interaction between a planar shock wave and a square cavity, J Fluid Mech 313 105-130 (Apr 1996), 11A204
Rotating dissipation for accurate shock capture, AIAA J 34(6) 1289-1291 (Jun 1996), 11T205
Numerical simulation of the blast-wave accelerator, AIAA J 34(7) 1341-1347 (Jul 1996), 12A254
Mechanics of collisional motion of granular materials - Part 3: Self-similar shock wave propagation, J Fluid Mech 316 29-51 (Jun 1996), 12A1334

164F. Reflection, refraction, diffraction, scattering, absorption

Reconsideration of the state-of-the-art of the shock wave reflection phenomenon in steady flows, JSME Int J Ser B 38(3) 325-334 (Aug 1995), 1A241
Reflection of a moving shock wave: Boundary conditions for Monte-Carlo and continuum descriptions, Arch Mech 47(1) 69-80 (1995), 1A244
Point source excitation in direct and inverse scattering: The soft and the hard small sphere, IMA J Appl Math 55(1) 67-84 (1995), 1A328
Scattering of a scalar wave from a 2D randomly rough Neumann surface, Waves in Random Media 5(4) 381-411 (Oct 1995), 3A188
Tilt-invariant theory of rough-surface scattering: I, Waves in Random Media 5(4) 361-380 (Oct 1995), 3A189
Reconsideration of oblique shock wave reflections in steady flows - Part 2: Numerical investigation, J Fluid Mech 301 37-50 (Oct 1995), 4A285
Shock dynamics theory based analytical solution of double Mach reflections, Shock Waves 5(4) 259-264 (Dec 1995), 5A212
Numerical simulation of shock-cylinder interactions - Part I: Resolution, J Comput Phys 122(2) 244-265 (Dec 1995), 5T216
Behavior of a gas cavity impacted by a weak or strong shock wave, J Fluid Mech 309 183-209 (Feb 1996), 8A207
Highly-accurate numerical method for 2D and 3D shock reflection problems, Comput Fluids 25(3) 295-317 (Mar 1996), 9A299
Wave theory of diffraction, Wave Motion 23(2) 165-179 (Mar 1996), 10A269
Flow through a perforated surface due to shock-wave impact, J Fluid Mech 314 27-52 (May 1996), 11A206

164K. Other problems of compressible fluids

Head-on interaction of planar shock waves with ideal rigid open-cell porous materials: Analytical model, Fluid Dyn Res 16(4) 203-215 (Sep 1995), 1A239
Experiments on supersonic combustion ramjet propulsion in a shock tunnel, J Fluid Mech 296 159-183 (Aug 1995), 1A245
Nonlinear oscillations in a resonant gas column: An initial-boundary-value study, SIAM J Appl Math 55(4) 923-951 (Aug 1995), 1A287
Transition from fast deflagration to detonation under the influence of periodic longitudinal perturbations, Shock Waves 5(3) 159-167 (Oct 1995), 3T209
Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, Fluid Dyn Res 17(2) 49-65 (Jan 1996), 5A1305
Acceleration of a sphere behind planar shock waves, Exp Fluids 20(2) 84-90 (Dec 1995), 6A199
Nonlinear oscillations of a gas in a tube, Appl Mech Rev 49(3) 137-154 (Mar 1996), 6A202
Droplet break-up through an oblique shock wave, Shock Waves 5(5) 265-273 (Feb 1996), 7A282
Vapor condensation behind a shock wave propagating through a large molecular-mass medium, Shock Waves 5(5) 287-292 (Feb 1996), 7T283
Generation and convergence of polygonal-shaped shock waves, J Fluid Mech 309 301-319 (Feb 1996), 8A210
Supersonic cooling by shock-vortex interaction, J Fluid Mech 308 363-379 (Feb 1996), 8A211
Spatio-temporal bifurcations in plasma drift-waves, Physica D 91(3) 301-316 (Mar 1996), 9A300
Flow through a perforated surface due to shock-wave impact, J Fluid Mech 314 27-52 (May 1996), 11A206
Anisotropic wave propagation in radiating gases, Acta Tech CSAV 41(2) 205-215 (1996), 11A207
Propagation of shock waves in dilute bubbly liquids: Governing equations, Hugoniot relations, and effect of slippage between two phases, JSME Int J Ser B 39(2) 264-272 (May 1996), 11T208

164Y. Computational techniques

Relativistic hydrodynamics and essentially non-oscillatory shock capturing schemes, J Comput Phys 120(2) 266-277 (Sep 1995), 1A242
Accurate flux vector splitting for shocks and shear layers, J Comput Phys 121(1) 66-78 (Oct 1995), 2T188
Atomistic computer simulations of shock waves, Shock Waves 5(3) 149-157 (Oct 1995), 3T207
Computational study of shock wave focusing in a log-spiral duct, Shock Waves 5(3) 183-188 (Oct 1995), 3A210
Two-dimensional autocorrelation function analysis of smoked foil patterns, Shock Waves 5(3) 169-174 (Oct 1995), 3A211
Recent developments of the GRP method, JSME Int J Ser B 38(4) 497-517 (Nov 1995), 4A78
Reconsideration of oblique shock wave reflections in steady flows - Part 2: Numerical investigation, J Fluid Mech 301 37-50 (Oct 1995), 4A285
Application of generalized wavelets: An adaptive multiresolution scheme, J Comput Appl Math 61(3) 275-321 (Aug 1995), 4A286
Numerical simulation of shock-cylinder interactions - Part I: Resolution, J Comput Phys 122(2) 244-265 (Dec 1995), 5T216
Efficient, robust second-order total variation diminishing scheme, AIAA J 34(1) 193-195 (Jan 1996), 6T203
Wave propagation in catalytic converters: Formulation of the problem and FE solution scheme, J Sound Vib 188(5) 635-657 (Dec 1995), 6A204
Contribution to the optimal shape design of 2D internal flows with embedded shocks, J Comput Phys 125(1) 124-134 (Apr 1996), 9T297
Highly-accurate numerical method for 2D and 3D shock reflection problems, Comput Fluids 25(3) 295-317 (Mar 1996), 9A299
Analysis and design of numerical schemes for gas dynamics - 2: Artificial diffusion and discrete shock structure, Int J Comput Fluid Dyn 5(1-2) 1-38 (1995), 9T301
Convergence rate of approximate solutions to weakly coupled nonlinear systems, Math Comput 65(214) 575-586 (Apr 1996), 9A302
Peristaltic transport of a viscoelastic fluid: A long wavelength approximation, Arch Mech 47(6) 1157-1167 (1995), 9A303
Gaseous flow originated by a gunshot - I:, Int J Comput Fluid Dyn 5(3-4) 245-261 (1995), 9T1110
Transient wave envelope elements for wave problems, J Sound Vib 192(1) 245-261 (Apr 1996), 10A272
Nonoscillatory high order accurate self-similar maximum principle satisfying shock capturing schemes I, SIAM J Numer Anal 33(2) 760-779 (Apr 1996), 10A298
Implementation of a front tracking method for hyperbolic conservation laws, Adv Eng Software 26(1) 45-63 (1996), 12A255
Parallel adaptive grid algorithm for computational shock hydrodynamics, Appl Numer Math 20(4) 427-453 (Apr 1996), 12A256

164Z. Experimental techniques

LDA measurements in the near-wall region of a turbulent pipe flow, J Fluid Mech 295 305-335 (Jul 1995), 1A246
Acceleration of a sphere behind planar shock waves, Exp Fluids 20(2) 84-90 (Dec 1995), 6A199
Three-component force balance for flows of millisecond duration, AIAA J 34(3) 590-595 (Mar 1996), 8A1043

166. SOLID FLUID INTERACTIONS

166A. General theory

Complete linear theory for a 2D floating and liquid-filled membrane structure in waves, J Fluids Struct 9(8) 937-956 (Nov 1995), 5A218
Possibility of equilibrium positions of rapidly-rotating bodies in gravitational fields, J Appl Math Mech 59(5) 719-725 (1995), 8A213
Derivation of a thin film equation by a direct approach, J Appl Mech 63(2) 467-473 (Jun 1996), 12A245

166B. Nonlinear theory

Dynamic behavior of an initially stressed pipeline, Mech Solids 30(2) 140-146 (1995), 5A225
Finite element analysis of solid-fluid interaction considering the geometric nonlinearity of the solid (Chinese), J Comput Struct Mech Appl 12(4) 453-461 (Nov 1995), 9A35

166C. External flow

Nonlinear interaction of free vibrations of cylinder in water near a plane bottom, J Fluids Struct 9(6) 697-711 (Aug 1995), 1T137
Force on a circular cylinder in an elliptical orbital flow at low Keulegan-Carpenter numbers, J Fluids Struct 9(6) 617-638 (Aug 1995), 1A247
Blast wave simulation using AUTODYN2D: A parametric study, Int J Impact Eng 16(5-6) 777-787 (Dec 1995), 2A189
Cable geometry for a towed submersible, Int J Mech Sci 37(10) 1079-1087 (Oct 1995), 2A458
Hydrodynamic instabilities in flat-plate-type fuel assemblies, Nucl Eng Des 158(1) 1-17 (Sep 1995), 2A1273
Laminar boundary layer receptivity to transverse structural vibration, J Sound Vib 186(3) 463-493 (Sep 1995), 3A212
Source function to generate an individual mode in a fluid-solid medium, J Sound Vib 186(3) 527-534 (Sep 1995), 3A213
Ovalling oscillations of cantilevered cylindrical shells in cross-flow: New experimental data, J Fluids Struct 9(7) 729-745 (Oct 1995), 3A217
Fluidelastic instability in a tube array subjected to two-phase R-11 cross-flow, J Fluids Struct 9(7) 747-771 (Oct 1995), 3A226
Fast vortex methods for predicting wind-induced pressures on buildings, J Wind Eng Indust Aerodyn 58(1-2) 51-79 (Oct 1995), 4T295
Experiment of chaotic vibration of loosely supported tube rows in cross-flow, J Pressure Vessel Tech 117(3) 204-212 (Aug 1995), 5A217
Application of chimera technique to projectiles in relative motion, J Spacecraft Rockets 32(5) 795-800 (Oct 1995), 5A1015
Fluid dynamics of parachute inflation, Annu Rev Fluid Mech 28 361-387 (1996), 6A205
Hydroelasticity of rotating bodies: Theory and application, Marine Struct 9(6) 631-646 (1996), 7A1151
Interaction of turbulent coherent structures and small-scale structures, Appl Math Mech 16(12) 1175-1183 (Dec 1995), 8A214
Methodology for modeling lift as a modulated process, J Offshore Mech Arctic Eng 118(1) 21-28 (Feb 1996), 8A215
Oscillating flow about 2D and 3D bilge keels, J Offshore Mech Arctic Eng 118(1) 1-6 (Feb 1996), 8A216
Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, J Fluids Struct 10(1) 79-98 (Jan 1996), 8A877
Interactions of vortex-induced vibrations of a circular cylinder and a steady approach flow at a Reynolds number of 13,000, Comput Fluids 25(3) 283-294 (Mar 1996), 9A304
Analysis of fluidelastic instability of air-water mixture, J Pressure Vessel Tech 118(2) 188-193 (May 1996), 10A299
Latent spatial resonances at thin-walled structure vibrations in convecting field of random pressure fluctuations, TsAGI 1(1) 108-116 (1994), 10T300
Prediction of acoustic vibration in steam generation and heat exchanger tube banks, J Pressure Vessel Tech 118(2) 221-236 (May 1996), 10A368
Numerical simulation of a self-sustained wake-edge interaction, J Fluids Struct 10(3) 215-236 (Apr 1996), 11T209
Flow past a flat plate with a vortex-sink combination, J Appl Mech 63(2) 543-550 (Jun 1996), 12A257

166D. Internal flow (incl sloshing)

Baffle effect on sloshing-modulated torques responsed to orbital accelerations in microgravity, J Spacecraft Rockets 32(4) 723-731 (Aug 1995), 1A248
Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N13
Fluid-Structure Interaction and Structural Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N14
Multifractals in elastic tube vibrations due to internal flow, J Fluids Struct 9(7) 787-799 (Oct 1995), 3T214
Mathematical study of the small oscillations of a liquid column in a symmetrical cylindrical container under zero gravity, J Fluids Struct 9(7) 773-786 (Oct 1995), 3T904
Influence of enclosed air on vibration modes of a shell structure, J Sound Vib 187(3) 451-466 (Nov 1995), 4A176
Effectiveness of tuned liquid column dampers for vibration control of towers, Eng Struct 17(9) 668-675 (Nov 1995), 4A215
Approximations to sloshing frequencies for rectangular tanks with internal structures, J Eng Math 29(6) 537-556 (Nov 1995), 4A287
Fluid-structure interaction problems in bio-fluid mechanics: A numerical study of the motion of an isolated particle freely suspended in channel flow, Med Eng Phys 17(8) 609-617 (Dec 1995), 4A288
Vibration analysis of cylindrical shells in contact with an annular fluid region, Eng Struct 17(10) 714-724 (Dec 1995), 4A289
Sloshing analysis method using existing FEM structural analysis code, J Pressure Vessel Tech 117(3) 268-272 (Aug 1995), 5A21
Complete linear theory for a 2D floating and liquid-filled membrane structure in waves, J Fluids Struct 9(8) 937-956 (Nov 1995), 5A218
Sloshing-induced moment driven by gravity gradient associated with spacecraft slew motion, J Spacecraft Rockets 32(5) 817-824 (Oct 1995), 5A245
Base uplifting analysis of flexibly supported liquid-storage tanks, Earthquake Eng Struct Dyn 24(12) 1591-1607 (Dec 1995), 5A1313
Actuation of sloshing modulated force and moment on liquid container driven by jitter accelerations associated with slew motion in microgravity, Appl Math Mech 16(9) 859-876 (Sep 1995), 6A206
Nonstationary revolution of a cylindrical reservoir partially filled with liquid (Russian), Prikl Mekh (Appl Mech) 31(5) 88-95 (1995), 7A284
Transmission line modeling of simulated drill strings undergoing water-hammer, Proc Inst Mech Eng C 209(C6) 419-427 (1995), 7A285
Free-Lagrange method for unsteady compressible flow: Simulation of a confined cylindrical blast wave, Shock Waves 5(5) 311-325 (Feb 1996), 7T297
Heteroclinic bifurcations in flow-induced oscillations of cylinders, J Fluids Struct 10(1) 33-45 (Jan 1996), 8A86

Energy exchange between the coupled media of impulsively-excited, fluid-filled, elastic cylinders, J Sound Vib 196(5) 763-774 (Mar 1996), 8A217
Calculation method for design shear capacity for slurry wall member with joint (Japanese), Proc JSCE 532(V-30) 29-39 (Feb 1996), 9A305
Fluid-structure interaction in liquid-filled pipe systems: A review, J Fluids Struct 10(2) 109-146 (Feb 1996), 9A319
Vibration analysis of a 3D piping system conveying fluid by wave approach, Int J Pressure Vessels Piping 67(3) 249-256 (1996), 10A157
Free vibration of a fluid-filled circular cylindrical shell with lumped masses attached, using the receptance method, Shock Vib 3(3) 159-167 (1996), 10A301
Free vibration of partially-filled, horizontal cylindrical shells, J Sound Vib 191(5) 757-780 (Apr 1996), 10A302
Modeling of sloshing modulated angular momentum fluctuations actuated by gravity gradient associated with spacecraft slew motion, Appl Math Model 20(5) 399-409 (May 1996), 10A303
Nonlinear hydroelastic vibration of a cylindrical tank with an elastic bottom containing liquid - III: Nonlinear analysis with Ritz averaging method, Int J Non-Linear Mech 31(2) 155-165 (Mar 1996), 10A304
Axisymmetric vibrational power measurement in empty and fluid-filled pipes, J Sound Vib 192(4) 771-791 (May 1996), 11A210
Multi-mode resonances in fluids, J Fluid Mech 315 317-344 (May 1996), 11A211
Vibration modes of a resonant silicon tube density sensor, J Microelectromechanical Syst 5(1) 39-44 (Mar 1996), 11A352
Large amplitude liquid sloshing in seismically excited tanks, Earthquake Eng Struct Dyn 25(7) 653-669 (Jul 1996), 12A258
Response of lateral impulse on liquid helium sloshing with baffle effect in microgravity, Int J Mech Sci 38(8-9) 951-965 (Sep 1996), 12A259
Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, J Sound Vib 193(3) 669-690 (Jun 1996), 12A263
Experiment on harbor resonance induced by incident regular waves and irregular short waves, Coastal Eng 27(1-2) 47-66 (May 1996), 12A1029

166E. Vibration of structures in fluids

Fluid Structure Interaction: Applied Numerical Methods (Wiley, New York, 1995) 1R5
Brewster angle for fluid-solid interfaces, J Sound Vib 185(3) 501-506 (Aug 1995), 1A249
Continuous sliding mode control of flow-induced vibrations, Shock Vib 2(5) 365-372 (1995), 1A250
Damping of flexural and acoustic waves by a bias-flow perforated elastic plate, European J Appl Math 6(4) 307-328 (Aug 1995), 1A251
Experimental fluid-force coefficients for wake-induced cylinder vibration, J Eng Mech 121(9) 1003-1015 (Sep 1995), 1A252
Motion of a torsion pendulum immersed in a linear viscous liquid, J Sound Vib 184(5) 745-758 (Aug 1995), 1A253
Pitch analysis of a space module after water landing, J Spacecraft Rockets 32(4) 601-607 (Aug 1995), 1A254
Propagation of Lamb waves in a plate bordered with a viscous liquid, J Acoust Soc Am 98(2) 1057-1064 (Aug 1995), 1A255
Review of theoretical models for fluidelastic instability of cylinder arrays in cross-flow, J Fluids Struct 9(5) 463-518 (Jul 1995), 1A256
Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, J Fluids Struct 9(5) 519-538 (Jul 1995), 1T257
Effect of mean flow on responses of a fluid-loaded plate, J Acoust Soc Am 98(3) 1786-1795 (Sep 1995), 1A284
Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N13
Transient Thermal Hydraulics, Heat Transfer, and Coupled Vessel and Piping Responses - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N17
Axisymmetrical waves in elastic hollow cylinder filled and surrounded with liquid (Russian), Prikl Mekh (Appl Mech) 30(9) 15-23 (1994), 3A215
Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), J Vib Eng 8(2) 111-118 (Jun 1995), 3A216
Ovalling oscillations of cantilevered cylindrical shells in cross-flow: New experimental data, J Fluids Struct 9(7) 729-745 (Oct 1995), 3A217
Rayleigh-Ritz method in coupled fluid-structure interacting systems and its applications, J Sound Vib 186(4) 543-550 (Oct 1995), 3A218
Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, J Acoust Soc Am 98(5) 2622-2627 (Nov 1995), 3A307
Surface pressure measurements on a pitching swept wing in a water channel, AIAA J 33(10) 1871-1879 (Oct 1995), 3A989
Quasi-steady analysis of one dof galloping with combined translational and rotational effects, Nonlinear Dyn 8(4) 435-451 (Dec 1995), 4A125
Wave scattering by circular arc shaped plates, J Eng Math 29(6) 575-589 (Nov 1995), 4A237
String bowing revisited, Z Angew Math Phys 46(6) 883-897 (Nov 1995), 5A130
Vibrating cylinder in a cylindrical duct filled with an incompressible fluid of low viscosity, Acta Mech 113(1-4) 93-107 (1995), 5A219
Finite element micromechanical modeling of the cochlea in 3D, J Acoust Soc Am 99(1) 455-467 (Jan 1996), 6A207
Hybrid ray-mode (wavefront-resonance) approach for analyzing acoustic radiation and scattering by submerged structures, J Acoust Soc Am 99(1) 114-132 (Jan 1996), 6A208
Leaky Rayleigh wave scattering from elastic media with random microstructures, J Acoust Soc Am 99(1) 88-99 (Jan 1996), 6A209
Longitudinal-transverse oscillations of elastic beam with liquid, Russian Acronaut 38(1) 70-73 (1995), 6A210
Natural frequencies and modes of free-edge circular plates vibrating in vacuum or in contact with liquid, J Sound Vib 188(5) 685-699 (Dec 1995), 6A211
Ray tracing over smooth elastic shells of arbitrary shape, J Acoust Soc Am 99(1) 55-64 (Jan 1996), 6A212
Transient analytic and numerical results for the fluid-solid interaction of prolate spheroidal shells, J Acoust Soc Am 99(1) 392-407 (Jan 1996), 6A213
Behavior of extensional modes in a thin rod immersed in a viscous medium, J Acoust Soc Am 99(2) 706-712 (Feb 1996), 7A286
Energy conservation and the damping of flexural waves by vorticity production, J Sound Vib 190(1) 1-19 (Feb 1996), 7A287
Influence of a nonrigid baffle on intermodal radiation impedances of a fluid-loaded bilaminar plate, J Sound Vib 190(2) 221-237 (Feb 1996), 7A288
Analytical solution of radiated sound pressure of ring-stiffened cylindrical shells in fluid medium, Appl Math Mech 16(12) 1143-1148 (Dec 1995), 8A218
Fluid-structural coupling of vibrating bodies in a surrounding confined liquid, Z Angew Math Mech 76(2) 67-79 (1996), 8A219
Weak and strong interactions in vortex-induced resonant vibrations of cylindrical structures, J Sound Vib 190(5) 791-820 (Mar 1996), 8A220
Experience with unusual acoustic vibration in heat exchanger and steam generator tube banks, J Fluids Struct 10(1) 99-107 (Jan 1996), 8T222
Structural control of a steel jacket platform, Struct Eng and Mech 4(2) 125-138 (Mar 1996), 8A334
Acoustic time-dependent loading on elastic shells of revolution using the internal source density and singular value decomposition method, J Acoust Soc Am 99(4) 1913-1923 (Apr 1996), 9A306
Hydroelastic vibration of rectangular plates, J Appl Mech 63(1) 110-115 (Mar 1996), 9A307
Impact vibration analysis of group of hexagonal bars immersed in liquid, JSME Int J Ser C 39(1) 11-19 (Mar 1996), 9A308
Resonant interaction between a uniform current and an oscillating object, Appl Ocean Res 17(4) 259-264 (1995), 9A309
Vertical travels of a beakon-like buoy with measuring line on waves, Prikl Mekh (Appl Mech) 31(7) 83-88 (1995), 9A310
Wave propagation in fluid-loaded, transversely isotropic cylinders - Part I: Analytical formulation, J Acoust Soc Am 99(4) 1841-1847 (Apr 1996), 9A311
Wave propagation in fluid-loaded, transversely isotropic cylinders - Part II: Numerical results, J Acoust Soc Am 99(4) 1848-1853 (Apr 1996), 9A312
Line admittance at the junction of two plates with and without fluid loading, J Sound Vib 191(1) 29-51 (Mar 1996), 9A342
Cause of anomalous behavior of the A_0 leaky Lamb mode, J Sound Vib 191(5) 999-1002 (Apr 1996), 10T305
Free vibrations of annular plates coupled with fluids, J Sound Vib 191(5) 825-846 (Apr 1996), 10A306
Natural frequencies of an elastic spherically-isotropic hollow sphere submerged in a compressible fluid medium, J Sound Vib 192(1) 173-198 (Apr 1996), 10A307
Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - I: Theoretical study, Eng Struct 18(6) 437-446 (Jun 1996), 10A311
Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - II: Empirical modal analysis, Eng Struct 18(6) 447-458 (Jun 1996), 10A312
Study of hydrodynamic characteristics and vibration of cantilever structure in water (Chinese), J Dalian Univ Tech 36(3) 329-333 (May 1996), 11A212
Nonlinear flutter analysis of missiles with pneumatic fin actuators, J Guidance Control Dyn 19(3) 664-670 (Jun 1996), 11A226
Flow-Induced Vibration - Proc of 6th Int Conf, London, UK, April 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N6
Effect of finite fluid depth on the hydroelastic vibrations of circular and annular plates, J Sound Vib 193(4) 909-925 (Jun 1996), 12A260
Effects of fluid-loading on Lamb mode spectra, J Acoust Soc Am 99(6) 3488-3496 (Jun 1996), 12A261
Chaotic vibration in fluid-stiffness-controlled instability of a tube row in crossflow, J Appl Mech 63(2) 487-492 (Jun 1996), 12A264

166F. Interactions of waves with flexible structures

Fluid-solid interaction: Acoustic scattering by a smooth elastic obstacle, SIAM J Appl Math 55(4) 904-922 (Aug 1995), 1A258
Review of the probabilistic description of Morison wave loading and response of fixed offshore structures, J Fluids Struct 9(6) 585-616 (Aug 1995), 1A261
Application of the Haskind-Hanaoka relations to hydroelasticity problems, Marine Struct 8(6) 617-629 (1995), 2A190
Panel oscillations and acoustic waves, Appl Math letters 8(1) 37-42 (Jan 1995), 2A191
Effect of liquid viscosity on the waves in elastic layer preliminarily strained with compression and interacting with liquid medium (Russian), Prikl Mekh (Appl Mech) 30(9) 3-9 (1994), 3A219
Slepian models for waves and wave-structure interaction, Eng Struct 17(10) 696-704 (Dec 1995), 4A290
Stability analysis for the immersed fiber problem, SIAM J Appl Math 55(6) 1577-1591 (Dec 1995), 4A291
Interface wave diffraction by a thin vertical barrier submerged in the lower fluid, Appl Ocean Res 17(2) 93-102 (1995), 5A207
Hydrodynamic parameters for a two-body axisymmetric system, Appl Ocean Res 17(2) 103-115 (1995), 5A220
Interaction of transient waves with a circular surface-piercing body, J Fluids Eng 117(3) 382-388 (Sep 1995), 5A221
Numerical confirmation of the hysteresis phenomenon in the regular to the Mach reflection transition in steady flows, Shock Waves 5(4) 199-203 (Dec 1995), 5T222
Wave and current forces on a vertical cylinder free to surge and sway, Appl Ocean Res 17(2) 79-90 (1995), 5A223
Wave-power absorption by a line of submerged horizontal cylinders, Appl Ocean Res 17(2) 117-126 (1995), 5A224
Damping of sound and vibration by flow nonlinearity in the apertures of a perforated elastic screen, IMA J Appl Math 55(3) 221-242 (1995), 6A214
Interaction of waves with horizontal cylinders in two-layer fluids, J Fluid Mech 304 213-229 (Dec 1995), 6A215
Numerical method for nonlinear interaction between Stokes wave and coastal structures (Japanese), Proc JSCE 527(II-33) 37-47 (Nov 1995), 6A216
Slow drift damping force acting on a cylinder in waves, J Hydrodyn 7(4) 82-95 (1995), 6T217
Stochastic fluid-structure interaction of large circular floating islands during wind waves and seaquakes, Probab Eng Mech 10(4) 209-224 (1995), 6A218
Control of panel response to turbulent boundary-layer and acoustic excitations, AIAA J 34(2) 259-264 (Feb 1996), 7A350
Calculation method of resonant frequency on wave-induced shiphull vibration (Chinese), J Dalian Univ Tech 35(2) 212-215 (Apr 1995), 8A147
Floating membrane breakwater, J Offshore Mech Arctic Eng 118(1) 46-52 (Feb 1996), 8A221
Structural control of a steel jacket platform, Struct Eng and Mech 4(2) 125-138 (Mar 1996), 8A334
Response of a viscous incompressible fluid cylinder to an incident plane compressional elastic wave, SIAM J Appl Math 56(2) 372-387 (Apr 1996), 9A313
Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, Acta Mech Sinica 11(4) 373-382 (1995), 10A309
Extreme jack-up response: Simulation and nonlinear analysis methods, J Offshore Mech Arctic Eng 118(2) 103-108 (May 1996), 11A144
Eigenfunction expansion-matching method for analyzing the wave-induced responses of an elastic floating plate, Appl Ocean Res 17(5) 301-310 (1995), 11A213
Hydrodynamic damping force on a cylinder in oscillatory, very-high-Reynolds-number flows, Appl Ocean Res 17(5) 291-300 (1995), 11A214
Hydrodynamic interactions of cnoidal waves with a vertical cylinder, Appl Ocean Res 17(5) 277-289 (1995), 11A215
Influence of alternative wave loading and support modeling assumptions on jack-up rig response extremes, J Offshore Mech Arctic Eng 118(2) 109-114 (May 1996), 11A216
Second-order horizontal steady forces and moment on a floating body with small forward speed, J Fluid Mech 313 39-54 (Apr 1996), 11A217
Second-order slow drift force spectrum, Appl Ocean Res 17(5) 311-313 (1995), 11A218
State-space modeling of a vertical cylinder in heave, Appl Ocean Res 17(5) 265-275 (1995), 11A219
Forward motion effects on jet noise, panel vibration, and radiation, AIAA J 34(6) 1103-1110 (Jun 1996), 11A245
Cobblestone effect on surface effect ships, Ship Tech Res 43(2) 78-90 (May 1996), 12A203
Scattering of long waves around a circular island mounted on a conical shoal, Wave Motion 23(4) 353-362 (Jun 1996), 12A250
Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, Eng Struct 18(9) 675-684 (Sep 1996), 12A262
Vertical wave excitation for bodies in revolution, Ship Tech Res 43(2) 70-77 (May 1996), 12A1022

166H. Flexible tanks and containers

Free vibrations of cylindrical tanks, J Brazilian Soc Mech Sci 16(3) 222-237 (1994), 2A192
Nonaxisymmetric dynamic response of imperfectly bonded buried fluid-filled orthotropic cylindrical shells, J Pressure Vessel Tech 118(1) 64-73 (Feb 1996), 7A174
Experimental studies of dynamic behavior of gas liquid media in spherical shells under effect of vibration, Prikl Mekh (Appl Mech) 31(1) 68-73 (1995), 7A289
Use of transition functions in the problems of nonstationary hydroelasticity for the systems of cylindrical shells, Prikl Mekh (Appl Mech) 30(11) 36-42 (1994), 7A290
Combined capillarity and elasticity problem for a thin plate, SIAM J Appl Math 56(2) 480-493 (Apr 1996), 9A314
Determining dynamic characteristics of ideal noncompressible liquid excited by spherical segment in cylindrical cavity, Prikl Mekh (Appl Mech) 31(7) 71-78 (1995), 9T315
Free oscillations of liquid in a rectangular canal with elastic membrane on the free surface, Prikl Mekh (Appl Mech) 31(8) 74-80 (1995), 9A316
Equilibrium of a membrane in contact with a fluid, Mech Solids 30(5) 129-135 (1995), 10A308
Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, Acta Mech Sinica 11(4) 373-382 (1995), 10A309
Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, Composite Struct 34(2) 349-355 (1996), 11A121
Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, J Sound Vib 193(3) 669-690 (Jun 1996), 12A263

166I. Pipes with flowing fluids

Experimental investigation of flow-induced acoustic oscillations in a piping system with closed branches, Appl Acoust 45(4) 359-375 (1995), 1A297
Natural frequencies and critical velocities of fixed-fixed laminated circular cylindrical shells conveying fluids, Comput Struct 57(5) 929-939 (Dec 1995), 2A193
Lateral vibration of fluid-conveying pipes, Struct Eng Review 7(1) 15-21 (Feb 1995), 3A220
Non-symmetrical wave propagation in arteries, Acta Mech 112(1-4) 135-148 (1995), 3A1408
Dynamic behavior of an initially stressed pipeline, Mech Solids 30(2) 140-146 (1995), 5A225
Initially deformed dissimilar elastic tubes containing fluid flow, Appl Math Model 20(1) 52-59 (Jan 1996), 5A226
Experience with unusual acoustic vibration in heat exchanger and steam generator tube banks, J Fluids Struct 10(1) 99-107 (Jan 1996), 8T222
Vibration and stability of fluid conveying pipes with stochastic parameters, Struct Eng and Mech 3(4) 313-324 (Jul 1995), 8A223
Dynamic effects of centrifugal forces on turbulence, J Appl Mech 63(1) 84-94 (Mar 1996), 9A317
Effect of boundary conditions on the stability of a cantilever pipe discharging and aspirating fluid, JSME Int J Ser C 39(1) 20-24 (Mar 1996), 9A318
Fluid-structure interaction in liquid-filled pipe systems: A review, J Fluids Struct 10(2) 109-146 (Feb 1996), 9A319
Stability of cylindrical shells conveying viscous flow, J Fluids Struct 10(2) 173-196 (Feb 1996), 9A320
Chaotic vibration in fluid-stiffness-controlled instability of a tube row in crossflow, J Appl Mech 63(2) 487-492 (Jun 1996), 12A264

166J. Turbomachine blades excitation

Flow-Induced Vibration - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 1N10

Unsteady fluid forces on a blade in a cross-flow turbine, JSME Int J Ser B 38(3) 404-410 (Aug 1995), 1A259

Perpendicular blade vortex interaction, AIAA J 33(9) 1667-1674 (Sep 1995), 2A194

Effects of variational particle restitution characteristics on turbomachinery erosion, J Eng Gas Turbines Power 117(3) 432-440 (Jul 1995), 5A227

Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, Mech Solids 30(2) 156-161 (1995), 5A228

Unsteady propeller surface pressure prediction with a potential based panel method, J Hydrodyn 7(4) 35-41 (1995), 6T1011

Estimation of the strength of turbine blade shell layers with permeable surfaces, J Machinery Manuf Reliab 4 44-48 (1995), 7T643

Determination of blade stresses under constant speed and transient conditions with nonlinear damping, J Eng Gas Turbines Power 118(2) 424-433 (Apr 1996), 10A310

Problems of strength and aeroelasticity of state-of-the-art propfans, TsAGI 1(1) 117-128 (1994), 10A318

Impact of second generation single crystal superalloys of foundry technology, Proc Inst Mech Eng J Aerospace Eng 210(G2) 147-155 (1996), 11A220

166K. Ocean structures

Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, Int J Numer Methods Fluids 21(4) 295-310 (Aug 1995), 1A260

Review of the probabilistic description of Morison wave loading and response of fixed offshore structures, J Fluids Struct 9(6) 585-616 (Aug 1995), 1A261

Return periods and encounter probabilities, Appl Ocean Res 17(2) 127-136 (1995), 5A1339

Surge response statistics of tension leg platforms under wind and wave loads: A statistical quadratization approach, Probab Eng Mech 10(4) 225-240 (1995), 6A219

Interaction of water waves with a group of submerged spheres, Appl Ocean Res 17(3) 165-184 (1995), 7A291

Water exchange and water quality in the coastal zone in the presence of structures, Coastal Eng 26(3-4) 207-223 (Dec 1995), 7A292

Structural control of a steel jacket platform, Struct Eng and Mech 4(2) 125-138 (Mar 1996), 8A334

Hydrodynamic behavior of long floating structures in directional seas, Appl Ocean Res 17(4) 233-243 (1995), 9A321

Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - I: Theoretical study, Eng Struct 18(6) 437-446 (Jun 1996), 10A311

Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - II: Empirical modal analysis, Eng Struct 18(6) 447-458 (Jun 1996), 10A312

Analysis of gravity perturbated waves in a deep oceanic structure using a thin-layered element and discrete wavenumber method, Proc JSCE 537(I-35) 23-28 (Apr 1996), 11A221

Dynamics of an articulated cylinder in annular flow via nonlinear and partially-linearized versions of an analytical model, J Sound Vib 192(3) 645-668 (May 1996), 11A222

Hydrodynamic coefficients for calculation of hydrodynamic loads on offshore truss structures, Marine Struct 9(8) 745-758 (1996), 11A223

Stochastic and deterministic combinations of still water and wave bending moments in ships, Marine Struct 9(8) 787-810 (1996), 11A789

Flow-Induced Vibration - Proc of 6th Int Conf, London, UK, April 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N6

166N. Flutter and flutter control

Analysis of unstarted supersonic flutter in cascade by semiactuator disk theory, JSME Int J Ser B 38(3) 411-418 (Aug 1995), 1T262

Application of H_∞ control and LQC with frequency-dependent weight syntheses to a multivariable active flutter suppression system, Proc Inst Mech Eng J Aerospace Eng 209(G3) 233-243 (1995), 2A195

Elastic instability of beams subjected to a partially tangential force, J Sound Vib 186(1) 111-123 (Sep 1995), 2A196

Unstructured Euler flutter analysis of 2D wing-tail configuration, J Aircraft 32(5) 1152-1155 (Oct 1995), 2T197

Flutter stability of a detuned cascade in subsonic compressible flow, J Propulsion Power 11(5) 923-930 (Oct 1995), 2A961

Digital adaptive flutter suppression and simulation using approximate transonic aerodynamics, J Vib and Control 1(4) 363-388 (Nov 1995), 3A221

Dynamic design of a flutter model of airfoil (Chinese), J Vib Eng 8(2) 184-189 (Jun 1995), 3A222

Modeling of a vibrating plate in gas flow, J Sound Vib 186(4) 705-708 (Oct 1995), 3A223

Optimal design of composite lifting surface for flutter suppression with piezoelectric actuators, AIAA J 33(10) 1897-1904 (Oct 1995), 3A224

Sensitivity of flutter response of a wing to shape and modal parameters, AIAA J 33(10) 1983-1986 (Oct 1995), 3T225

Quasi-steady analysis of one dof galloping with combined translational and rotational effects, Nonlinear Dyn 8(4) 435-451 (Dec 1995), 4A125

Finite element flutter analysis of composite skew panels, Comput Struct 58(3) 613-620 (Feb 1996), 4A292

KBM method of analyzing limit cycle flutter of a wing with an external store and comparison with a wind-tunnel test, J Sound Vib 187(2) 271-280 (Oct 1995), 4A293

Effect of damping forces on the postcritical behavior of substantially nonpotential systems, Mech Solids 30(2) 147-155 (1995), 5A81

KBM method of flutter analysis with structural nonlinearity and the comparison with wind tunnel test (Chinese), J Vib Eng 8(4) 351-355 (Dec 1995), 6A220

Optimal excitation for aircraft flutter testing, Proc Inst Mech Eng J Aerospace Eng 209(G4) 313-325 (1995), 6A221

Quasisteady aerodynamics for flutter analysis using steady computational fluid dynamics calculations, J Aircraft 33(1) 191-197 (Feb 1996), 7A293

Supression of nonlinear panel flutter at supersonic speeds and elevated temperatures, AIAA J 34(2) 347-354 (Feb 1996), 7A294

Effects of acoustic excitations on active flutter control, J Sound Vib 190(5) 843-846 (Mar 1996), 8A224

Flutter analysis of propfans using a 3D Euler solver, J Propulsion Power 12(2) 267-273 (Apr 1996), 8A225

Flutter of coupled bending-torsion systems with a frequency ratio close to one, J Fluids Struct 10(1) 47-56 (Jan 1996), 8T226

Mode tracking during flutter testing using the modal assurance criterion, Proc Inst Mech Eng J Aerospace Eng 210(G1) 27-37 (1996), 8A227

Plate backed by a cavity: The features of dynamic instability, J Sound Vib 190(5) 775-789 (Mar 1996), 8A228

Supersonic flutter analysis of stiffened isotropic and anisotropic panels, AIAA J 34(3) 637-639 (Mar 1996), 8T229

Nonlinear dynamics of test models in wind tunnels, Eur J Mech A 15(1) 91-136 (1996), 8A1056

Effect of boundary conditions on the stability of a cantilever pipe discharging and aspirating fluid, JSME Int J Ser C 39(1) 20-24 (Mar 1996), 9A318

Nonclassical effects on divergence and flutter of anisotropic swept aircraft wings, AIAA J 34(4) 786-794 (Apr 1996), 9A322

Supersonic flutter analysis of thermally stressed laminated composite flat panels, Composite Struct 34(2) 241-248 (1996), 9A323

Fluid-structure coupling kinetic analysis of propellers (Chinese), J Dalian Univ Tech 36(2) 219-223 (Mar 1996), 9A1234

Flutter of geometrically-imperfect shear-deformable laminated flat panels using nonlinear aerodynamics, J Sound Vib 192(1) 79-100 (Apr 1996), 10A313

Time-domain analysis of low-speed airfoil flutter, AIAA J 34(5) 1027-1033 (May 1996), 10A314

Planar cross-section law in supersonic aerodynamics and the panel flutter problem, Mech Solids 30(6) 126-130 (1995), 10T1194

Active panel flutter suppression using self-sensing piezoactuators, AIAA J 34(6) 1224-1230 (Jun 1996), 11A224

Flutter stability of decks for super long-span bridge (Japanese), Proc JSCE 537(I-35) 191-203 (Apr 1996), 11A225

Nonlinear flutter analysis of missiles with pneumatic fin actuators, J Guidance Control Dyn 19(3) 664-670 (Jun 1996), 11A226

Flutter analysis for control surface of launch vehicle with dynamic stiffness, Comput Struct 60(4) 593-599 (Jun 1996), 12A265

Role of eigenvectors in aeroelastic analysis, J Sound Vib 193(4) 934-940 (Jun 1996), 12A266

Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, JSME Int J Ser C 39(2) 203-211 (Jun 1996), 12A1020

166R. Buffeting, gust, and turbulence effects

Finite element modeling of transmission line galloping, Comput Struct 57(3) 407-420 (Nov 1995), 1A143

Improvement of transonic wing buffet by geometric modifications, J Aircraft 32(4) 901-903 (Aug 1995), 1T263

Matched-filter and stochastic-simulation-based methods of gust loads prediction, J Aircraft 32(5) 1047-1055 (Oct 1995), 2A198

Correlation of F/A-18 buffeting from wind-tunnel and flight tests, J Aircraft 32(6) 1351-1358 (Dec 1995), 5A229

Buffeting of a fin: Streamwise evolution of flow structure, J Aircraft 33(1) 185-190 (Feb 1996), 7A1153

Loading surface effect vehicle during flight over non-regular sea wave, Russian Aeronaut 38(2) 79-82 (1995), 8A230

Perturbation-based FE analyses of transmission line galloping, J Sound Vib 191(4) 469-489 (Apr 1996), 10A315

166T. Aeroelasticity (incl aerothermoelasticity)

Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series (Kluwer, MA, 1995) 1N11

Review of theoretical models for fluidelastic instability of cylinder arrays in cross-flow, J Fluids Struct 9(5) 463-518 (Jul 1995), 1A256

Parameter identification and modeling of longitudinal aerodynamics, J Aircraft 32(4) 726-731 (Aug 1995), 1A264

Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, J Fluids Struct 9(5) 539-562 (Jul 1995), 1T265

Design and examination of H_∞ robust controller for ground effect problem, J Guidance Control Dyn 18(4) 740-747 (Aug 1995), 1A379

Aeroelastic analysis of a flexible control surface with structural nonlinearity, J Aircraft 32(4) 868-874 (Aug 1995), 1A1109

Aeroelastic effects on the B-2 maneuver response, J Aircraft 32(4) 862-867 (Aug 1995), 1A1110

Aeroelastic actuation using elastic and induced strain anisotropy, J Aircraft 32(5) 1130-1137 (Oct 1995), 2A199

Dynamic design of a flutter model of airfoil (Chinese), J Vib Eng 8(2) 184-189 (Jun 1995), 3A222

Fluidelastic instability in a tube array subjected to two-phase R-11 cross-flow, J Fluids Struct 9(7) 747-771 (Oct 1995), 3A226

Aeroelastic analysis of multibladed hingeless rotors in hover, AIAA J 33(12) 2348-2353 (Dec 1995), 4A294

Transonic aeroelastic models of highly swept hypersonic lifting surfaces, J Aircraft 32(6) 1169-1176 (Dec 1995), 5A230

Aeroelastic optimization of a helicopter rotor with composite coupling, J Aircraft 32(6) 1326-1334 (Dec 1995), 5A1068

Flap-lag-torsion stability in hover and forward flight with 3D wake, AIAA J 34(1) 18-28 (Jan 1996), 6A222

Effect of damage growth on the aeroelastic response of composite structures, Mech Composite Mat Struct 2(4) 329-342 (Dec 1995), 6A661

Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, J Am Helicopter Soc 40(4) 3-17 (Oct 1995), 6A1035

Correlation of 2GCHAS analysis with experimental data, J Am Helicopter Soc 40(4) 18-33 (Oct 1995), 6A1036

Supression of nonlinear panel flutter at supersonic speeds and elevated temperatures, AIAA J 34(2) 347-354 (Feb 1996), 7A294

Aeroelastic behavior of composite plates subject to damage growth, J Aircraft 33(1) 68-73 (Feb 1996), 7A295

Aeroelastic model design using parameter identification, J Aircraft 33(1) 198-202 (Feb 1996), 7A296

Structural mechanics and strength of flight vehicles: Refining the numerical solution of aeroautoelasticity problem, Russian Aeronaut 38(2) 76-78 (1995), 8A231

Unconditional stable solutions of the Euler equations for 2D and 3D wings in arbitrary motion, Appl Math Mech 16(12) 1209-1220 (Dec 1995), 8A232

Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, J Aircraft 33(2) 322-330 (Apr 1996), 9A235

Acceleration techniques for an aeroelastic Euler method for a hovering rotor, J Aircraft 33(2) 429-434 (Apr 1996), 9A324

Analyse des interactions fluide-paroi dans un systeme ouvert a partir de la connaissance de la distribution des temps de sejour: Application aux depots d'aerosols par thermophorese (French), Appl Mech Eng 1(1) 5-24 (1995), 9A325

Wing-body aeroelasticity on parallel computers, J Aircraft 33(2) 421-428 (Apr 1996), 9A326

Aeroelastic optimization of a helicopter rotor with two-cell composite blades, AIAA J 34(4) 835-841 (Apr 1996), 9A1242

Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, Eng Struct 18(6) 399-411 (Jun 1996), 10A210

Flap efficiency and heating of a winged re-entry vehicle, J Spacecraft Rockets 33(2) 178-184 (Apr 1996), 10A316

Method for calculating an aerostatic support with a metallic membrane, J Machinery Manuf Reliab 6 19-22 (1995), 10A317

Problems of strength and aeroelasticity of state-of-the-art propfans, TsAGI 1(1) 117-128 (1994), 10A318

Secondary bifurcations and global instability of an aeroelastic nonlinear system in the divergence domain, J Sound Vib 191(3) 431-451 (Apr 1996), 10A319

Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, J Spacecraft Rockets 33(2) 169-177 (Apr 1996), 10A330

Analysis and compensation of numerical damping in a 1D aeroelastic problem, Int J Comput Fluid Dyn 6(2) 157-174 (1996), 11T227

Numerical approach to blade-vortex interaction in 2D viscous flow, J Aircraft 33(3) 642-644 (Jun 1996), 11T228

Numerical simulation of nonlinear interaction between the elastic shell and gas stream, Russian Aeronaut 38(3) 1-7 (1995), 11A229

Review of aeroelasticity methods with emphasis on turbomachinery applications, J Fluids Struct 10(3) 237-267 (Apr 1996), 11A230

Aeroelastic analysis of a flexible airfoil with freeplay nonlinearity, J Sound Vib 193(4) 823-846 (Jun 1996), 12A267

Aeroprediction code for angles of attack above 30 degrees, J Spacecraft Rockets 33(3) 366-373 (Jun 1996), 12A1172

Response of a tactical missile to convected aerodynamic excitation, J Spacecraft Rockets 33(3) 360-365 (Jun 1996), 12A1173

166Y. Computational techniques

Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, Int J Numer Methods Fluids 21(4) 295-310 (Aug 1995), 1A260

Transient analysis of artificial mechanical valve: Blood interaction, Appl Math Mech 16(5) 437-442 (May 1995), 1A1456

Further assessment of numerical procedures for the study of fluid-structure interaction, Strain 31(3) 107-112 (Aug 1995), 2A200

Variational FEM for stationary nonlinear fluid-solid interaction, J Comput Phys 121(2) 347-356 (Oct 1995), 2A201

Rayleigh-Ritz method in coupled fluid-structure interacting systems and its applications, J Sound Vib 186(4) 543-550 (Oct 1995), 3A218

Diffracted effects due to guided modes on finite (truncated) structure elements, J Acoust Soc Am 98(5) 2841-2844 (Nov 1995), 3A227

Symmetrization of equations of motion for coupled systems subject to fluid-structural interactions, Commun Numer Methods Eng 11(10) 831-838 (Oct 1995), 3A228

Fluid force activated spacecraft dynamics driven by gravity gradient and jitter accelerations, J Guidance Control Dyn 18(5) 1190-1196 (Oct 1995), 3T234

Fast vortex methods for predicting wind-induced pressures on buildings, J Wind Eng Indust Aerodyn 58(1-2) 51-79 (Oct 1995), 4T295

Numerical confirmation of the hysteresis phenomenon in the regular to the Mach reflection transition in steady flows, Shock Waves 5(4) 199-203 (Dec 1995), 5T222

Algorithm for permanent fluid-structure interaction in explicit transient dynamics, Comput Methods Appl Mech Eng 128(3-4) 231-289 (Dec 1995), 5A231

Fourier series expansion method for free vibration analysis of either a partially liquid-filled or a partially liquid-surrounded circular cylindrical shell, Comput Struct 58(5) 937-946 (Mar 1996), 5A232

Generalized Debye series expansion: Treatment of the concentric and nonconcentric cylindrical fluid-fluid interfaces, J Acoust Soc Am 98(6) 3326-3342 (Dec 1995), 5A233

Acoustic and flexural wave scattering from a three-member junction, J Acoust Soc Am 98(6) 3309-3319 (Dec 1995), 5A266

Simulation of DD-963 ship airwake by Navier-Stokes method, J Aircraft 32(6) 1399-1401 (Dec 1995), 5T1020

Free-Lagrange method for unsteady compressible flow: Simulation of a confined cylindrical blast wave, Shock Waves 5(5) 311-325 (Feb 1996), 7T297

Structural mechanics and strength of flight vehicles: Refining the numerical solution of aeroautoelasticity problem, Russian Aeronaut 38(2) 76-78 (1995), 8A231

Interactions of vortex-induced vibrations of a circular cylinder and a steady approach flow at a Reynolds number of 13,000, Comput Fluids 25(3) 283-294 (Mar 1996), 9A304
Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part 1: An introduction to numerical treatment, Eng Comput 12(8) 749-758 (Nov 1995), 9A327
Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part 2: Literature review on near-field and far-field fluid formulations, Eng Comput 12(8) 759-772 (Nov 1995), 9A328
Modal analysis of a structure in a compressible fluid using a FE-BE approach, J Acoust Soc Am 99(4) 1949-1957 (Apr 1996), 9A329
Time-domain analysis of low-speed airfoil flutter, AIAA J 34(5) 1027-1033 (May 1996), 10A314
Boundary element-finite element coupled eigenanalysis of fluid-structure systems, Int J Numer Methods Eng 39(10) 1625-1634 (May 1996), 10A320
Finite element analysis of fluid-structure interaction effect on liquid retaining structures due to sloshing, Comput Struct 59(6) 1165-1171 (Jun 1996), 10A321
Three-dimensional modeling of low velocity impact damage in composite laminates, Int J Numer Methods Eng 39(9) 1491-1516 (May 1996), 10A322
Numerical simulation of a self-sustained wake-edge interaction, J Fluids Struct 10(3) 215-236 (Apr 1996), 11T209
Analysis and compensation of numerical damping in a 1D aeroelastic problem, Int J Comput Fluid Dyn 6(2) 157-174 (1996), 11T227
Numerical simulation of nonlinear interaction between the elastic shell and gas stream, Russian Aeronaut 38(3) 1-7 (1995), 11A229
Wave propagation analysis for layered solid-fluid media in a gravity field using a thin-layered element and discrete wave number method (Japanese), Proc JSCE 537(1-35) 43-52 (Apr 1996), 11A231
Consistent infinitesimal FE cell method: 3D vector wave equation, Int J Numer Methods Eng 39(13) 2189-2208 (Jul 1996), 12A231

166Z. Experimental techniques

Estimation of flexible cylinder displacement in wave-basin experiments, Exp Mech 35(3) 233-244 (Sep 1995), 2A202
Pros and cons of transient waves, Appl Ocean Res 17(2) 91-92 (1995), 5A211
Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, J Acoust Soc Am 98(6) 3320-3325 (Dec 1995), 5A234
Experimental studies of dynamic behavior of gas liquid media in spherical shells under effect of vibration, Prikl Mekh (Appl Mech) 31(1) 68-73 (1995), 7A289
Shape and placement of piezoelectric sensors for panel flutter limit-cycle suppression, AIAA J 34(4) 855-857 (Apr 1996), 9T652
Improved interferometric techniques for measuring flextensional transducer vibration patterns underwater, J Sound Vib 193(4) 877-890 (Jun 1996), 12A316

168. ASTRONAUTICS (CELESTIAL AND ORBITAL MECHANICS)

Vortex shedding from bluff bodies and a universal Strouhal number, J Fluids Struct 10(2) 159-171 (Feb 1996), 9T330

168A. General theory

Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II (Am Astronaut Soc, Springfield VA, 1996) 6N7
Gravitational field of topographic-isostatic masses and the hypothesis of mass condensation - II: The topographic-isostatic geoid, Surveys Geophys 17(1) 41-66 (Jan 1996), 8A1329
Atmosphere and Earth's rotation, Surveys Geophys 17(1) 101-144 (Jan 1996), 8A1364
Modern Astrodynamics: Fundamentals and Perturbation Methods (Princeton UP, Princeton NJ, 1996) 10R7
Reduction, relative equilibria and potential in the two rigid bodies problem, Celest Mech Dyn Astron 63(1) 1-28 (1995), 10A323
Stability of the steady motions of a rigid body in a central field, J Appl Math Mech 59(6) 903-910 (1995), 12A94

168D. Celestial mechanics

Normal form for librational curves of the standard map, Meccanica 30(3) 251-260 (Jun 1995), 1A266
Redesign of the celestial pointing cone control gains for the Galileo spacecraft, J Spacecraft Rockets 32(4) 627-633 (Aug 1995), 1A267
Global flow of the hyperbolic restricted three-body problem, Arch Rational Mech Anal 131(4) 335-358 (1995), 3A229
Integrable cases of the general spatial three-body problem at third-order resonance, Celest Mech Dyn Astron 62(4) 323-334 (1995), 7A298
Planetary Data System, Planet Space Sci 44(1) 3-70 (Jan 1996), 8A233
Equilibrium configurations of the restricted problem of 2 + 2 triaxial rigid bodies, Celest Mech Dyn Astron 63(1) 81-100 (1995), 10A324

168G. Orbital mechanics

Gravitational perturbation spectrum in linear satellite theory, Celest Mech Dyn Astron 62(1) 1-22 (1995), 1A268
Long-periodic and secular perturbations to the orbit of a spherical satellite due to direct solar radiation pressure, Celest Mech Dyn Astron 62(1) 71-80 (1995), 1A269
Long-periodic and secular perturbations to the orbits of Explorer 19 and Lageos due to direct solar radiation pressure, Celest Mech Dyn Astron 62(1) 81-92 (1995), 1A270
Orbital acceleration research experiment: Calibration measurements, J Spacecraft Rockets 32(4) 619-626 (Aug 1995), 1A271
Solar-array-induced disturbance of the hubble space telescope pointing system, J Spacecraft Rockets 32(4) 634-644 (Aug 1995), 1A273
Dynamics of retrieval of a space tethered system, J Appl Math Mech 59(2) 165-173 (1995), 2A203
Elliptical orbit with variable angular momentum, J Guidance Control Dyn 18(5) 1213-1215 (Oct 1995), 3T230
New method for computing the spectrum of the gravitational perturbations on satellite orbits, Celest Mech Dyn Astron 62(2) 117-143 (1995), 3A231
Orbital strategies around a comet by means of a genetic algorithm, J Guidance Control Dyn 18(5) 1217-1220 (Oct 1995), 3T232
Unified Hamiltonian stability theory, Celest Mech Dyn Astron 62(2) 111-116 (1995), 3A233
Periodic and homoclinic orbits for Lorentz-Lagrangian systems via variational methods, Nonlinear Anal 26(3) 443-462 (Feb 1996), 4T296
Symmetric periodic orbits of the many-body problem: Resonance and parade of planets, J Appl Math Mech 59(3) 333-342 (1995), 4A297
Designing continuous-thrust low-Earth-orbit to geosynchronous-Earth-orbit transfers, J Spacecraft Rockets 32(6) 1033-1038 (Dec 1995), 5A235
Effects of general atmospheric perturbations on small debris particle orbits, J Spacecraft Rockets 32(5) 912-917 (Oct 1995), 5A236
Joint operations planning for the midcourse space experiment satellite, J Spacecraft Rockets 32(5) 812-816 (Oct 1995), 5A237
Limiting case for the motion of a rigid body about a fixed point in the Newtonian force field, Z Angew Math Mech 75(11) 821-829 (1995), 5A238
Mars Pathfinder six-dof entry analysis, J Spacecraft Rockets 32(6) 993-1000 (Dec 1995), 5A239
Maximum ΔV in the aerogravity assist maneuver, J Spacecraft Rockets 32(5) 921-922 (Oct 1995), 5T240
Space vehicle propulsion systems: Environmental hazards of low earth orbit-lunar domain, J Spacecraft Rockets 32(6) 1001-1005 (Dec 1995), 5A241
Stellar alignment of the high resolution Doppler image, J Spacecraft Rockets 32(6) 1039-1043 (Dec 1995), 5A242
Clementine attitude determination and control system, J Spacecraft Rockets 32(6) 1054-1059 (Dec 1995), 5A740
Depolyment mechanism for a large reflector: Thermal-design verification using flight data, J Spacecraft Rockets 32(5) 890-893 (Oct 1995), 5A743
In-orbit mission reconfiguration for Italsat system, J Spacecraft Rockets 32(6) 1027-1032 (Dec 1995), 5A747
Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II (Am Astronaut Soc, Springfield VA, 1996) 6N7
Hannay angles for relativistic polar orbits around an oblate spheroid, Celest Mech Dyn Astron 62(4) 395-406 (1995), 7A299
Link between the retrograde-prograde nutations and nutations in obliquity and longitude, Celest Mech Dyn Astron 62(4) 363-376 (1995), 7A300
Potential of attraction for an elliptic ring, Mech Res Commun 23(2) 111-116 (Apr 1996), 8T234
Approximate initial Lagrange costates for continuous-thrust spacecraft, J Guidance Control Dyn 19(2) 283-288 (Apr 1996), 8T307
Orbital planar maneuvers using two and three-four (through infinity) impulses, J Guidance Control Dyn 19(2) 274-282 (Apr 1996), 8T319
Modern Astrodynamics: Fundamentals and Perturbation Methods (Princeton UP, Princeton NJ, 1996) 10R7
Behavior of the SMF method for the numerical integration of satellite orbits, Celest Mech Dyn Astron 63(1) 29-40 (1995), 10A325
Separable and partially separable systems in the light of the inverse problem of dynamics, Celest Mech Dyn Astron 63(1) 41-57 (1995), 10A326
Numerical continuation of families of periodic orbits in a parametric potential, Mech Res Commun 23(3) 291-298 (Jun 1996), 11T232
Near-optimal highly robust guidance for aeroassisted orbital transfer, J Guidance Control Dyn 19(3) 549-556 (Jun 1996), 11A314
Variational solutions for the heat-rate-limited aeroassisted orbital transfer problem, J Guidance Control Dyn 19(3) 686-692 (Jun 1996), 11T320
Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93 (Univelt, San Diego, 1996) 12N10
Chaos in a spacecraft attitude maneuver due to time-periodic perturbations, J Appl Mech 63(2) 501-508 (Jun 1996), 12A268
Mars sample return: A direct and minimum-risk design, J Spacecraft Rockets 33(3) 381-385 (Jun 1996), 12A866

168K. Stability and control

Minimization of thermoelastic deformation in space structures undergoing periodic motion, J Spacecraft Rockets 32(4) 662-669 (Aug 1995), 1A272
Solar-array-induced disturbance of the hubble space telescope pointing system, J Spacecraft Rockets 32(4) 634-644 (Aug 1995), 1A273
Optimal modal-space controller for structural damping enhancements, J Guidance Control Dyn 18(4) 657-663 (Aug 1995), 1A380
Closed loop momentum transfer maneuvers using multiwheels, J Guidance Control Dyn 18(4) 867-874 (Aug 1995), 1T388
Controllability and optimization in aeroassisted orbital transfer, J Guidance Control Dyn 18(4) 911-913 (Aug 1995), 1T390
Estimation and control of tethered satellite systems, J Guidance Control Dyn 18(4) 851-858 (Aug 1995), 1T391
Evaluation of optimal-guidance algorithm for aeroassisted orbit transfer, J Guidance Control Dyn 18(4) 718-722 (Aug 1995), 1T392
Experimental application of an explicit optimal linear quadratic Gaussian controller, J Guidance Control Dyn 18(4) 674-677 (Aug 1995), 1A393
Optimal atmospheric trajectory for aerogravity assist with heat constraint, J Guidance Control Dyn 18(4) 723-730 (Aug 1995), 1T397
Optimal feedback guidance for low-thrust orbit insertion, Optimal Control Appl Methods 16(3) 155-173 (Sep 1995), 1A398
Optimal guidance of aeroassisted transfer vehicles based on matched expansions, J Guidance Control Dyn 18(4) 709-717 (Aug 1995), 1T399
Optimal low-thrust 3D earth-moon trajectories, J Guidance Control Dyn 18(4) 830-837 (Aug 1995), 1T400
Satellite autonomous navigation based on magnetic field measurements, J Guidance Control Dyn 18(4) 843-850 (Aug 1995), 1T402
Terminal spacecraft coplanar rendezvous control, J Guidance Control Dyn 18(4) 838-842 (Aug 1995), 1T403
U-parameter robust flight control design, J Guidance Control Dyn 18(4) 921-923 (Aug 1995), 1T404
Vibrations of the low power atmospheric compensation experiment satellite, J Guidance Control Dyn 18(4) 650-656 (Aug 1995), 1T405
Near-optimal 3D rotational maneuvers of spacecraft using manipulator arms, J Guidance Control Dyn 18(4) 932-934 (Aug 1995), 1T412
Linearized impulsive rendezvous problem, J Optim Theory Appl 86(3) 553-584 (Sep 1995), 2T204
Stochastic approach to the problem of spacecraft optimal maneuvers, J Brazilian Soc Mech Sci 16(3) 268-278 (1994), 2A205
Nutational stability and passive control of spinning rockets with internal mass motion, J Guidance Control Dyn 18(5) 1197-1203 (Oct 1995), 3T90
Spinup dynamics of gyrostats, J Guidance Control Dyn 18(5) 1177-1183 (Oct 1995), 3A91
Fluid force activated spacecraft dynamics driven by gravity gradient and jitter accelerations, J Guidance Control Dyn 18(5) 1190-1196 (Oct 1995), 3T234
Planning on the geostationary satellite orbit and perspectives of its utilization (Russian), Glas Tech Series 31 65-86 (1995), 3A235
Earth-to-moon transfer with a limited power engine, J Guidance Control Dyn 18(5) 1133-1138 (Oct 1995), 3A347
Fuel-optimal stationkeeping via differential inclusions, J Guidance Control Dyn 18(5) 1156-1162 (Oct 1995), 3T349
Near-minimum-time eigenaxis rotation maneuvers using reaction wheels, J Guidance Control Dyn 18(5) 1184-1189 (Oct 1995), 3A351
Optimal power-limited rendezvous with thrust saturation, J Guidance Control Dyn 18(5) 1145-1150 (Oct 1995), 3A353
Optimal station-change maneuver for geostationary satellites using constant low thrust, J Guidance Control Dyn 18(5) 1151-1155 (Oct 1995), 3T354
Dissipative controllers for nonlinear multibody flexible space structures, J Guidance Control Dyn 18(5) 1044-1052 (Oct 1995), 3A365
Modeling of translational motion between two flexible bodies connected via three points, J Guidance Control Dyn 18(6) 1392-1397 (Dec 1995), 4A110
Motion of a rigid body with an attached spring-mass damper, J Guidance Control Dyn 18(6) 1404-1409 (Dec 1995), 4A114
Influence of pinned joints on damping and dynamic behavior of a truss, J Guidance Control Dyn 18(6) 1398-1403 (Dec 1995), 4A190
Magnetic precession and product-of-inertia nutation damping of bias momentum satellites, J Guidance Control Dyn 18(6) 1321-1328 (Dec 1995), 4A298
Resonance capture in unbalanced dual-spin spacecraft, J Guidance Control Dyn 18(6) 1329-1335 (Dec 1995), 4T299
Smooth sliding-mode control for spacecraft attitude tracking maneuvers, J Guidance Control Dyn 18(6) 1345-1349 (Dec 1995), 4A300
Spacecraft attitude determination by Kalman filtering of global positioning system signals, J Guidance Control Dyn 18(6) 1365-1371 (Dec 1995), 4T301
Suboptimal command generation for control moment gyroscopes and feedback control of spacecraft, J Guidance Control Dyn 18(6) 1350-1354 (Dec 1995), 4A302
Quaternion nonlinear filter for estimation of rotating body attitude, Math Methods Appl Sci 18(15) 1239-1255 (Dec 1995), 4A340
Maximum-payload trajectories for a laser-propelled launch vehicle, J Guidance Control Dyn 18(6) 1259-1266 (Dec 1995), 4A365
Simple guidance method for single stage to low earth orbit, J Guidance Control Dyn 18(6) 1420-1426 (Dec 1995), 4T368
Comparative stability analysis and performance of magnetic controllers for bias momentum satellites, J Guidance Control Dyn 18(6) 1313-1320 (Dec 1995), 4A370
Feedback control logic for spacecraft eigenaxis rotations under slew rate and control constraints, J Guidance Control Dyn 18(6) 1372-1379 (Dec 1995), 4A373
Near-minimum-time maneuvers of large structures: Theory and experiments, J Guidance Control Dyn 18(6) 1380-1385 (Dec 1995), 4T375
Robust closed-loop control design for spacecraft slew maneuver using thrusters, J Guidance Control Dyn 18(6) 1336-1344 (Dec 1995), 4A379
Integrated controls-structures design methodology for flexible spacecraft, J Spacecraft Rockets 32(5) 839-844 (Oct 1995), 5A243
Simulation and Shuttle Hitchhiker validation of Passive Satellite Aerostabilization, J Spacecraft Rockets 32(5) 806-811 (Oct 1995), 5A244
Sloshing-induced moment driven by gravity gradient associated with spacecraft slew motion, J Spacecraft Rockets 32(5) 817-824 (Oct 1995), 5A245
Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II (Am Astronaut Soc, Springfield VA, 1996) 6N7
Double averaging approach to the study of spinup dynamics of flexible satellites, J Guidance Control Dyn 19(1) 54-59 (Feb 1996), 6A93
Atmospheric re-entry control for low lift-drag vehicles, J Guidance Control Dyn 19(1) 47-53 (Feb 1996), 6T223
Nonlinear control of dual-spin spacecraft during despin through precission phase lock, J Guidance Control Dyn 19(1) 60-67 (Feb 1996), 6A296
Deployment-retrieval control of a tethered subsatellite under effect of tether elasticity, J Guidance Control Dyn 19(1) 84-90 (Feb 1996), 6T308
Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, J Guidance Control Dyn 19(1) 141-149 (Feb 1996), 6A310
Nonlinear trajectory tracking guidance with application to a launch vehicle, J Guidance Control Dyn 19(1) 99-106 (Feb 1996), 6A315
Optimal power-limited rendezvous of a spacecraft with bounded thrust and general linear equations of motion, J Optim Theory Appl 87(3) 487-515 (Dec 1995), 6T317
Optimal time re-entry of vehicles by asymptotic matching, J Guidance Control Dyn 19(1) 223-230 (Feb 1996), 6A318
Strategic intercept midcourse guidance using modified zero effort miss steering, J Guidance Control Dyn 19(1) 107-112 (Feb 1996), 6T320
Hyperboloidal precession of a dynamically symmetric satellite construction of normal forms of the Hamiltonian, Celest Mech Dyn Astron 62(4) 289-304 (1995), 7A301
Formulation of stability conditions for systems containing driven rotors, J Guidance Control Dyn 19(2) 305-308 (Apr 1996), 8A151
Dynamics and stability of a frooly processing spacecraft containing a nutation damper, J Guidance Control Dyn 19(2) 297-304 (Apr 1996), 8A235
Near-optimal low-thrust lunar trajectories, J Guidance Control Dyn 19(2) 494-496 (Apr 1996), 8T236

Low-thrust flyby guidance and an extended optimal spacing rule, J Guidance Control Dyn 19(2) 347-354 (Apr 1996), 8T315
Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, Optimal Control Appl Methods 17(1) 45-69 (Mar 1996), 8T316
New approach to halo orbit determination and control, J Guidance Control Dyn 19(2) 266-273 (Apr 1996), 8A318
Phugoid motion for grazing-entry trajectories at near-circular speeds, J Spacecraft Rockets 33(2) 206-213 (Apr 1996), 10A327
Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, Int J Control 63(4) 641-678 (Mar 1996), 10A434
Detumbling and reorienting underactuated rigid spacecraft, J Guidance Control Dyn 19(3) 708-713 (Jun 1996), 11T233
Scanning horizon sensor attitude correction for earth oblateness, J Guidance Control Dyn 19(3) 706-708 (Jun 1996), 11T234
Stability analysis on earth observing system AM-1 spacecraft earth acquisition, J Guidance Control Dyn 19(3) 512-519 (Jun 1996), 11T235
Spacecraft Euler parameter tracking of large-angle maneuvers via sliding mode control, J Guidance Control Dyn 19(3) 702-703 (Jun 1996), 11T302
Adaptive orbit determination for interplanetary spacecraft, J Guidance Control Dyn 19(3) 693-701 (Jun 1996), 11A305
Analytical solution of generalized 3D proportional navigation, J Guidance Control Dyn 19(3) 721-724 (Jun 1996), 11T307
Exponential criterion-based guidance law for acceleration constrained missile and maneuvering target, J Guidance Control Dyn 19(3) 718-721 (Jun 1996), 11T308
Minimizing interceptor size using neural networks for terminal guidance law synthesis, J Guidance Control Dyn 19(3) 557-562 (Jun 1996), 11T312
Near-optimal highly robust guidance for aeroassisted orbital transfer, J Guidance Control Dyn 19(3) 549-556 (Jun 1996), 11A314
Parametric robustness evaluation of a H_∞ missile autopilot, J Guidance Control Dyn 19(3) 621-627 (Jun 1996), 11A315
Control of Tethered Satellite Systems using thruster and offset strategies, Int J Control 64(2) 175-193 (May 1996), 11A321
H_{2g} control of an earth observation satellite, J Guidance Control Dyn 19(3) 628-635 (Jun 1996), 11T328
Attitude determination and control of Clementine during Lunar mapping, J Guidance Control Dyn 19(3) 505-511 (Jun 1996), 11A356
Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93 (Univelt, San Diego, 1996) 12N10
Motion of a spacecraft with magnetic damper, J Guidance Control Dyn 19(4) 980-982 (Aug 1996), 12T269
Dynamic boundary evaluation method for approximate optimal lunar trajectories, J Guidance Control Dyn 19(4) 976-978 (Aug 1996), 12T349
Adaptive attitude control for an artificial satellite with mobile bodies, J Guidance Control Dyn 19(4) 948-953 (Aug 1996), 12A380
Attitude control for low lift-drag re-entry vehicles, J Guidance Control Dyn 19(4) 816-822 (Aug 1996), 12T381
Compact finite burn targeting and reconstruction algorithm, J Guidance Control Dyn 19(4) 801-807 (Aug 1996), 12T382
Motion control of free-floating variable geometry truss - Part I: Kinematics, J Guidance Control Dyn 19(4) 756-763 (Aug 1996), 12A386
Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, J Guidance Control Dyn 19(4) 764-771 (Aug 1996), 12A387
On-orbit thruster calibration, J Guidance Control Dyn 19(4) 934-940 (Aug 1996), 12T389
Stabilization and optimality results for the attitude control problem, J Guidance Control Dyn 19(4) 772-779 (Aug 1996), 12A391
Transfer orbits in the earth-moon system using a regularized model, J Guidance Control Dyn 19(4) 929-933 (Aug 1996), 12T392
Derivation of zero-gravity structural control models from analysis and ground experimentation, J Guidance Control Dyn 19(4) 787-793 (Aug 1996), 12T402
Fuel-efficient pulse command profiles for flexible spacecraft, J Guidance Control Dyn 19(4) 954-960 (Aug 1996), 12A405
Optimal sensor placement of large flexible space structures, J Guidance Control Dyn 19(4) 961-963 (Aug 1996), 12T411

168P. Other topics in astronautics

Baffle effect on sloshing-modulated torques responsed to orbital accelerations in microgravity, J Spacecraft Rockets 32(4) 723-731 (Aug 1995), 1A248
Pitch analysis of a space module after water landing, J Spacecraft Rockets 32(4) 601-607 (Aug 1995), 1A254
Hamiltonian description of streamline formalism with application in planetary rings, Celest Mech Dyn Astron 62(1) 99-109 (1995), 1A274
Metal-oxide-silicon capacitor detectors for measuring micrometeoroid and space-debris flux, J Spacecraft Rockets 32(4) 710-718 (Aug 1995), 1A275
Rotating unbalanced-mass devices for scanning: Proof-of-concept test results, J Spacecraft Rockets 32(4) 732-733 (Aug 1995), 1T276
VLF wave experiments in space using a modulated electron beam, J Spacecraft Rockets 32(4) 670-679 (Aug 1995), 1A277
Thermal-vacuum response of polymer matrix composites in space, J Spacecraft Rockets 32(4) 703-709 (Aug 1995), 1A573
Application of accelerated interative methods for solution of thermal models of spacecraft, J Spacecraft Rockets 32(4) 608-611 (Aug 1995), 1A921
Weld joint design for EVA repair of on-orbit fluid systems, J Aerospace Eng 8(4) 165-174 (Oct 1995), 2A206
Space vehicle propulsion systems: Environmental hazards of low earth orbit-lunar domain, J Spacecraft Rockets 32(6) 1001-1005 (Dec 1995), 5A241
Contamination and space environmental effects on solar cells and thermal control surfaces, J Spacecraft Rockets 32(5) 850-855 (Oct 1995), 5A246
Debris-cloud collision risk analysis: Polar-platform case study, J Spacecraft Rockets 32(5) 905-911 (Oct 1995), 5A247
Effect of atmospheric processes on launch decisions, J Spacecraft Rockets 32(5) 801-805 (Oct 1995), 5A248
Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, J Spacecraft Rockets 32(5) 878-884 (Oct 1995), 5A249
Investigation of microwave attenuation measurements in a laboratory-scale rocket motor plume, J Spacecraft Rockets 32(5) 923-925 (Oct 1995), 5T250
Ionosphere ionization effects on sheath structure around a high-voltage spacecraft, J Spacecraft Rockets 32(6) 1018-1026 (Dec 1995), 5A251
Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, J Spacecraft Rockets 32(6) 1015-1017 (Dec 1995), 5A252
Low-energy neutral-atom imaging techniques for remote observations of the magnetosphere, J Spacecraft Rockets 32(5) 899-904 (Oct 1995), 5A253
Charged-particle telescope experiment on Clementine, J Spacecraft Rockets 32(6) 1060-1064 (Dec 1995), 5A739
Clementine dosimetry, J Spacecraft Rockets 32(6) 1065-1070 (Dec 1995), 5A741
Clementine engineering experiments program, J Spacecraft Rockets 32(6) 1045-1048 (Dec 1995), 5A742
Single-event upset effects on the Clementine solid-state data recorder, J Spacecraft Rockets 32(6) 1071-1076 (Dec 1995), 5A752
Spacecraft autonomous operations experiment performed during the Clementine lunar mission, J Spacecraft Rockets 32(6) 1049-1053 (Dec 1995), 5A754
Thermo-optical property degradation of irradiated spacecraft surfaces, J Spacecraft Rockets 32(5) 832-838 (Oct 1995), 5A757
Mechanical and load-settlement characteristics of two lunar soil simulants, J Aerospace Eng 9(1) 1-9 (Jan 1996), 6A224
Heat capacity of confined helium very near the lambda point, J Spacecraft Rockets 33(1) 154-159 (Feb 1996), 7A302
Systems design of a satellite link protocol, J Spacecraft Rockets 33(1) 45-48 (Feb 1996), 7A303
Thunderstorm III 4-megahertz burst-mode data acquisition system, J Spacecraft Rockets 33(1) 92-95 (Feb 1996), 7A304
Trapped-electron fluxes measured by international ultraviolet explorer and AE-8 model predictions, J Spacecraft Rockets 33(1) 167-168 (Feb 1996), 7T305
Versatile fluid-mixing device for cell and tissue microgravity research applications, J Spacecraft Rockets 33(1) 126-130 (Feb 1996), 7A306
Aerothermal study of Mars Pathfinder aeroshell, J Spacecraft Rockets 33(1) 61-69 (Feb 1996), 7A985
Analysis of the Solwind fragmentation event using theory and computations, J Spacecraft Rockets 33(1) 79-85 (Feb 1996), 7A986
Atomspheric research with the small expendable deployer system: Preliminary analysis, J Spacecraft Rockets 33(1) 70-78 (Feb 1996), 7A988
Spacecraft interaction with atmospheric species in low Earth orbit, J Spacecraft Rockets 33(1) 131-136 (Feb 1996), 7A990
Local effects of solid rocket motor exhaust on stratospheric ozone, J Spacecraft Rockets 33(1) 144-153 (Feb 1996), 7A1345
Planetary Data System, Planet Space Sci 44(1) 3-70 (Jan 1996), 8A233
Modeling of sloshing modulated angular momentum fluctuations actuated by gravity gradient associated with spacecraft slew motion, Appl Math Model 20(5) 399-409 (May 1996), 10A303
Effects on operations of highly adaptive missions, J Spacecraft Rockets 33(2) 298-304 (Apr 1996), 10A328
Gravitational effects on closed-cellular-foam microstructure, J Spacecraft Rockets 33(2) 267-271 (Apr 1996), 10A329
Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, J Spacecraft Rockets 33(2) 169-177 (Apr 1996), 10A330
Space-debris identification using optical calibration of common spacecraft materials, J Spacecraft Rockets 33(2) 262-266 (Apr 1996), 10A331
Mass-diameter and characteristic-length ratio functions for orbital debris, J Spacecraft Rockets 33(3) 433-437 (Jun 1996), 12A270
Data analysis and model comparison for solar array module plasma interactions experiment, J Spacecraft Rockets 33(3) 438-446 (Jun 1996), 12A862

168Y. Computational techniques

Hamiltonian perturbation theory on a manifold, Celest Mech Dyn Astron 62(1) 43-69 (1995), 1A108
Inverse problem of dynamics: Basic facts, Inverse Prob 11(4) 687-708 (Aug 1995), 1A278
Nonlinear oscillations of reversible systems, J Appl Math Mech 59(1) 35-45 (1995), 1A279
Reconstruction of blurred orbits under finite resolution, Appl Math Comput 71(2-3) 227-245 (Sep 1995), 1A280
Singularly weighted symplectic forms and applications to asteroid motion, Celest Mech Dyn Astron 62(1) 23-41 (1995), 1A281
Derivative of Kaula's inclination function, Celest Mech Dyn Astron 62(2) 183-189 (1995), 3A236
High-eccentricity libration theory revisted, Celest Mech Dyn Astron 62(2) 145-165 (1995), 3A237
Integral surfaces with space-time coordinates, in the gravitational field of a rotating system, Celest Mech Dyn Astron 62(3) 263-287 (1995), 3A238
Numerical continuation of families of frozen orbits in the zonal problem of artificial satellite theory, Celest Mech Dyn Astron 62(2) 167-181 (1995), 3A239
Stability of the planetary three-body problem - I: Expansion of the planctary Hamiltonian, Celest Mech Dyn Astron 62(3) 193-217 (1995), 3A240
Stability of the planetary three-body problem - II: KAM theory and existence of quasiperiodic motions, Celest Mech Dyn Astron 62(3) 219-261 (1995), 3A241
Experimental satellite trajectory analysis using decision-based robust design, J Guidance Control Dyn 18(5) 1126-1132 (Oct 1995), 3A348
Expansions of the elliptic motion to high eccentricities, Celest Mech Dyn Astron 62(4) 305-321 (1995), 7A307
Search for collision orbits in the free-fall three-body problem - I: Numerical procedure, Celest Mech Dyn Astron 62(4) 335-362 (1995), 7A308
Existence of formal integrals of symplectic integrators, Celest Mech Dyn Astron 63(1) 113-123 (1995), 10A332
Horseshoes and nonintegrability in the restricted case of a spinless axisymmetric rigid body in a central gravitational field, Celest Mech Dyn Astron 63(1) 59-79 (1995), 10A333
Kepler equation solver, Celest Mech Dyn Astron 63(1) 101-111 (1995), 10A334

170. EXPLOSIONS AND BALLISTICS

170C. Explosion, detonation, deflagration

Influence of pressure waves on the initial development of an explosion kernel, AIAA J 33(9) 1651-1658 (Sep 1995), 2A207
Transition to detonation in vented hydrogen-air explosions, Combust Flame 103(3) 243-246 (Nov 1995), 3A242
Nonintrusive stabilization of a conical detonation wave for supersonic combustion, Combust Flame 103(4) 281-295 (Dec 1995), 5A1235
Analysis of initiation of detonation process in a system comprising an explosively loaded elastic partition, J Tech Phys 36(3) 333-350 (1995), 6A225
Deflagration to detonation transition in large confined volume of lean hydrogen-air mixtures, Combust Flame 104(1-2) 95-110 (Jan 1996), 7A309
Modeling flows with curved detonation waves, Combust Flame 104(3) 219-240 (Feb 1996), 8A237
Nitramine deflagration: Reduced chemical mechanism for primary flame facilitating simplified asymptotic analysis, J Propulsion Power 12(2) 302-309 (Apr 1996), 8A238
Effect of confinement and thermal cycling on the shock initiation of LX-17, Combust Flame 105(1-2) 43-53 (Apr 1996), 9A331
Investigations of the combustion products of aluminum in explosion processes, J Tech Phys 36(4) 401-419 (1995), 9A332
Shock initiation of a heated ammonium perchlorate-based propellant, Combust Flame 105(1-2) 123-131 (Apr 1996), 9A333
Theoretical determination of the critical conditions for the direct initiation of detonations in hydrogen-oxygen mixtures, Combust Flame 104(4) 401-418 (Mar 1996), 9A334
Joints of steel-brass one-side welded by explosive method, Acta Phys Polonica A 89(3) 411-415 (Mar 1996), 9A718
Influence of formation processes on oblique detonation wave stabilization, J Propulsion Power 12(3) 509-517 (Jun 1996), 11A236

170L. Guns, ballistics

Flow simulation and drag anatomy for antitank projectile configurations, J Spacecraft Rockets 32(6) 1079-1081 (Dec 1995), 5T254
Kill probability in antiaircraft firing theory, J Aircraft 32(6) 1396-1399 (Dec 1995), 5T255
Finite element analysis of the scramaccelerator with hydrogen-oxygen combustion, J Propulsion Power 12(2) 336-340 (Apr 1996), 8A239
Ram accelerator utilizing active projectile, J Propulsion Power 12(2) 328-335 (Apr 1996), 8A240
Numerical simulation of the blast-wave accelerator, AIAA J 34(7) 1341-1347 (Jul 1996), 12A254

170P. Other topics in explosions and ballistics

Impact of thin-walled projectiles with concrete targets, Shock Vib 2(5) 355-364 (1995), 1A216
Study of the fast reaction characteristics of aluminized PETN explosive powders, Combust Flame 105(3) 428-430 (May 1996), 10A335

170Y. Computational techniques

Method of fundamental solutions for nonlinear thermal explosions, Commun Numer Methods Eng 11(8) 675-681 (Aug 1995), 1A282
Feasibility of using smoothed particle hydrodynamics for underwater explosion calculations, Comput Mech 17(3) 151-168 (Dec 1995), 6A226
Spike-nosed projectiles with vortex rings: Steady and nonsteady flow simulations, J Spacecraft Rockets 33(1) 8-14 (Feb 1996), 7A1085
Three-dimensional simulation of underwater explosion bubble, Chinese J Aeronaut 9(1) 38-42 (Feb 1996), 10A1127

172. ACOUSTICS

172A. General theory

Problem of source modeling, Arch Acoust 20(1) 27-37 (1995), 1A283
Lord Rayleigh's contributions to musical acoustics, J Acoust Soc Am 98(5) 2406-2412 (Nov 1995), 3A243
Nonlinear standing waves: Theory and experiments, J Acoust Soc Am 98(5) 2753-2763 (Nov 1995), 3A244
Temperature dependence of the ultrasonic Gruneisen parameter and ultrasonic attenuation in pure germanium, Acoust Lett 18(8) 146-150 (Feb 1995), 3A245
Flow Noise Modeling, Measurement and Control, NCA-Vol 19-FED-Vol 230 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 4N6
Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N7
Acoustic diagnostic analysis using BEs, Boundary Elements Comm 6(6) 247-251 (Nov 1995), 6A40
Fluctuation theory of thermal acoustic radiation, J Acoust Soc Am 99(1) 65-71 (Jan 1996), 6A227
Use of a *virtual machine* to gauge the level of complaint to be expected from a proposed generating set, J Sound Vib 190(2) 283-287 (Feb 1996), 7T310

Human-response effects of impulse noise, J Sound Vib 190(3) 525-543 (Feb 1996), 8A241
Special issue on acoustics: Indianapolis meeting May 13-17, 1996, J Acoust Soc Am 99(3) 1284-1796 (Mar 1996), 8A242
Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics (AIP, Woodbury, NY, 1996) 9N20
Audible noise of transmission lines caused by the corona effect: Analysis, modeling, prediction, Appl Acoust 47(2) 149-163 (1996), 9A335
Reactive acoustic intensity for general fields and energy polarization, J Acoust Soc Am 99(4) 1868-1876 (Apr 1996), 9A337
Surface acoustic wave measurements of evaporation rate, Appl Acoust 47(2) 121-127 (1996), 9A338
Annoyance caused by noise from heavy weapon shooting ranges, J Sound Vib 192(1) 199-206 (Apr 1996), 10A336
Nonlinear interaction of two plane waves in a viscous medium, J Acoust Soc Am 99(5) 2783-2790 (May 1996), 10A337
Experiments on ion-acoustic waves in dusty plasmas, Planet Space Sci 44(3) 239-242 (Mar 1996), 10A1185
Circumventing space sampling limitations in mechanical vibrations, Meccanica 31(2) 163-176 (Apr 1996), 11A99
Acoustic levitation: A comprehensive survey of principles and applications (German), Acustica 82(2) 220-237 (Apr 1996), 11A237
Double couple radiation pattern in acoustics - Part I: A nonlocal theory of radiation, Mec Appl 40(4-6) 467-477 (Dec 1995), 11A238
Nonlinear propagation and distortion of two plane waves interacting at arbitrary angles, Acustica 82(2) 213-219 (Apr 1996), 11A239
Parameter of nonlinearity B/A in saccharide solutions (French), Acustica 82(2) 268-273 (Apr 1996), 11A240
Penetration depth of Rayleigh surface waves, Acustica 82(2) 380-382 (Apr 1996), 11T241
Sound radiation from a cylindrical duct - Part 2: Source modeling, nil-shielding directions, and the open-to-ducted transfer function, J Fluid Mech 313 367-380 (Apr 1996), 11A246
Experimental study of the conversion of Lamb waves at the end of an immersed plate, Acustica 82(2) 251-259 (Apr 1996), 11A257
Influence of phase between original frequencies on the nonlinear generation of new harmonics: Examples of application from nonlinear acoustics, J Acoust Soc Am 99(6) 3329-3333 (Jun 1996), 12A271
Strongly nonlinear waves and streaming in the near field of a circular piston, J Acoust Soc Am 99(6) 3353-3372 (Jun 1996), 12A272

172B. Sound generation by moving surfaces

Effect of mean flow on responses of a fluid-loaded plate, J Acoust Soc Am 98(3) 1786-1795 (Sep 1995), 1A284
Effects of blade design on centrifugal fan noise and performance, Noise Control Eng J 43(4) 91-101 (Aug 1995), 1A285
Influence of curvature on the sound radiated by vibrating panels, J Acoust Soc Am 98(3) 1581-1595 (Sep 1995), 1A286
Nonlinear oscillations in a resonant gas column: An initial-boundary-value study, SIAM J Appl Math 55(4) 923-951 (Aug 1995), 1A287
Radiation modes of baffled finite plates, J Acoust Soc Am 98(3) 1570-1580 (Sep 1995), 1A288
Search for simple models to predict fan performance and noise, Noise Control Eng J 43(4) 85-89 (Aug 1995), 1A289
Transient analysis of the transmitting properties of a focused acoustic transducer with an arbitrary rim, J Acoust Soc Am 98(3) 1767-1777 (Sep 1995), 1A290
Unstructured adaptive mesh computations of rotorcraft high-speed impulsive noise, J Aircraft 32(4) 754-760 (Aug 1995), 1A291
Design of low-noise centrifugal blowers - Part 1: Measurement and analysis procedures, Noise Control Eng J 43(4) 103-116 (Aug 1995), 1A945
Design of low-noise centrifugal blowers - Part 2: Optimization study, Noise Control Eng J 43(4) 117-127 (Aug 1995), 1A946
Computation of helicopter rotor acoustics in forward flight, J Am Helicopter Soc 40(3) 66-72 (Jul 1995), 1A1132
Computational Aeroacoustics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N35
Acoustics of a counter-rotating shrouded propfan: Prediction and data, J Aircraft 32(5) 993-1000 (Oct 1995), 2A208
De-Dopplerization of aircraft acoustic signals, J Aircraft 32(5) 1012-1017 (Oct 1995), 2A209
Multiple scales approach to sound generation by vibrating bodies, J Sound Vib 185(5) 767-790 (Sep 1995), 2A210
Vibration and sound radiation of non-uniform beams, J Sound Vib 185(5) 827-843 (Sep 1995), 2A211
Aerodynamics and acoustics of rotor blade-vortex interactions, J Aircraft 32(5) 970-977 (Oct 1995), 2A1046
Acoustic radiation efficiency of a rectangular plate with different boundary conditions, Struct Eng Review 7(1) 41-55 (Feb 1995), 3A246
Effects of panel boundedness on sound transmission problems, J Acoust Soc Am 98(5) 2598-2606 (Nov 1995), 3A247
Interaction between sound and circulatory fluid motion as a problem in matched expansions, IMA J Appl Math 55(2) 163-186 (1995), 3A248
Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, J Acoust Soc Am 98(4) 2303-2323 (Dec 1995), 3A249
Resonant transmission of a 3D acoustic sound beam through a solid plate in air: Theory and measurement, J Acoust Soc Am 98(5) 2628-2638 (Nov 1995), 3A250
Sound field generated by a pair of circular cylinders moving in unsteady rectilinear motion, Quart J Mech Appl Math 48(4) 483-505 (Nov 1995), 3A251
Vibration and sound radiation of a cylindrical shell under a circumferentially moving load, J Acoust Soc Am 98(4) 2165-2173 (Dec 1995), 3A252
Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics (Elsevier Sci, New York, 1994) 4R4
Analysis of the near field acoustic radiation characteristics of two radially vibrating spheres by the Helmholtz integral equation formulation and a critical study of the efficacy of the "chief" overdetermination method in two-body problems, J Sound Vib 187(5) 781-798 (Nov 1995), 4A303
Prediction of the effects of entropy fluctuations on sound radiation from vibrating bodies using an integral equation approach, J Sound Vib 186(5) 805-819 (Oct 1995), 4A304
Fundamental structural-acoustic idealizations for structures with fuzzy internals, J Vib Acoust 117(3(A)) 339-348 (Jul 1995), 5A256
Sound radiation by a baffled shell: Comparison of the exact and an approximate solution, J Sound Vib 188(1) 111-130 (Nov 1995), 5A257
Weakly nonlinear waves and acoustic streaming produced by a vibrating strip flush with a plane wall, J Acoust Soc Am 98(6) 3443-3455 (Dec 1995), 5A258
Energy density equations and power flow in structures, J Sound Vib 188(2) 269-282 (Nov 1995), 6A51
Envelope energy model for high frequency dynamic structures, J Sound Vib 188(2) 283-295 (Nov 1995), 6A52
Ray tracing over smooth elastic shells of arbitrary shape, J Acoust Soc Am 99(1) 55-64 (Jan 1996), 6A212
Analysis of free vibration of structural-acoustic coupled systems - Part I: Development and verification of the procedure, J Sound Vib 188(4) 561-575 (Dec 1995), 6A228
Analysis of free vibration of structural-acoustic coupled systems - Part II: 2D and 3D examples, J Sound Vib 188(4) 577-600 (Dec 1995), 6A229
Angle-time-frequency resolution of the noise field generated by wind-induced breaking waves, J Acoust Soc Am 99(1) 209-222 (Jan 1996), 6A230
Importance of representative structural models in turboprop acoustics, J Sound Vib 188(5) 753-759 (Dec 1995), 6T231
Influence of stiffness and boundary conditions of thin rectangular plates on radiated acoustic power, Appl Acoust 46(4) 345-362 (1995), 6A232
Sound field due to a periodic array of forced wave-bearing strips, IMA J Appl Math 55(3) 303-315 (1995), 6T233
Sound radiation by a cylindrical piezoelastic shell with an asymmetric insertion, J Acoust Soc Am 99(1) 133-138 (Jan 1996), 6A234
Computer-aided design of acoustic horns for ultrasonic machining using FE analysis, J Mat Processing Tech 55(3-4) 254-260 (Dec 1995), 7A33
Acoustic scattering from a rough circular disk, J Acoust Soc Am 99(2) 672-681 (Feb 1996), 7A311
Effects of asymmetric inflow on near-field propeller noise, AIAA J 34(2) 251-258 (Feb 1996), 7A312
Effects of ingested atmospheric turbulence on measured tail rotor acoustics, J Am Helicopter Soc 41(1) 77-90 (Jan 1996), 7A313
Nonaxisymmetric acoustic field excited by a cylindrical tool placed off a borehole axis and extraction of shear wave, J Acoust Soc Am 99(2) 682-690 (Feb 1996), 7A314
Radiation force on a spherical object in an axisymmetric wave field and its application to the calibration of high-frequency transducers, J Acoust Soc Am 99(2) 713-724 (Feb 1996), 7A315
Structural and acoustic response of mass-spring loaded cylindrical shells: Spectral formulation and ray synthesis, J Acoust Soc Am 99(2) 659-671 (Feb 1996), 7A316
Analysis of aerodynamic noise by distributed monopole method, JSME Int J Ser B 39(1) 86-94 (Feb 1996), 7T323
Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), Proc JSCE 529(III-33) 19-28 (Dec 1995), 7T712
Railway noise: Can random sleeper spacings help?, Acustica 81(6) 559-564 (Dec 1995), 7A972
Study of the forced response of a clamped circular plate coupled to a uni-dimensional acoustic cavity, J Sound Vib 190(4) 661-675 (Mar 1996), 8A119
Focusing of helicopter BVI noise, J Sound Vib 190(3) 477-494 (Feb 1996), 8A243
Open grid bridge noise from grid and tire vibrations, J Sound Vib 190(3) 317-343 (Feb 1996), 8A244
Acoustic properties of an infinite elastic plate backed by multiple layers, Acustica 82(1) 45-53 (Feb 1996), 9A339
Acoustic radiation prediction of a compressor housing from 3D experimental spatial dynamics modeling, Appl Acoust 47(2) 165-185 (1996), 9A340
Improvement of the STI of multiple loudspeakers in long enclosures by architectural treatments, Appl Acoust 47(2) 129-148 (1996), 9A341
Line admittance at the junction of two plates with and without fluid loading, J Sound Vib 191(1) 29-51 (Mar 1996), 9A342
Structure-born sound transmission between thin orthotropic plates: Analytical solutions, J Sound Vib 191(1) 75-90 (Mar 1996), 9A343
Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feed-forward control, JSME Int J Ser C 39(1) 49-57 (Mar 1996), 9A370
Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, J Sound Vib 191(5) 881-899 (Apr 1996), 10A123
Vibrational energy flows between coupled membranes, J Sound Vib 192(1) 139-158 (Apr 1996), 10A170
Assessment of the effects of in-plane vibrations on the energy flow between coupled plates, J Sound Vib 191(5) 661-680 (Apr 1996), 10A171
New analysis method for general acoustic-structural coupled systems, J Sound Vib 192(2) 465-480 (May 1996), 10A338
New pipe and horn modeling, Acoust Lett 19(1) 1-10 (Jul 1995), 10A339
Predicting a noise level of rotating propeller with blades of an arbitrary form, TsAGI 1(1) 95-107 (1994), 10A340
Study of noise on a small-scale hovering tilt rotor, J Am Helicopter Soc 41(2) 27-36 (Apr 1996), 10A341
Spatial transformation of the discrete sound field from a propeller, AIAA J 34(6) 1097-1102 (Jun 1996), 11A242
Theoretical analysis of tone noise generated by a shrouded tail rotor in forward flight (French), Acustica 82(2) 238-250 (Apr 1996), 11A243
Launch vehicle acoustics - Part 1: Overall levels and spectral characteristics, J Aircraft 33(3) 511-517 (Jun 1996), 11A798
Launch vehicle acoustics - Part 2: Statistics of the time domain data, J Aircraft 33(3) 518-523 (Jun 1996), 11A799
Fifth international workshop on tracked transit system noise, 1995: A summary of conclusions, J Sound Vib 193(1) 3-452 (May 1996), 12A201
Application of normal mode expansion to acoustic emission waves in finite plates, J Appl Mech 63(2) 555-557 (Jun 1996), 12T273
Sound energy flow in the acoustic near field of a vibrating plate, Mech Syst Signal Processing 10(3) 351-364 (May 1996), 12A274

172C. Sound generation by flow

Analysis of inertance due to the higher order mode effects in a sudden area discontinuity, J Sound Vib 185(3) 515-529 (Aug 1995), 1A292
Boundary element scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, J Sound Vib 185(1) 107-117 (Aug 1995), 1A293
Damping of sound by wall turbulent shear layers, J Acoust Soc Am 98(3) 1723-1730 (Sep 1995), 1A294
Effect of solid surfaces on turbulent jet noise, J Sound Vib 185(3) 397-413 (Aug 1995), 1A295
Experimental and numerical studies of the aeroacoustics of axisymmetric supersonic inlets, J Sound Vib 184(5) 853-870 (Aug 1995), 1A296
Experimental investigation of flow-induced acoustic oscillations in a piping system with closed branches, Appl Acoust 45(4) 359-375 (1995), 1A297
Free-field sound power levels of open-inlet and open-outlet fans and comparison with in-duct measurements, Noise Control Eng J 43(4) 129-143 (Aug 1995), 1A298
Selection of a suitable wall pressure spectrum model for estimating flow-induced noise in sonar applications, Shock Vib 2(5) 403-412 (1995), 1A299
Acoustic absorption in ducts with an actively controlled wall admittance (German), Acustica 81(4) 356-363 (Aug 1995), 2A212
Aspects of tuning and clean intonation in reed instruments, Appl Acoust 46(1) 19-60 (1995), 2A213
Designing a guitar family, Appl Acoust 46(1) 3-17 (1995), 2A214
Documentation of the sound of a historical pipe organ, Appl Acoust 46(1) 61-82 (1995), 2A215
Lighthill relationship and sound generation from isotropic turbulence, Theor Comput Fluid Dyn 7(5) 355-361 (1995), 2A216
Supersonic jet noise, Annu Rev Fluid Mech 27 17-43 (1995), 2A217
Note on the aeroacoustic source character of in-duct axial fans, J Sound Vib 186(4) 589-598 (Oct 1995), 3A253
Spatial coherence of a sound field in a refractive shadow: Comparison of simulation and experiment, J Acoust Soc Am 98(4) 2289-2302 (Dec 1995), 3A254
Maximum sound power from in-duct sources with applications to fans, J Sound Vib 187(3) 543-550 (Nov 1995), 4T305
Method to predict sound levels from hydrodynamic sources associated with flow through throttling valves, Noise Control Eng J 43(5) 145-158 (Oct 1995), 4A306
Sound generated from the interaction of two inviscid coaxial vortex rings moving in the same direction, J Sound Vib 187(2) 287-310 (Oct 1995), 4A307
Thermoacoustic oscillations in combustion chambers of gas turbines, AIAA J 33(12) 2280-2287 (Dec 1995), 4A308
Toward the direct calculation of noise: Fluid-acoustic coupled simulation, AIAA J 33(12) 2271-2279 (Dec 1995), 4A309
Evaluation of boundary conditions for computational aeroacoustics, AIAA J 33(11) 2006-2012 (Nov 1995), 4A327
Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), Proc JSCE 525(I-33) 171-179 (Oct 1995), 5A259
Experiments on response of impinging-jet edge tone to edge misalignment and spanwise coherence of the jet, J Sound Vib 188(1) 3-16 (Nov 1995), 5A260
Unsteady isentropic flow through ducts with prescribed sound pressure level distribution, J Vib Acoust 117(3(A)) 279-284 (Jul 1995), 5A261
Snoring: Linear stability analysis and *in vitro* experiments, J Sound Vib 188(1) 39-54 (Nov 1995), 5A1366
Effects of nozzle body on jet noise, J Sound Vib 188(3) 407-418 (Dec 1995), 6A235
Sound-production mechanisms of the axisymmetric choked jet impinging on small plates: The production of primary tones, J Acoust Soc Am 99(1) 153-162 (Jan 1996), 6A236
Coherence of the sound field in a circular duct with uniform mean flow, J Sound Vib 190(2) 261-271 (Feb 1996), 7A317
Control of pressure oscillations in deep cavities excited by grazing flow, J Aircraft 33(1) 29-36 (Feb 1996), 7A318
Discrete tones generated by a supersonic jet ejector, J Acoust Soc Am 99(2) 777-784 (Feb 1996), 7A319
Experimental studies of the acoustic properties of a finite elastic pipe filled with water-air, J Sound Vib 189(4) 511-524 (Feb 1996), 7A320
Model for sound propagation in capillary ducts with mean flow, J Sound Vib 190(2) 163-175 (Feb 1996), 7A321
Prediction of the far-field jet noise using Kirchhoff's formulation, AIAA J 34(2) 413-416 (Feb 1996), 7T322
Impact of diversity in aircraft noise ratings, Noise Control Eng J 43(6) 209-215 (Dec 1995), 7A353
Focusing of helicopter BVI noise, J Sound Vib 190(3) 477-494 (Feb 1996), 8A243
Aeroacoustics, J Sound Vib 190(3) 387-398 (Feb 1996), 8A245
Aeroacoustics and time varying systems, J Sound Vib 190(3) 345-362 (Feb 1996), 8A246
Aircraft interior noise, J Sound Vib 190(3) 545-564 (Feb 1996), 8A247
Piston engine intake and exhaust system design, J Sound Vib 190(4) 677-712 (Mar 1996), 8A248
Radiated noise from isotropic turbulence with applications to the theory of jet noise, J Sound Vib 190(3) 463-476 (Feb 1996), 8A249
Correlation of acoustic pressures induced by a turbulent wake on a nearby wall, Acustica 82(1) 9-17 (Feb 1996), 9A344
Measurement of positive displacement pump flow ripple and impedance, J Syst Control Eng 210(I1) 65-74 (1996), 9A345
Vortex pairing as a model for jet noise generation, AIAA J 34(4) 669-675 (Apr 1996), 9A346
Prediction method for broadband shock-associated noise from supersonic rectangular jets, J Aircraft 33(2) 298-303 (Apr 1996), 9A1096

Acoustic-mean flow interaction and vortex shedding in solid rocket motors, Int J Numer Methods Fluids 22(6) 449-465 (Mar 1996), 9A1342
Boundary layer induced noise in aircraft - Part I: The flat plate model, J Sound Vib 192(1) 101-120 (Apr 1996), 10A342
Boundary layer induced noise in aircraft - Part II: The trimmed flat plate model, J Sound Vib 192(1) 121-138 (Apr 1996), 10A343
Comments on "Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow", J Sound Vib 191(4) 606-611 (Apr 1996), 10T374
Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow, J Sound Vib 191(4) 505-518 (Apr 1996), 10A379
Axisymmetric vibrational power measurement in empty and fluid-filled pipes, J Sound Vib 192(4) 771-791 (May 1996), 11A210
Aeroacoustics of musical instruments, Meccanica 31(2) 131-141 (Apr 1996), 11A244
Forward motion effects on jet noise, panel vibration, and radiation, AIAA J 34(6) 1103-1110 (Jun 1996), 11A245
Sound radiation from a cylindrical duct - Part 2: Source modeling, nil-shielding directions, and the open-to-ducted transfer function, J Fluid Mech 313 367-380 (Apr 1996), 11A246
Weakly nonlinear analysis on identification of vortex, sound, and heat, and their interactions in shear flow, Appl Math Mech 17(3) 213-220 (Mar 1996), 11A247
Influence of mean flow on boundary layer generated interior noise, J Acoust Soc Am 99(6) 3401-3411 (Jun 1996), 12A275

172D. Sound waves in gases

Experimental study of a thermoacoustic termination of a traveling-wave tube, J Acoust Soc Am 98(3) 1623-1628 (Sep 1995), 1A300
Panel dynamic response to a reverberant acoustic field, AIAA J 33(9) 1590-1596 (Sep 1995), 2A218
Sound propagation simulations using lattice gas methods, AIAA J 33(9) 1582-1589 (Sep 1995), 2A219
Linear pressure waves in fogs, J Fluid Mech 299 187-215 (Sep 1995), 2A928
Advances in Acoustics Technology - European Commission Aeronautics Research Series (Wiley, New York, 1995) 3N7
Experimental investigation on tunnel sonic boom, Shock Waves 5(3) 127-138 (Oct 1995), 3T208
Interaction of an isotropic field of acoustic waves with a shock wave, J Fluid Mech 300 383-407 (Oct 1995), 4A282
High and low frequency small amplitude disturbances in a perfectly conducting and radiating gas, Int J Eng Sci 33(14) 2001-2010 (Nov 1995), 4A310
Sound generation by a vortex ring collision, J Acoust Soc Am 98(6) 3418-3427 (Dec 1995), 5A262
Nonlinear oscillations of a gas in a tube, Appl Mech Rev 49(3) 137-154 (Mar 1996), 6A202
Analysis of aerodynamic noise by distributed monopole method, JSME Int J Ser B 39(1) 86-94 (Feb 1996), 7T323
Investigation of parametric drive of a longitudinal gas-filled resonance tube, J Acoust Soc Am 99(2) 725-729 (Feb 1996), 7A324
Propagation of sound above an impedance plane in a downward refracting atmosphere, J Acoust Soc Am 99(2) 746-754 (Feb 1996), 7A325
Transient acoustic near field in air generated by impacted plates, J Acoust Soc Am 99(2) 700-705 (Feb 1996), 7A326
Vibrational relaxation and sound absorption and dispersion in binary mixtures of gases, J Acoust Soc Am 99(2) 920-925 (Feb 1996), 7A327
Using high-order accurate essentially nonoscillatory schemes for aeroacoustic applications, AIAA J 34(2) 244-250 (Feb 1996), 7A365
Transient pressure variation of a fluid in a gravity-free environment, Z Angew Math Mech 76(1) 45-56 (1996), 8A250
Coherent mechanism of sound generation in vapor condensation, Acustica 82(1) 39-44 (Feb 1996), 9A347
Optimal conditions for the generation system of a saw gas sensor, Arch Acoust 21(1) 85-88 (1996), 9A348
Propagation of finite amplitude acoustic waves in the Earth's atmosphere, Acoust Lett 19(2) 28-35 (Aug 1995), 11A248
Study of the transient sound radiated by impacted solid bodies based on the BEM, JSME Int J Ser C 39(2) 218-224 (Jun 1996), 12A276
Three-dimensional effects in cascade-gust interaction, Wave Motion 23(4) 321-337 (Jun 1996), 12A277

172E. Sound waves in liquids (underwater acoustics)

Acoustic dispersion and attenuation relations in bubbly mixture, J Acoust Soc Am 98(3) 1629-1636 (Sep 1995), 1A301
Acoustic reflectivity of a sandy seabed: A semianalytic model of the effect of coupling due to the shear modulus profile, J Acoust Soc Am 98(2) 1075-1089 (Aug 1995), 1A302
Diffraction and pulse delay in a structured ocean, J Acoust Soc Am 98(2) 1065-1074 (Aug 1995), 1A303
Hydrodynamic siren as a broadband underwater sound projector, J Acoust Soc Am 98(2) 1047-1056 (Aug 1995), 1A304
Matched-signal ("MESS") processing by the ocean, J Acoust Soc Am 98(2) 943-960 (Aug 1995), 1A305
Model-based environmental inversion: A shallow water ocean application, J Acoust Soc Am 98(3) 1446-1454 (Sep 1995), 1A306
Passive localization in ocean acoustics: A model-based approach, J Acoust Soc Am 98(3) 1455-1471 (Sep 1995), 1A307
Reduced-complexity spatial and temporal processing of underwater acoustic communication signals, J Acoust Soc Am 98(2) 961-972 (Aug 1995), 1A308
Remote determination of *in situ* sediment parameters using Love waves, J Acoust Soc Am 98(2) 1090-1096 (Aug 1995), 1A309
Statistical aspects of acoustic returns from a wind-driven water surface covered with organic films, Arch Acoust 20(1) 39-56 (1995), 1A310
Statistical characteristics of moving acoustic sources in ocean waveguides, J Acoust Soc Am 98(3) 1486-1495 (Sep 1995), 1A311
Zooplankton target strength: Volumetric or areal dependence?, J Acoust Soc Am 98(2) 1111-1118 (Aug 1995), 1A312
Ocean Acoustic Tomography - Monographs on Mechanics Series (Cambridge UP, UK, 1995) 2R52
Mid-to-high frequency acoustic scattering and radiation from fluid-loaded structures: Asymptotic techniques, Wave Motion 22(1) 1-131 (Aug 1995), 2A220
Multiple scattering of ultrasound in suspensions, Acustica 81(4) 402-411 (Aug 1995), 2A221
Reverberation loss in shallow water, J Sound Vib 186(2) 279-290 (Sep 1995), 2A222
Calculation of turbulent boundary layer wall pressure spectra, J Acoust Soc Am 98(4) 2226-2234 (Dec 1995), 3A255
Constraining acoustic backscatter estimates of suspended sediment concentration profiles using the bed echo, J Acoust Soc Am 98(4) 2280-2288 (Dec 1995), 3A256
High-frequency propagation in shallow water: Rough waveguide problem, J Acoust Soc Am 98(5) 2702-2707 (Nov 1995), 3A257
Note on horizontal-refraction-modal tomography, J Acoust Soc Am 98(5) 2708-2716 (Nov 1995), 3A258
Simulated tomographic reconstruction of ocean features using drifting acoustic receivers and a navigated source, J Acoust Soc Am 98(4) 2270-2279 (Dec 1995), 3A259
Source localization in a partially known shallow-water channel, J Acoust Soc Am 98(5) 2554-2559 (Nov 1995), 3A260
Technique for sound velocity measurement in liquids using cavity resonance, Acoust Lett 18(7) 130-133 (Jan 1995), 3A261
Free decay of shape oscillations of bubbles acoustically trapped in water and sea water, J Fluid Mech 300 149-167 (Oct 1995), 4A1012
Effect of random sea surface and bottom roughness on propagation in shallow water, J Acoust Soc Am 98(6) 3397-3404 (Dec 1995), 5A263
Improve equivalent fluid approximations for a low shear speed ocean bottom, J Acoust Soc Am 98(6) 3391-3396 (Dec 1995), 5A264
Kaneohe acoustic thermometer further validated with rays over 3700 km and the demise of the idea of axially trapped energy, J Acoust Soc Am 99(1) 173-184 (Jan 1996), 6A237
Nonlinear analysis of environmental distortions of continuous wave signals in the ocean, J Acoust Soc Am 99(1) 139-146 (Jan 1996), 6A238
Acoustic scattering in the ocean from velocity and density fluctuations in the sediments, J Acoust Soc Am 99(2) 866-879 (Feb 1996), 7A328
Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, J Acoust Soc Am 99(2) 803-821 (Feb 1996), 7A329
Direct numerical simulation of acoustic-shear flow interactions in 2D ducts, AIAA J 34(2) 237-243 (Feb 1996), 7A330
Multiflament source model for short-range underwater acoustic problems involving pentrable ocean bottoms, J Acoust Soc Am 99(2) 845-850 (Feb 1996), 7A331
Temporal evolution of under ice reflectivity, J Acoust Soc Am 99(2) 851-865 (Feb 1996), 7A332
Travel-time perturbations due to internal waves: Equivalence of modal and ray solutions, J Acoust Soc Am 99(2) 822-830 (Feb 1996), 7A333
Effect of centerline particle concentration in a wave tube, J Fluid Mech 306 31-42 (Jan 1996), 7A1087
Analytical solution of radiated sound pressure of ring-stiffened cylindrical shells in fluid medium, Appl Math Mech 16(12) 1143-1148 (Dec 1995), 8A218
Acoustic pulse propagation in a fluctuating ocean with range-dependent sound-speed profile, J Acoust Soc Am 99(4) 2048-2054 (Apr 1996), 9A349
Effect of sea-surface roughness on shallow water waveguide propagation: A coherent approach, J Acoust Soc Am 99(4) 2013-2021 (Apr 1996), 9A350
Formulas for ambient noise level and coherence, J Acoust Soc Am 99(4) 2055-2066 (Apr 1996), 9A351
Initial-value problems in acoustics, elastodynamics, and electromagnetics, Wave Motion 23(2) 121-137 (Mar 1996), 10A344
Interaction of a single laser-generated cavity in water with a solid surface, J Acoust Soc Am 99(5) 2811-2824 (May 1996), 10A345
Inverse geoacoustic analysis of a shallow water site, Acoust Lett 18(12) 221-226 (Jun 1995), 10A346
Parameter estimation using multifrequency range-dependent acoustic data in shallow water, J Acoust Soc Am 99(5) 2839-2850 (May 1996), 10A347
Scintillating shallow-water waveguides, J Acoust Soc Am 99(5) 2825-2838 (May 1996), 10A348
Nonlinear phenomena induced by finite-amplitude oscillation of air column in a closed duct: Analysis of acoustic streaming, JSME Int J Ser B 39(2) 280-286 (May 1996), 11A190
Characteristics of sound waves in shallow water in presence of a stratified ground (French), Acustica 82(2) 260-267 (Apr 1996), 11A249
Modal analysis of the acoustic field radiated from an unflanged cylindrical duct: Theory and measurement, Acustica 82(2) 201-206 (Apr 1996), 11A250
Experimental study of the conversion of Lamb waves at the end of an immersed plate, Acustica 82(2) 251-259 (Apr 1996), 11A257
Attenuation and dispersion of sound in water containing multiply interacting air bubbles, J Acoust Soc Am 99(6) 3412-3430 (Jun 1996), 12A278
Attenuation of higher order circumferential thermoacoustic waves in viscous fluid lines, J Sound Vib 193(5) 1099-1113 (Jun 1996), 12A279
Mutual interaction between a bubble and a drop in a sound field, J Acoust Soc Am 99(6) 3373-3379 (Jun 1996), 12A280
Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, Appl Acoust 47(4) 283-289 (1996), 12A281
Physical mechanisms to explain the observed features of ambient noise in shallow water, J Acoust Soc Am 99(6) 3439-3444 (Jun 1996), 12A282

172F. Sound waves in solids

Frequency response functions for structural intensity - Part I: Theory, J Sound Vib 185(2) 299-334 (Aug 1995), 1A313
Passive vibration control via unusual geometries: The application of genetic algorithm optimization to structural design, J Sound Vib 185(3) 441-453 (Aug 1995), 1A314
Simple coupled wedge mode propagation method, J Acoust Soc Am 98(3) 1673-1681 (Sep 1995), 1A315
Practical tuning of xylophone bars and resonators, Appl Acoust 46(1) 103-127 (1995), 2A223
Towards a practical characterization for structure-borne sound sources based on mobility techniques, J Sound Vib 185(4) 737-741 (Aug 1995), 2T224
Tuning of church and carillon bells, Appl Acoust 46(1) 83-101 (1995), 2A225
Vibratory power transmission through 3D beam junctions, J Sound Vib 185(4) 595-607 (Aug 1995), 2A226
Using the BEM to investigate the wave propagation in a viscoelastic-acoustic system, Boundary Elements Comm 6(5) 197-203 (Sep 1995), 3A51
Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), J Vib Eng 8(2) 111-118 (Jun 1995), 3A216
Power considerations in acoustic emission, J Acoust Soc Am 98(4) 2070-2081 (Dec 1995), 3A262
Vibrational transmission between flanged plates (Chinese), J Vib Eng 8(2) 99-110 (Jun 1995), 3A263
Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), Arch Gornictwa 40(1) 53-62 (1995), 3A590
Structure-borne sound power emmission from resiliently mounted fans: Case studies and diagnosis, J Sound Vib 186(5) 781-803 (Oct 1995), 4A311
Study of acoustic transmission through apertures in a wall, Appl Acoust 46(2) 131-151 (1995), 4A312
Velocity inversion for acoustic waves with wavelet operator, J Eng Math 29(6) 591-606 (Nov 1995), 4A313
Acoustics of Wood (CRC Press, Boca Raton FL, 1995) 5R8
Radiation of nonstationary acoustic waves of radially polarized cylindrical piezotransducer (Russian), Prikl Mekh (Appl Mech) 31(4) 41-48 (1995), 7A334
Energy flow analysis of bars and beams: Theoretical formulations, J Sound Vib 192(1) 281-305 (Apr 1996), 10A146
New analysis method for general acoustic-structural coupled systems, J Sound Vib 192(2) 465-480 (May 1996), 10A338
Sound transmission through dry lined walls, J Sound Vib 192(2) 563-579 (May 1996), 10A349
Sound transmission through multi-panel structures lined with elastic porous materials, J Sound Vib 191(3) 317-347 (Apr 1996), 10A350
Variation of structural-acoustical characteristics of automotive vehicles, Noise Control Eng J 44(2) 93-99 (Apr 1996), 10A351
Mobility analysis of structure-borne noise power flow through bearings in gearbox-like structure, Noise Control Eng J 44(2) 69-78 (Apr 1996), 10A1013
Effect of ultrasonic waves on the penetration of creosote into spruce wood, Acustica 82(2) 368-370 (Apr 1996), 11T251
Prediction of structural vibration transmission through a motor vehicle using statistical energy analysis, J Sound Vib 193(3) 691-703 (Jun 1996), 12A283

172G. Sound waves in nonhomogeneous, porous and random media

Focusing in transmit-receive mode through inhomogeneous media: The time reversal matched filter approach, J Acoust Soc Am 98(2) 1155-1162 (Aug 1995), 1A316
Identification of cylindrical shells with sets of reinforcing ribs by their acoustic Bragg diffraction (grating) patterns, Appl Acoust 45(4) 321-334 (1995), 1A317
Propagation from a point source over a rough finite impedance boundary, J Acoust Soc Am 98(3) 1717-1722 (Sep 1995), 1A318
Sound field of a baffled piston source covered by a porous medium layer, J Acoust Soc Am 98(3) 1757-1766 (Sep 1995), 1A319
Sound field within a rigid porous layer, Appl Acoust 45(4) 283-296 (1995), 1A320
Ultrasonic four-wave mixing modiated by an aqueous suspension of microspheres: Theoretical steady-state properties, J Acoust Soc Am 98(3) 1731-1741 (Sep 1995), 1A321
Behavior of solid particles in pulsating flows, J Sound Vib 185(4) 581-593 (Aug 1995), 2A227
Acoustic FE formulation of a flexible porous material: A correction for inertial effects, J Sound Vib 185(4) 559-580 (Aug 1995), 2A233
Acoustic imaging in turbulent media with the spatial bispectrum, J Acoust Soc Am 98(5) 2567-2574 (Nov 1995), 3A264
Mean and variance of the ultrasonic signal from a scatterer beneath a rough surface: Theory, J Acoust Soc Am 98(4) 2217-2224 (Dec 1995), 3A265
Two-dimensional wave propagation in cylindrical single-crystal solid-liquid bodies, J Acoust Soc Am 98(5) 2663-2680 (Nov 1995), 3A266
Ultrasonic radiative transfer in polycrystalline media: Effects of a fluid-solid interface, J Acoust Soc Am 98(5) 2801-2808 (Nov 1995), 3A267
Wave motions in stochastic heterogeneous media: A Green's function approach, Eng Anal Boundary Elements 15(3) 225-234 (1995), 3A268
Acoustics of Wood (CRC Press, Boca Raton FL, 1995) 5R8
Sonic boom propagation through a realistic turbulent atmosphere, J Acoust Soc Am 98(6) 3412-3417 (Dec 1995), 5A265
Strong fluctuation theory for a mean acoustic field in a random fluid medium with statistically anisotropic perturbations, J Acoust Soc Am 99(1) 46-54 (Jan 1996), 6A239
Local variations of slow wave attenuation in air-filled permeable materials, J Acoust Soc Am 99(2) 914-919 (Feb 1996), 7A335
Small perturbations in the medium of variable mass, Mech Res Commun 23(2) 123-130 (Apr 1996), 8A251
Particle separation using acoustic radiation force and electrostatic force, J Acoust Soc Am 99(4) 1965-1970 (Apr 1996), 9A352
Theory of high-frequency sound propagation in a spatially inhomogeneous medium, J Acoust Soc Am 99(4) 2006-2012 (Apr 1996), 9A353
Visualization of acoustic particle interaction and agglomeration: Theory and experiments, J Acoust Soc Am 99(4) 2130-2141 (Apr 1996), 9A354
Finite element model for sound transmission through foam-lined double-panel structures, J Acoust Soc Am 99(5) 2755-2765 (May 1996), 10A352

Wave propagation in anisotropic, saturated porous media: Plane-wave theory and numerical simulation, J Acoust Soc Am 99(5) 2655-2666 (May 1996), 10A353
Characteristics of sound waves in shallow water in presence of a stratified ground (French), Acustica 82(2) 260-267 (Apr 1996), 11A249
Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, Acustica 82(2) 372-375 (Apr 1996), 11T252
Theoretical investigation of sound transmission through periodic multilayer loss-free fluid media, Acustica 82(2) 207-212 (Apr 1996), 11A253
Effect of turbulent intermittency on scattering into an acoustic shadow zone, J Acoust Soc Am 99(6) 3393-3400 (Jun 1996), 12A284

172H. Reflection, refraction, diffraction, and scattering

Backscattering from a baffled finite plate strip with fuzzy attachments, J Acoust Soc Am 98(3) 1527-1533 (Sep 1995), 1A322
Fractal characterization of ultrasonic backscattered signals from single crystal and polycrystalline materials, J Acoust Soc Am 98(2) 938-942 (Aug 1995), 1A323
Full-field optimum detection in an uncertain, anisotropic random wave scattering environment, J Acoust Soc Am 98(2) 1097-1110 (Aug 1995), 1A324
Near field sound radiation from simply supported rectangular plates, J Sound Vib 185(3) 455-471 (Aug 1995), 1A325
Network analysis of scattering from an internally loaded spherical shell: Resonance identification and frequency-by-frequency limits on the scattered field, J Acoust Soc Am 98(3) 1667-1672 (Sep 1995), 1A326
Numerical model of multiple sound scattering from gas bubbles in the sea, Arch Acoust 20(2) 191-205 (1995), 1A327
Point source excitation in direct and inverse scattering: The soft and the hard small sphere, IMA J Appl Math 55(1) 67-84 (1995), 1A328
Propagation and scattering of APM in the piezoelectric plate with periodically corrugated surfaces, Arch Acoust 20(3) 247-269 (1995), 1A329
Scattering from collective modes of air bubbles in water and the physical mechanism of superresonances, J Acoust Soc Am 98(2) 1178-1190 (Aug 1995), 1A330
Sound-structure interaction analysis of composite panels using coupled boundary and FEMs, J Acoust Soc Am 98(2) 1216-1221 (Aug 1995), 1A331
Ultrasonic diffraction from a transducer with arbitrary geometry and strength distribution, J Acoust Soc Am 98(2) 1191-1198 (Aug 1995), 1A332
Acoustic scattering from a circular aperture in a thick hard screen, J Acoust Soc Am 98(4) 2324-2327 (Dec 1995), 3A269
Acoustic scattering from a rigid tapered finite parabolic cylinder, J Acoust Soc Am 98(4) 2328-2335 (Dec 1995), 3A270
Acoustic scattering of a plane wave by two spherical elastic shells, J Acoust Soc Am 98(4) 2149-2156 (Dec 1995), 3A271
Impulse-response method to predict echo responses from defects in solids - Part I: Theory, J Acoust Soc Am 98(4) 2197-2208 (Dec 1995), 3A272
Measurements of ultrasonic backscatter coefficients in human liver and kindey *in vivo*, J Acoust Soc Am 98(4) 1852-1857 (Dec 1995), 3A273
Non-existence of trapped modes in acoustic waveguides, Quart J Mech Appl Math 48(4) 543-555 (Nov 1995), 3A274
Shape reconstruction using diffracted waves and canonical solutions, Inverse Prob 11(5) 1097-1111 (Oct 1995), 3A275
Theoretical description of possible detection of swimbladdered fish in forward scatter, J Acoust Soc Am 98(5) 2717-2725 (Nov 1995), 3A276
Ultrasonic scattering from a simulated cavity in steel, J Acoust Soc Am 98(5) 2809-2818 (Nov 1995), 3A277
Rayleigh wave scattering by a wedge, Wave Motion 22(3) 239-257 (Nov 1995), 4A245
Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load, Wave Motion 22(3) 259-277 (Nov 1995), 4A314
Acoustic scattering from a rigid tapered finite elliptic cylinder, Acoust Lett 18(9) 155-159 (Mar 1995), 4A315
Application of zero-radius potentials to problems of diffraction by small inhomogeneities in elastic plates, J Appl Math Mech 59(3) 425-437 (1995), 4A316
Discrete model for tubular acoustic systems with varying cross section - The direct and inverse problems - Part 1: Theory, Acustica 81(5) 450-462 (Oct 1995), 4A317
Discrete model for tubular acoustic systems with varying cross-section - The direct and inverse problems - Part 2: Experiments, Acustica 81(5) 463-474 (Oct 1995), 4A318
Sound radiation from finite cylindrical shells, partially covered with longitudinal strips of compliant layer, J Sound Vib 186(5) 723-742 (Oct 1995), 4A319
Sommerfield's half-plane problem for equations of linear thermoelasticity, Math Methods Appl Sci 18(15) 1215-1237 (Dec 1995), 4A1229
Fundamental structural-acoustic idealizations for structures with fuzzy internals, J Vib Acoust 117(3(A)) 339-348 (Jul 1995), 5A256
Acoustic and flexural wave scattering from a three-member junction, J Acoust Soc Am 98(6) 3309-3319 (Dec 1995), 5A266
Acoustic scattering from a sphere of small radius coated by a penetrable one, J Acoust Soc Am 98(6) 3508-3515 (Dec 1995), 5A267
Acoustic scattering in 3D fluid media, J Acoust Soc Am 98(6) 3462-3468 (Dec 1995), 5A268
Attenuation, dispersion, and anisotropy by multiple scattering of transmitted waves through distributions of scatterers, J Acoust Soc Am 98(6) 3482-3492 (Dec 1995), 5A269
Complex power, reciprocity, and radiation for submerged bodies, J Acoust Soc Am 98(6) 3343-3351 (Dec 1995), 5A270
Measurement and prediction of time domain waveforms in fiber-reinforced laminates, J Acoust Soc Am 98(6) 3383-3390 (Dec 1995), 5A271
Phase singularities in scanning acoustical microscopy, J Acoust Soc Am 98(6) 3375-3382 (Dec 1995), 5A272
Scattering of sound from a spatially distributed, spherically symmetric source by a sphere, J Acoust Soc Am 98(6) 3536-3539 (Dec 1995), 5A273
Scholte wave diffraction by a dihedral: Study at oblique incidence, J Acoust Soc Am 98(6) 3493-3500 (Dec 1995), 5A274
Traveling-wave decomposition of surface displacements associated with scattering by a cylindrical shell: Numerical evaluation displaying guided forward and backward wave properties, J Acoust Soc Am 98(6) 3501-3507 (Dec 1995), 5A275
Application of the FEM to acoustic scattering problems, AIAA J 34(1) 29-34 (Jan 1996), 6A19
Hybrid ray-mode (wavefront-resonance) approach for analyzing acoustic radiation and scattering by submerged structures, J Acoust Soc Am 99(1) 114-132 (Jan 1996), 6A208
Acoustic scattering from viscoelastically coated bodies, J Acoust Soc Am 99(1) 72-78 (Jan 1996), 6A240
Acoustic time-domain reflectometry for irregular surface recognition, J Acoust Soc Am 99(1) 444-454 (Jan 1996), 6A241
Diffraction by the edge of a 3D object, J Acoust Soc Am 99(1) 79-87 (Jan 1996), 6A242
Low-frequency acoustic scattering model for small schools of fish, J Acoust Soc Am 99(1) 196-208 (Jan 1996), 6A243
Measurement and prediction of the reflection coefficient of porous layers at oblique incidence and for inhomogeneous waves, J Acoust Soc Am 99(1) 100-107 (Jan 1996), 6A244
Predictions of the acoustic scattering response of free-methane bubbles in muddy sediments, J Acoust Soc Am 99(1) 163-172 (Jan 1996), 6A245
Pressure wave propagation in a short tunnel caused by passing trains, Forschung Ingenieur 61(11-12) 304-314 (Dec 1995), 6A246
Reduction of sound radiated from vibrating structures via active control of local volume velocity, Appl Acoust 47(1) 27-46 (1996), 6A247
Spherical inclusion characterization by the acoustical microscope: Axisymmetric case, J Acoust Soc Am 99(1) 33-45 (Jan 1996), 6A248
Statistical approach for the diffusion of sound by reflecting surfaces in large enclosures, Appl Acoust 47(1) 67-81 (1996), 6A249
Acoustic scattering from fish swimbladders, J Acoust Soc Am 99(2) 785-792 (Feb 1996), 7A336
Acoustical layer with mechanical pumping, J Acoust Soc Am 99(2) 730-733 (Feb 1996), 7A337
Application of the time domain formulation of the method of equivalent sources to radiation and scattering problems, Acustica 81(6) 528-543 (Dec 1995), 7A338
Deterministic and stochastic analysis of acoustic plane-wave reflection from inhomogeneous porous seafloor, J Acoust Soc Am 99(2) 903-913 (Feb 1996), 7A339
Neoclassical solution of transient interaction of plane acoustic waves with a spherical elastic shell, Shock Vib 3(2) 85-98 (1996), 7A340
Observation of nonlinear scattering of acoustical waves at sea sediments, Acoust Lett 18(11) 198-203 (May 1995), 7A341
Reflection and transmission coefficients for a layered fluid sediment overlying a uniform solid substrate, J Acoust Soc Am 99(2) 893-902 (Feb 1996), 7A342
Source simulation technique for acoustic radiation problems, Acustica 81(6) 512-527 (Dec 1995), 7A343
Theoretical model of in-plane scatter from a smooth sediment seabed, J Acoust Soc Am 99(2) 836-844 (Feb 1996), 7A344
On-line process control based on geometrical parameters from measured data in machining process (Japanese), J Japan Soc Precision Eng 61(12) 1710-1714 (Dec 1995), 7A482
Reflection and transmission of the energy of transient elastic extensional waves in a bent bar, J Sound Vib 191(2) 261-272 (Mar 1996), 9A190
Acoustic performance of parallel traffic noise barriers, Appl Acoust 47(2) 95-119 (1996), 9A355
Acoustic solitary waves in a tunnel with an array of Helmholtz resonators, J Acoust Soc Am 99(4) 1971-1976 (Apr 1996), 9A356
Effect of multilayer baffles and domes on hydrophone response, J Acoust Soc Am 99(4) 1883-1893 (Apr 1996), 9A357
Elastic vibrations of planar and deterministic rough surfaces, Acta Phys Polonica A 89(2) 129-137 (Feb 1996), 9A358
Harmonic components of finite amplitude sound waves reflected at a surface, Arch Acoust 21(1) 29-36 (1996), 9A359
Hybrid processing structure for the analysis of scattering from stiffened, fluid-loaded cylindrical shells, J Acoust Soc Am 99(4) 2176-2182 (Apr 1996), 9A360
Image of the energetic acoustic field in reduced parallelepiped room models, Acustica 82(1) 72-81 (Feb 1996), 9A361
Imaging the sources on a cylindrical shell from far-field pressure measured on a semicircle, J Acoust Soc Am 99(4) 2022-2032 (Apr 1996), 9A362
Inverse scattering for the penetrable ellipsoid and ellipsoidal boss, J Acoust Soc Am 99(4) 1877-1882 (Apr 1996), 9A363
Massively-parallel computation for acoustical-scattering problems using BEMs, J Sound Vib 191(1) 145-165 (Mar 1996), 9A364
Modal resonances of the Franz waves, Acustica 82(1) 18-26 (Feb 1996), 9A365
Rayleigh scattering from nonspherical particles, J Acoust Soc Am 99(4) 1901-1912 (Apr 1996), 9A366
Wave theory of diffraction, Wave Motion 23(2) 165-179 (Mar 1996), 10A269
Acoustic point source scattering by a spherical elastic shell submerged beneath a free surface, J Acoust Soc Am 99(5) 2720-2726 (May 1996), 10A354
Acoustic scattering from cylindrical shells with deck-type internal plate at oblique incidence, J Acoust Soc Am 99(5) 2701-2713 (May 1996), 10A355
Numerical analysis of near and far fields scattered by two plates with finite thickness, J Sound Vib 192(2) 535-548 (May 1996), 10A356
Precision ultrasonic reflection studies in fluid-coupled plates, J Acoust Soc Am 99(5) 2727-2736 (May 1996), 10A357
Scattering of sound by a fluid-loaded plate with a distributed mass inhomogeneity, J Acoust Soc Am 99(5) 2686-2700 (May 1996), 10A358
Transient acoustic diffraction in a fluid layer, Wave Motion 23(2) 139-164 (Mar 1996), 10A359
Ultrasound pulse reflection mode measurement of nonlinearity parameter B/A and attenuation coefficient, J Acoust Soc Am 99(5) 2775-2782 (May 1996), 10A360
Coupled FEM-BEM formulation for acoustic radiation in a subsonic non-uniform flow, J Sound Vib 192(1) 333-347 (Apr 1996), 10A1085
Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, Acustica 82(2) 372-375 (Apr 1996), 11T252
Comparison of time domain boundary conditions for acoustic waves in wave guides, Quart Appl Math 54(2) 249-265 (Jun 1996), 11A254
Diffraction by an acoustically penetrable strip, Acoust Lett 19(2) 24-27 (Aug 1995), 11A255
Diffraction from an absorbing half-plane due to finite cylindrical source, Acustica 82(2) 365-367 (Apr 1996), 11T256
Experimental study of the conversion of Lamb waves at the end of an immersed plate, Acustica 82(2) 251-259 (Apr 1996), 11A257
Explicit analytical results for one-mode oblique penetration into a periodic array of screens, IMA J Appl Math 56(2) 109-120 (Apr 1996), 12A227
Experimental study of local mass influence on sound radiation from a thin limited cylindrical shell, Appl Acoust 48(1) 47-57 (1996), 12A285
Newton method for solving the inverse scattering problem for a sound-hard obstacle, Inverse Prob 12(3) 309-323 (Jun 1996), 12A286
Reflection, refraction, transmission of acoustic waves by a T-junction in piecewise-continuous plate construction and radiation into fluid loading the plate, J Sound Vib 193(4) 763-771 (Jun 1996), 12A287
Ultrasonic plane SH wave reflection from a uni-directional fibrous composite slab, J Sound Vib 193(5) 1069-1078 (Jun 1996), 12A797
Study of ultrasonic wave propagation through parallel arrays of immersed tubes, J Sound Vib 193(5) 1049-1068 (Jun 1996), 12A1260

172I. Acoustic properties of materials

Pade approximants for the acoustical characteristics of rigid frame porous media, J Acoust Soc Am 98(2) 1119-1129 (Aug 1995), 1A333
Particle-loaded composites for acoustic anechoic coatings, J Sound Vib 185(2) 219-246 (Aug 1995), 1A334
Nonlinear oscillations of a cluster of bubbles in a sound field: Bifurcation structure, JSME Int J Ser B 38(3) 432-439 (Aug 1995), 1A1039
Certainty of acoustic-emission control of the quality of composites, J Machinery Manuf Reliab 1 94-99 (1995), 3A278
Conceptual model for acoustic microcavitation, J Acoust Soc Am 98(5) 2681-2689 (Nov 1995), 3A279
Theoretical, computational, and experimental investigation of Helmholtz resonators with fixed volume: Lumped versus distributed analysis, J Sound Vib 187(2) 358-367 (Oct 1995), 4T320
Surface impedance of grounds with exponential porosity profiles, J Acoust Soc Am 99(1) 147-152 (Jan 1996), 6A250
Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers, J Acoust Soc Am 99(2) 734-745 (Feb 1996), 7A345
Acoustic gyrotropic tensor in quasicrystals, J Acoust Soc Am 99(4) 1958-1959 (Apr 1996), 9A367
Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attenuation measurements, J Acoust Soc Am 99(4) 1944-1948 (Apr 1996), 9A368
Ultrasonic characterization of a polymerizing epoxy resin with imbalanced stoichiometry, J Acoust Soc Am 99(4) 2110-2115 (Apr 1996), 9A369
Critical properties of acoustic wave absorption in the benzonitrile-isooctane system, Arch Acoust 21(1) 53-63 (1996), 9A389
Acoustic properties of permeable membranes, J Acoust Soc Am 99(5) 3003-3009 (May 1996), 10A361
Compressibility of air in fibrous materials, J Acoust Soc Am 99(5) 3010-3017 (May 1996), 10A362
Perception of exterior noise from traffic running on concrete and bituminous road surfacings, J Sound Vib 191(3) 415-430 (Apr 1996), 10A363
Comparison of time domain boundary conditions for acoustic waves in wave guides, Quart Appl Math 54(2) 249-265 (Jun 1996), 11A254
Acoustic properties of fabrics in low-intensity ultrasound, Appl Acoust 47(4) 345-350 (1996), 12A288
Acoustical characteristics of fabrics in high-intensity ultrasound, Appl Acoust 48(1) 33-45 (1996), 12A289
Subsystem approach for acoustic analysis of mufflers having identical perforated pipes, J Sound Vib 193(5) 985-1001 (Jun 1996), 12A290

172J. Noise control and reduction (incl active control)

Damping of flexural and acoustic waves by a bias-flow perforated elastic plate, European J Appl Math 6(4) 307-328 (Aug 1995), 1A251
Passive vibration control via unusual geometries: The application of genetic algorithm optimization to structural design, J Sound Vib 185(3) 441-453 (Aug 1995), 1A314
Acoustical performance of the Grand Hall of the Ataturk Cultural Center, Appl Acoust 45(4) 297-319 (1995), 1A335
Interaural cross-correlation, lateral fraction, and low- and high-frequency sound levels as measures of acoustical quality in concert halls, J Acoust Soc Am 98(2) 988-1007 (Aug 1995), 1A336
Local active control of diffracted diffuse sound fields, J Acoust Soc Am 98(2) 1017-1024 (Aug 1995), 1A337
Long term effect of noise protection barriers on the annoyance response of residents, J Sound Vib 184(5) 823-852 (Aug 1995), 1A338
Material parameter selection in polyester fiber insulation for sound transmission and absorption, Appl Acoust 45(4) 335-358 (1995), 1A339
Reactive characteristics of partial screens for a sound source mounted in an infinite baffle, J Acoust Soc Am 98(2) 1008-1016 (Aug 1995), 1A340
Refractive fiber optic microphones with ambient acoustic noise-canceling capabilities, J Acoust Soc Am 98(3) 1612-1617 (Sep 1995), 1A341
Stochastic response evaluation using the digital filter supported by method for a double-wall-type sound insulation system excited by the actual music sound, J Acoust Soc Am 98(3) 1472-1485 (Sep 1995), 1A342
Wave scattering by a 2D pressure-release surface based on a perturbation of the Green's function, J Acoust Soc Am 98(3) 1699-1716 (Sep 1995), 1A343

Suppression of vortex shedding from a circular cylinder by internal acoustic excitation, J Fluids Struct 9(5) 563-570 (Jul 1995), 1A1068

Adaptive active attenuation of noise using multiple model approaches, Mech Syst Signal Processing 9(5) 555-567 (Sep 1995), 2A228

Natural algorithms for choosing source locations in active control systems, J Sound Vib 186(2) 245-267 (Sep 1995), 2A229

Phase gratings with suppressed specular reflection, Acustica 81(4) 364-369 (Aug 1995), 2A230

Study on the sound absorption of a quadratic-residue type diffuser, Acustica 81(4) 370-378 (Aug 1995), 2A231

Wide-angle diffuser: A wide-angle absorber?, Acustica 81(4) 379-401 (Aug 1995), 2A232

Non-existence of trapped modes in acoustic waveguides, Quart J Mech Appl Math 48(4) 543-555 (Nov 1995), 3A274

Certainty of acoustic-emission control of the quality of composites, J Machinery Manuf Reliab 1 94-99 (1995), 3A278

Active cancellation of pressure and pressure gradient in a diffuse sound field, J Sound Vib 186(4) 696-704 (Oct 1995), 3A280

Active control of sound radiation using volume velocity cancellation, J Acoust Soc Am 98(4) 2174-2186 (Dec 1995), 3A281

Adaptive feedforward modal space control, J Acoust Soc Am 98(5) 2639-2650 (Nov 1995), 3A282

Balcony overhangs in concert auditoria, J Acoust Soc Am 98(5) 2580-2589 (Nov 1995), 3A283

Case of high noise sensitivity, J Sound Vib 186(4) 617-621 (Oct 1995), 3A284

Feedback control of sound radiation from a plate excited by a turbulent boundary layer, J Acoust Soc Am 98(5) 2651-2662 (Nov 1995), 3A285

Optimizing actuator locations in active noise control systems using subset selection, J Sound Vib 186(3) 395-406 (Sep 1995), 3A286

Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, J Sound Vib 186(4) 599-605 (Oct 1995), 3A287

Prediction of road-side noise levels for sustainability assessments in the small urban environment, Acoust Lett 18(7) 120-124 (Jan 1995), 3A288

Sound cancellation by the use of secondary multipoles, J Acoust Soc Am 98(4) 2343-2362 (Dec 1995), 3A289

Sound equilization in enclosures using modal reconstruction, J Acoust Soc Am 98(4) 2062-2069 (Dec 1995), 3A290

Acoustic control using a self-sensing actuator, J Sound Vib 187(1) 145-165 (Oct 1995), 4A321

Adaptive active control of sound transmission through an aperture at low frequencies, Appl Acoust 46(2) 153-174 (1995), 4A322

Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), J Vib Eng 8(3) 258-263 (Sep 1995), 4A323

Noise active control study based on control theory for distributed parameter systems (Chinese), J Vib Eng 8(3) 286-290 (Sep 1995), 4A324

Segmented Rayleigh-Ritz method for predicting sound transmission in a dissipative exhaust silencer of arbitary cross-section, J Sound Vib 187(1) 23-37 (Oct 1995), 4A325

Active control of a circular membrane to reduce transient noise transmission, J Vib Acoust 117(3(A)) 252-258 (Jul 1995), 5A276

Building acoustics, Appl Acoust 46(3) 215-324 (1995), 5A277

Genetic algorithm for active noise control actuator positioning, Mech Syst Signal Processing 9(6) 697-705 (Nov 1995), 5A278

Natural vibration of a cavity backed rectangular plate using a receptor-rejector system model, J Vib Acoust 117(4) 416-423 (Oct 1995), 5A279

Time-domain computational simulation of acoustic silencers, J Vib Acoust 117(3(A)) 323-331 (Jul 1995), 5A280

Use of optimally shaped piezoelectric film sensors in the active control of free field structural radiation - Part 1: Feedforward control, J Vib Acoust 117(3(A)) 311-322 (Jul 1995), 5A281

Damping of sound and vibration by flow nonlinearity in the apertures of a perforated elastic screen, IMA J Appl Math 55(3) 221-242 (1995), 6A214

Effects of nozzle body on jet noise, J Sound Vib 188(3) 407-418 (Dec 1995), 6A235

Reduction of sound radiated from vibrating structures via active control of local volume velocity, Appl Acoust 47(1) 27-46 (1996), 6A247

Acoustic performance of a multiple edge noise barrier profile at motorway sites, Appl Acoust 47(1) 47-66 (1996), 6A251

Analytical investigation of active control of radiated inlet fan noise, J Acoust Soc Am 99(1) 408-416 (Jan 1996), 6A252

Fast adaptive noise control algorithm based on the lattice structure, Appl Acoust 47(1) 1-25 (1996), 6A253

Reduction of vortex shedding noise in idling circular saws using self-jets of air through saw teeth, J Sound Vib 188(5) 745-752 (Dec 1995), 6T254

Role of negative statements on the subjective effects of traffic noise, J Sound Vib 188(3) 347-361 (Dec 1995), 6A255

Transient response of lightly damped rooms: A FE approach, J Acoust Soc Am 99(1) 108-113 (Jan 1996), 6A256

Acoustics in long enclosures with multiple sources, J Acoust Soc Am 99(2) 985-989 (Feb 1996), 7A346

Active control of sound transmission through a plate using a piezoelectric actuator and sensor, Smart Mat Struct 4(4) 231-239 (Dec 1995), 7A347

Annoyance of idling diesel engine noise evaluated by multivariate analysis, Noise Control Eng J 43(6) 197-207 (Dec 1995), 7A348

Collocated structural control for reduction of aircraft cabin noise, J Sound Vib 190(1) 105-119 (Feb 1996), 7A349

Control of panel response to turbulent boundary-layer and acoustic excitations, AIAA J 34(2) 259-264 (Feb 1996), 7A350

Finite element-optimization methods for the active control of radiated sound from a plate structure, Smart Mat Struct 4(4) 318-326 (Dec 1995), 7A351

Flexural wave reduction using a compliant tube baffle, J Acoust Soc Am 99(2) 691-699 (Feb 1996), 7A352

Impact of diversity in aircraft noise ratings, Noise Control Eng J 43(6) 209-215 (Dec 1995), 7A353

Null-field approach to dissipative silencers of arbitrary cross-section, J Sound Vib 189(4) 489-509 (Feb 1996), 7A354

Parallel-element liner impedances for improved absorption of broadband sound in ducts, Noise Control Eng J 43(6) 183-195 (Dec 1995), 7A355

Point-matching method on dissipative silencers of arbitrary cross-section, J Sound Vib 189(1) 123-135 (Jan 1996), 7A356

Sound absorption of occupied auditorium seating, J Acoust Soc Am 99(2) 990-1001 (Feb 1996), 7A357

Vibro-acoustic reciprocity principle and applications to noise control, Acustica 81(6) 544-558 (Dec 1995), 7A358

Human-response effects of impulse noise, J Sound Vib 190(3) 525-543 (Feb 1996), 8A241

Aeroacoustics and time varying systems, J Sound Vib 190(3) 345-362 (Feb 1996), 8A246

Aircraft interior noise, J Sound Vib 190(3) 545-564 (Feb 1996), 8A247

Radiated noise from isotropic turbulence with applications to the theory of jet noise, J Sound Vib 190(3) 463-476 (Feb 1996), 8A249

Active control of environmental noise, J Sound Vib 190(3) 565-585 (Feb 1996), 8A252

Identification of system functions from primary sensor to secondary source in active noise control system (Chincse), J Dalian Univ Tech 36(1) 89-93 (Jan 1996), 8A253

Modeling of chamber mufflers by four-pole electrical ducts, Int J Vehicle Des 17(1) 92-104 (1996), 8A254

Real-time post-treatment algorithm for adaptive noise cancellation used in speech enhancement (Chinese), J Dalian Univ Tech 36(1) 94-99 (Jan 1996), 8A255

Relation between engine noise and crankshaft vibrations (Chinese), J Dalian Univ Tech 36(2) 198-202 (Mar 1996), 9A234

Measurement of positive displacement pump flow ripple and impedance, J Syst Control Eng 210(11) 65-74 (1996), 9A345

Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feedforward control, JSME Int J Ser C 39(1) 49-57 (Mar 1996), 9A370

Active control of low-frequency broadband jet engine exhaust noise, Noise Control Eng J 44(1) 45-52 (Feb 1996), 9A371

Active noise control of turning machine using neural network, Int J Japan Soc Precision Eng 29(4) 349-350 (Dec 1995), 9T372

Active sound and vibration control: A technology in transition, Noise Control Eng J 44(1) 1-9 (Feb 1996), 9A373

Comparison of actuation and sensing techniques for aircraft cabin noise control, Noise Control Eng J 44(1) 53-58 (Feb 1996), 9A374

Control of broadband acoustic radiation with adaptive structures, J Intelligent Mat Syst Struct 7(1) 54-64 (Jan 1996), 9A375

Reference transducer selection for active control of structure-borne road noise in automobile interiors, Noise Control Eng J 44(1) 35-43 (Feb 1996), 9A376

Predicting a noise level of rotating propeller with blades of an arbitrary form, TsAGI 1(1) 95-107 (1994), 10A340

Control effort weighting in feedforward adaptive control systems, J Acoust Soc Am 99(5) 2955-2964 (May 1996), 10A364

Influence of gear errors on acceleration noise from spur gears, J Acoust Soc Am 99(5) 2922-2929 (May 1996), 10A365

Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, J Acoust Soc Am 99(5) 2947-2954 (May 1996), 10A366

Optimal placement of microphones and piezoelectric transducer actuators for far-field sound radiation control, J Acoust Soc Am 99(5) 2975-2984 (May 1996), 10A367

Prediction of acoustic vibration in steam generation and heat exchanger tube banks, J Pressure Vessel Tech 118(2) 221-236 (May 1996), 10A368

Research and practice of the selective direction noise measurement method (Chinese), J Vib Eng 9(1) 75-79 (Mar 1996), 10T369

Sources and effects of low-frequency noise, J Acoust Soc Am 99(5) 2985-3002 (May 1996), 10A370

Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, Int J Vehicle Des 17(3) 318-332 (1996), 11A145

Assessment of noise control measures for a model advanced ducted propulsor, J Aircraft 33(3) 505-510 (Jun 1996), 11A258

Time-averaged active controller for turbofan engine fan noise reduction, J Aircraft 33(3) 524-531 (Jun 1996), 11A259

Proceedings of the 1995 Noise and Vibration Conference (SAE, Warrendale PA, 1995) 12N8

Three-dimensional effects in cascade-gust interaction, Wave Motion 23(4) 321-337 (Jun 1996), 12A277

Active acoustic noise cancellation with audio signal enhancement based on an almost-symmetrical time-varying autoregressive-moving average model, J Acoust Soc Am 99(6) 3528-3538 (Jun 1996), 12A291

Active noise control of enclosed harmonic fields by using BEM-based optimization techniques, Appl Acoust 48(1) 15-32 (1996), 12A292

Experimental study on sound insulation of membranes with small weights for application to membrane structures, Appl Acoust 48(1) 71-84 (1996), 12A293

Feedforward and feedback control strategy for active noise cancellation in ducts, J Dyn Syst Meas Control 118(2) 372-378 (Jun 1996), 12A294

Improvement in the effect of drainage asphalt road surface on noise reduction, Appl Acoust 47(3) 189-204 (1996), 12A295

Noise barriers in a refracting atmosphere, Appl Acoust 47(3) 217-238 (1996), 12A296

Noise reduction characteristics of porous elastic road surfaces, Appl Acoust 47(3) 239-250 (1996), 12A297

Structural acoustics and active control of interior noise in a ribbed cylindrical shell, J Acoust Soc Am 99(6) 3497-3512 (Jun 1996), 12A298

Study on personal noise exposure in China, Appl Acoust 48(1) 59-70 (1996), 12A299

Study on the acoustic transmission loss of a rigid perforated screen, Appl Acoust 47(4) 303-318 (1996), 12A300

Timbral aspects of reproduced sound in small rooms - II, J Acoust Soc Am 99(6) 3539-3549 (Jun 1996), 12A301

Plate-damping measurements in a single reverberation room, Appl Acoust 47(3) 251-261 (1996), 12A317

172Y. Computational techniques

Asymptotic solution of acoustic nonlinear wave equation with friction, Arch Acoust 20(3) 271-276 (1995), 1A344

Constant false-alarm rate array detection of radom signals in spherically invariant noise, J Acoust Soc Am 98(2) 931-937 (Aug 1995), 1A345

Low-frequency sound propagation modeling over a locally reacting boundary with the parabolic approximation, J Acoust Soc Am 98(2) 1130-1137 (Aug 1995), 1A346

Multichannel impulse responses for outdoor sound propagation, J Acoust Soc Am 98(2) 1169-1177 (Aug 1995), 1A347

Near-field acoustic intensity mapping using a closed surface, J Acoust Soc Am 98(2) 973-980 (Aug 1995), 1A348

Perturbation theory for travel times, J Acoust Soc Am 98(3) 1565-1569 (Sep 1995), 1A349

Practial application of the Galerkin method to the broadband calculation of normal modes for underwater acoustics, J Acoust Soc Am 98(3) 1682-1698 (Sep 1995), 1A350

Reconstruction of depth-dependent flow in a moving half-space using transient acoustic plane waves, J Acoust Soc Am 98(3) 1778-1785 (Sep 1995), 1A351

Spherical expansions of time-domain acoustic fields: Application to near-field scanning, J Acoust Soc Am 98(2) 1204-1215 (Aug 1995), 1A352

Temperature increase in a two-layer obstetric model of tissues in the case of linear and nonlinear propagation of a continuous ultrasonic wave, Arch Acoust 20(3) 237-246 (1995), 1A353

Variational principle and energy integrals in a complex sound intensity field, J Acoust Soc Am 98(2) 1163-1168 (Aug 1995), 1A354

Acoustic FE formulation of a flexible porous material: A correction for inertial effects, J Sound Vib 185(4) 559-580 (Aug 1995), 2A233

Estimation of parameters of a non-stationary random process due to a moving source based on the covariance-equivalent model, Mech Syst Signal Processing 9(5) 509-525 (Sep 1995), 2A234

Investigation using the BEM into the acoustic field resulting from concave loudspeaker-type structures, Acoust Lett 18(6) 103-110 (Dec 1994), 2A235

Parallel multidomain iterative algorithms for the Helmholtz wave equation, Appl Numer Math 17(4) 411-429 (Aug 1995), 2A236

Solution of unbounded domain problems using elliptic artifical boundaries, Commun Numer Methods Eng 11(9) 735-741 (Sep 1995), 2A237

Transparent acoustic source condition applied to the Euler equations, AIAA J 33(9) 1736-1738 (Sep 1995), 2T238

Use of the Waterhouse correction, J Sound Vib 186(2) 223-230 (Sep 1995), 2A239

Analysis of the propagation of plane acoustic waves in passive periodic materials using the FEM, J Acoust Soc Am 98(5) 2792-2800 (Nov 1995), 3A291

Bandwidth of diffusors based upon the quadratic residue sequence, J Acoust Soc Am 98(5) 2575-2579 (Nov 1995), 3A292

Computational aeroacoustics: Issues and methods, AIAA J 33(10) 1788-1796 (Oct 1995), 3A293

Doppler speed and range estimation using frequency and amplitude estimates, J Acoust Soc Am 98(5) 2560-2566 (Nov 1995), 3A294

Efficient parallel sampling in vector field tomography, Inverse Prob 11(5) 995-1003 (Oct 1995), 3A295

Estimation of locations and strengths of broadband planar and spherical noise sources using coherent signal subspace, J Acoust Soc Am 98(4) 2082-2093 (Dec 1995), 3A296

Estimation of the spatial impulse response of an ultrasonic transducer using a tomographic approach, J Acoust Soc Am 98(4) 2094-2103 (Dec 1995), 3A297

Evaluation of reverberation times using a nonlinear regression approach, J Acoust Soc Am 98(4) 2112-2121 (Dec 1995), 3A298

Fast converging binomial series for radiation field calculation, J Acoust Soc Am 98(5) 2819-2824 (Nov 1995), 3A299

Floquet analysis of guided waves in periodically layered composites, J Acoust Soc Am 98(4) 2336-2342 (Dec 1995), 3A300

Higher order 3D fundamental solutions to the Helmholtz and the modified Helmholtz equations, Eng Anal Boundary Elements 15(3) 289-293 (1995), 3A301

Minimization of bias error due to windows in planar acoustic holography using a minimum error window, J Acoust Soc Am 98(4) 2104-2111 (Dec 1995), 3A302

Prewhitening for improved detection by matched-field processing in ice-ridging correlated noise, J Acoust Soc Am 98(5) 2726-2734 (Nov 1995), 3A303

Time-harmonics acoustic Bloch wave propagation in periodic waveguides - Part III: Nonlinear effects, J Acoust Soc Am 98(5) 2735-2744 (Nov 1995), 3A304

Low-energy components of vibroacoustic signal as the basis for diagnosis of defect formation, Machine Dyn Prob 12 7-126 (1995), 3A846

Toward the direct calculation of noise: Fluid-acoustic coupled simulation, AIAA J 33(12) 2271-2279 (Dec 1995), 4A309

Dispersion analysis and error estimation of Galerkin FEMs for the Helmholtz equation, Int J Numer Methods Eng 38(22) 3745-3774 (Nov 1995), 4A326

Evaluation of boundary conditions for computational aeroacoustics, AIAA J 33(11) 2006-2012 (Nov 1995), 4A327

Further validation and use of the FEM to room acoustics, J Sound Vib 187(2) 195-212 (Oct 1995), 4A328

Green function discretization for numerical solution of the Helmholtz equation, J Sound Vib 187(4) 553-568 (Nov 1995), 4A329

Numerical solution of a hypersingular integral equation in scattering theory, J Comput Appl Math 61(3) 345-360 (Aug 1995), 4A330

Generalized Debye series expansion: Treatment of the concentric and nonconcentric cylindrical fluid-fluid interfaces, J Acoust Soc Am 98(6) 3326-3342 (Dec 1995), 5A233

Genetic algorithm for active noise control actuator positioning, Mech Syst Signal Processing 9(6) 697-705 (Nov 1995), 5A278

Acoustic boundary condition for unsteady 1D flow calculations, J Sound Vib 188(1) 85-110 (Nov 1995), 5A282

Application of shaping deconvolution to the generation of arbitrary acoustic pulses with conventional sonar transducers, J Sound Vib 188(1) 131-144 (Nov 1995), 5A283

Applications of inverse beamforming theory, J Acoust Soc Am 98(6) 3250-3261 (Dec 1995), 5A284

Direct time integration methods for structural acoustics and far field scattering computations, J Vib Acoust 117(4) 488-492 (Oct 1995), 5A285

Effective measures for nonstationary microscale stiffness variation using multiresolution decomposition, J Acoust Soc Am 98(6) 3516-3526 (Dec 1995), 5A286

Efficient computation of sound field above ground in horizontally stratified media using a Wentzel-Kramers-Brillouin-type approximation with Airy functions, J Acoust Soc Am **98**(6) 3405-3411 (Dec 1995), 5A287

Finite-difference time-domain simulation of low-frequency room acoustic problems, J Acoust Soc Am **98**(6) 3302-3308 (Dec 1995), 5A288

Generalized FEM for solving the Helmholtz equation in 2D with minimal pollution, Comput Methods Appl Mech Eng **128**(3-4) 325-359 (Dec 1995), 5A289

Hybrid method for predicting the complete scattering function from limited data, J Acoust Soc Am **98**(6) 3469-3481 (Dec 1995), 5A290

Wave space resolution in ultrasonic scattering measurements, J Acoust Soc Am **98**(6) 3050-3058 (Dec 1995), 5A291

Bayesian modeling of acoustic signals for seafloor identification, J Acoust Soc Am **99**(1) 223-233 (Jan 1996), 6A257

Born-type schemes for the acoustic probing of 1D fluid media from time-harmonic planar reflection coefficients at two incidences, J Acoust Soc Am **99**(1) 243-253 (Jan 1996), 6A258

Genetic algorithm-based method for synthesis of low peak amplitude signals, J Acoust Soc Am **99**(1) 433-443 (Jan 1996), 6A259

Propagant phase in reverberant environments, J Acoust Soc Am **99**(1) 314-323 (Jan 1996), 6A260

Ray chaos and eigenrays, J Acoust Soc Am **99**(1) 185-195 (Jan 1996), 6A261

Techniques to isolate dolphin whistles and other tonal sounds from background noise, Acoust Lett **18**(10) 189-193 (Apr 1995), 6A262

Boundary conditions and the source term for one-way acoustic depth extrapolation, Geophys **61**(1) 244-252 (Feb 1996), 6A1245

Direct numerical simulation of acoustic-shear flow interactions in 2D ducts, AIAA J **34**(2) 237-243 (Feb 1996), 7A330

Determination of the directivity of a planar noise source by means of nearfield acoustical holography - Part III: Measurements on homogeneous, profiled and composite panels, J Sound Vib **189**(3) 369-398 (Jan 1996), 7A359

Finite frequency band averaging effects in the statistical energy analysis of two continuous 1D subsystems, J Sound Vib **189**(4) 443-476 (Feb 1996), 7A360

Forward coupled-mode propagation modeling for coastal acoustic tomography, J Acoust Soc Am **99**(2) 793-802 (Feb 1996), 7A361

Near-field computation for sound propagation above ground: Using complex image theory, J Acoust Soc Am **99**(2) 755-760 (Feb 1996), 7A362

Pade approach for eigenvalue identification in underwater acoustic normal mode computations, J Acoust Soc Am **99**(2) 831-835 (Feb 1996), 7A363

Sound propagation over impedance discontinuities with the parabolic approximation, J Acoust Soc Am **99**(2) 761-767 (Feb 1996), 7A364

Using high-order accurate essentially nonoscillatory schemes for aeroacoustic applications, AIAA J **34**(2) 244-250 (Feb 1996), 7A365

Incomplete block factorization preconditioning for linear systems arising in the numerical solution of the Helmholtz equation, Appl Numer Math **19**(4) 495-508 (Jan 1996), 8A256

Low-dissipation and low-dispersion Runge-Kutta schemes for computational acoustics, J Comput Phys **124**(1) 177-191 (Mar 1996), 8T257

Solution of an inverse scattering problem in 1D acoustic media, Comput Methods Appl Mech Eng **129**(1-2) 91-105 (Jan 1996), 8A258

Acoustic modeling of surface sources - Part I: Piston model, discretizing error, axisymmetrical problem, Arch Acoust **20**(4) 311-326 (1995), 9A103

Acoustic modeling of surface sources - Part II: Piston model, asymmetrical function of vibration velocity, discretizing error, axisymmetrical problem, Arch Acoust **20**(4) 327-345 (1995), 9A377

Acoustic modeling of surface sources - Part III: Piston model, error of the model, axisymmetrical problem, Arch Acoust **20**(4) 347-359 (1995), 9A378

Acoustical modeling of the surface sources - IV: Interpolation model, axisymmetric problem, Arch Acoust **21**(1) 75-84 (1996), 9A379

Application of acoustic FE models to finding the reverberation times of irregular rooms, Acustica **82**(1) 54-64 (Feb 1996), 9A380

Decomposition of the time reversal operator: Detection and selective focusing on two scatterers, J Acoust Soc Am **99**(4) 2067-2076 (Apr 1996), 9A381

Exact absorbing boundary condition and its application to 3D scattering from thin dispersive structures, J Acoust Soc Am **99**(4) 1854-1861 (Apr 1996), 9A382

Finite-difference time-domain approach to underwater acoustic scattering problems, J Acoust Soc Am **99**(4) 1924-1931 (Apr 1996), 9A383

Inverse problem for the Helmholtz equation, Inverse Prob **12**(2) 139-156 (Apr 1996), 9A384

New efficient algorithm for computational aeroacoustics on parallel processors, J Comput Phys **125**(1) 135-149 (Apr 1996), 9T385

Parallel processing approach to acoustic tomography, J Acoust Soc Am **99**(4) 2142-2147 (Apr 1996), 9A386

Saturation of nonlinear spherical and cylindrical sound waves, J Acoust Soc Am **99**(4) 1960-1964 (Apr 1996), 9A387

Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, J Dyn Syst Meas Control **118**(1) 106-112 (Mar 1996), 9A1340

Acoustic-mean flow interaction and vortex shedding in solid rocket motors, Int J Numer Methods Fluids **22**(6) 449-465 (Mar 1996), 9A1342

Asymptotic and a posteriori error estimates for BE solutions of hypersingular integral equations, SIAM J Numer Anal **33**(2) 666-685 (Apr 1996), 10A54

Acoustic radiation force and streaming induced by focused nonlinear ultrasound in a dissipative medium, J Acoust Soc Am **99**(5) 2791-2798 (May 1996), 10A371

Analysis of 3D transient acoustic wave propagation using the boundary integral equation method, Int J Numer Methods Eng **39**(8) 1419-1431 (Apr 1996), 10A372

Calculation of the radiated sound field using an open Kirchhoff surface, AIAA J **34**(5) 909-916 (May 1996), 10A373

Comments on "Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow", J Sound Vib **191**(4) 606-611 (Apr 1996), 10T374

Computation of sound radiating from engine inlets, AIAA J **34**(5) 894-901 (May 1996), 10A375

Explicit time-domain solution for the reflection from a stratified acoustic half-space obtained by the boundary control method, J Acoust Soc Am **99**(5) 2714-2719 (May 1996), 10A376

FE mode-matching schemes for the exterior Helmholtz problem and their relationship to the FE-DtN approach, Commun Numer Methods Eng **12**(4) 257-267 (Apr 1996), 10A377

Green's function approach to wave propagation and potential flow around obstacles in infinite cylindrical channels, Math Methods Appl Sci **19**(8) 607-638 (May 1996), 10A378

Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow, J Sound Vib **191**(4) 505-518 (Apr 1996), 10A379

Non-singular boundary integral equation for acoustic problems, J Sound Vib **192**(1) 263-279 (Apr 1996), 10A380

Space-time FEM for the exterior structural acoustics problem: Time-dependent radiation boundary conditions in two space dimensions, Int J Numer Methods Eng **39**(10) 1635-1657 (May 1996), 10A381

Stochastic inverse method for ocean acoustic tomography studies: A simulation experiment, Acoust Lett **19**(1) 15-19 (Jul 1995), 10A382

Theoretical study of perturbation method for acoustic multipole logging in anisotropic formation, J Acoust Soc Am **99**(5) 2674-2685 (May 1996), 10A383

Time-domain impedance boundary conditions for computational aeroacoustics, AIAA J **34**(5) 917-923 (May 1996), 10A384

Transient detection using the nonstationary bispectrum, J Acoust Soc Am **99**(5) 3018-3028 (May 1996), 10A385

Use of the method of moments with finite difference operator in acoustics, J Acoust Soc Am **99**(5) 2667-2673 (May 1996), 10A386

Spatial transformation of the discrete sound field from a propeller, AIAA J **34**(6) 1097-1102 (Jun 1996), 11A242

Modal analysis of the acoustic field radiated from an unflanged cylindrical duct: Theory and measurement, Acustica **82**(2) 201-206 (Apr 1996), 11A250

Theoretical investigation of sound transmission through periodic multilayer loss-free fluid media, Acustica **82**(2) 207-212 (Apr 1996), 11A253

Efficient procedure for evaluation of sound energy density in a rectangular room, Acustica **82**(2) 380-382 (Apr 1996), 11T260

Bandwidth limitation effects on low-frequency impulse noise prediction and assessment, Appl Acoust **47**(4) 331-344 (1996), 12A302

Computational acoustics: Noise reduction via diffraction by barriers with different geometries, Comput Methods Appl Mech Eng **130**(1-2) 81-91 (Mar 1996), 12A303

Explicit residual-based a posteriori error estimation for FE discretizations of the Helmholtz equation: Computation of the constant and new measures of error estimator quality, Comput Methods Appl Mech Eng **131**(3-4) 335-363 (May 1996), 12A304

Far-field filtering operators for suppression of reflections from artificial boundaries, SIAM J Numer Anal **33**(3) 1014-1047 (Jun 1996), 12A305

Incorporation of absorbing boundary conditions into acoustic and elastic wave propagation problems solved by spectral time-marching, Adv Eng Software **26**(2) 161-167 (1996), 12A306

Numerical solution of the direct scattering problem for an open sound-hard arc, J Comput Appl Math **71**(2) 343-356 (Jul 1996), 12A307

Pseudospectra for the wave equation with an absorbing boundary, J Comput Appl Math **69**(1) 125-142 (Apr 1996), 12A308

Renormalization method for nonlinear pulsed sound beams, J Acoust Soc Am **99**(6) 3319-3328 (Jun 1996), 12A309

Sensitivity of the wave-number domain field separation method for scattering, J Acoust Soc Am **99**(6) 3550-3557 (Jun 1996), 12A310

Space-time FEM for the exterior acoustics problem, J Acoust Soc Am **99**(6) 3297-3311 (Jun 1996), 12A311

Time-domain BEM analysis for the 2D scalar wave equation: Initial conditions contributions to space and time derivatives, Int J Numer Methods Eng **39**(13) 2169-2188 (Jul 1996), 12A312

Time-domain modeling of finite-amplitude sound in relaxing fluids, J Acoust Soc Am **99**(6) 3312-3318 (Jun 1996), 12A313

172Z. Experimental techniques

Acousto-optic imaging of focused ultrasound pressure fields, J Acoust Soc Am **98**(3) 1751-1756 (Sep 1995), 1A355

Acoustic emission in moistened bricks and wood, Arch Acoust **20**(3) 277-286 (1995), 1A356

Acoustical principles of a dynamic compressibility apparatus with internal reference, J Acoust Soc Am **98**(2) 1034-1041 (Aug 1995), 1A357

Enhanced bandwidth multilayer transducers for imaging applications, Arch Acoust **20**(1) 77-90 (1995), 1A358

Fiber-embedded mandrel-stiffened planar acoustic sensor, J Acoust Soc Am **98**(3) 1618-1622 (Sep 1995), 1A359

Fiber-optic microphone based on a combination of Fabry-Perot interferometry and intensity modulation, J Acoust Soc Am **98**(2) 1042-1046 (Aug 1995), 1A360

Generation and detection of acoustic waves in microwave cavities, Arch Acoust **20**(2) 151-169 (1995), 1A361

Inlet acoustic mode measurements using a continuously rotating rake, J Aircraft **32**(4) 761-767 (Aug 1995), 1A362

Measurements of the performance of an acoustical calibration duct, Appl Acoust **45**(4) 377-384 (1995), 1A363

Surface acoustic wave spectroscopy investigation of electrical properties of the near-surface region GaAs crystals, Arch Acoust **20**(2) 139-150 (1995), 1A364

Effective algorithm for measuring diastolic artery diameters, Arch Acoust **20**(1) 65-76 (1995), 1A1460

Non-invasive estimation of wall shear rate in humans by means of ultrasound, Arch Acoust **20**(1) 57-63 (1995), 1A1463

Spherical beam-forming and music methods for the estimation of location and strength of spherical sound sources, Mech Syst Signal Processing **9**(5) 569-588 (Sep 1995), 2A240

Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), J Vib Eng **8**(2) 111-118 (Jun 1995), 3A216

Advanced time domain wave-number sensing for structural acoustic systems - Part III: Experiments on active broadband radiation control of a simply supported plate, J Acoust Soc Am **98**(5) 2613-2621 (Nov 1995), 3A305

Detection of acoustic second harmonics in solids using a heterodyne laser interferometer, J Acoust Soc Am **98**(5) 2745-2752 (Nov 1995), 3A306

Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, J Acoust Soc Am **98**(5) 2622-2627 (Nov 1995), 3A307

Velocity variabilities and other physical properties of marine sediments measured by crosswell acoustic tomography, J Acoust Soc Am **98**(4) 2235-2248 (Dec 1995), 3A308

Aircraft fuselage noise transmission measurements using a reciprocity technique, J Sound Vib **187**(3) 467-483 (Nov 1995), 4A331

Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), Proc JSCE **525**(I-33) 171-179 (Oct 1995), 5A259

Improved periodic spectral analysis with application to diesel vibration data, J Acoust Soc Am **98**(6) 3285-3301 (Dec 1995), 5A292

Measurements of harmonic generation in a focused finite-amplitude sound beam, J Acoust Soc Am **98**(6) 3439-3442 (Dec 1995), 5A293

Nonlinear distortion of finite-amplitude ultrasonic waves investigated by optical heterodyne interferometry, J Acoust Soc Am **98**(6) 3456-3461 (Dec 1995), 5A294

Sound-pressure response measurement in small rooms over a finite region, J Acoust Soc Am **98**(6) 3279-3284 (Dec 1995), 5A295

Acoustic lance: New *in situ* seafloor velocity profiles, J Acoust Soc Am **99**(1) 234-242 (Jan 1996), 6A263

Coincidence echo statistics, J Acoust Soc Am **99**(1) 266-271 (Jan 1996), 6A264

Matched-field source localization in a range-dependent environment, J Acoust Soc Am **99**(1) 272-282 (Jan 1996), 6A265

Performance bounds on acoustic thermometry of ocean climate in the presence of mesoscale sound-speed variability, J Acoust Soc Am **99**(1) 254-265 (Jan 1996), 6A266

Comparison of measured and predicted lateral distribution of sonic boom overpressures from the US Air Force sonic boom database, J Acoust Soc Am **99**(2) 768-776 (Feb 1996), 7A366

Construction of a simply supported rectangular plate for noise and vibration studies, Exp Tech **20**(1) 24-26 (Feb 1996), 7A367

Experimental study of enchanced backscattering from a highly irregular, acoustic-elastic interface, J Acoust Soc Am **99**(2) 880-882 (Feb 1996), 7A368

Influence of microphone vents on measurements of acoustic intensity and impedance, J Acoust Soc Am **99**(2) 969-978 (Feb 1996), 7A369

Application of a neural network to classify the acoustic emission waveforms emitted by the concrete under thermal stress, Arch Acoust **21**(1) 89-98 (1996), 9A388

Critical properties of acoustic wave absorption in the benzonitrile-isooctane system, Arch Acoust **21**(1) 53-63 (1996), 9A389

Evaluation of 1-3 connectivity composite transducers for air-coupled ultrasonic applications, J Acoust Soc Am **99**(4) 2148-2157 (Apr 1996), 9A390

Experimental demonstration of the frequency dependence of the effective scatterer number density, J Acoust Soc Am **99**(4) 1932-1936 (Apr 1996), 9A391

Experimental investigations of shock wave propagation in the postfocal region of a focused sound field, Arch Acoust **21**(1) 65-73 (1996), 9A392

Losses in tubular acoustic systems: Theory and experiment in the sampled time and frequency domains, Acustica **82**(1) 1-8 (Feb 1996), 9A393

Measurement technique of shock wave pulses at extremely high pressures, Arch Acoust **21**(1) 37-51 (1996), 9A394

Novel technique of pulse-echo ultrasound detection in the RF-frequency range, Acustica **82**(1) 27-31 (Feb 1996), 9A395

Parameter resolution bounds that depend on sample size, J Acoust Soc Am **99**(5) 2851-2861 (May 1996), 10A387

Determination of the absolute value of ultrasonic power by means of thermoacoustic sensors, Acustica **82**(2) 274-279 (Apr 1996), 11A261

Determination of the phase of an ultrasound field using light diffraction, Acustica **82**(2) 376-379 (Apr 1996), 11T262

Technique for experimental acoustic modal analysis, Proc Inst Mech Eng C **210**(C2) 143-151 (1996), 11A263

Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, Appl Acoust **47**(4) 283-289 (1996), 12A281

Determination of the 50% probability zone for an acoustic source-locating system operating in the ground plane, Appl Acoust **47**(3) 205-216 (1996), 12A314

Effects of nonlinear interaction on measurements of frequency-dependent attenuation coefficients, J Acoust Soc Am **99**(6) 3380-3384 (Jun 1996), 12A315

Improved interferometric techniques for measuring flextensional transducer vibration patterns underwater, J Sound Vib **193**(4) 877-890 (Jun 1996), 12A316

Plate-damping measurements in a single reverberation room, Appl Acoust **47**(3) 251-261 (1996), 12A317

Spherical acoustical holography of low-frequency noise sources, Appl Acoust **48**(1) 85-95 (1996), 12A318

III. AUTOMATIC CONTROL

200. SYSTEMS THEORY AND DESIGN

200A. General theory

Calculation of second and higher order eigenvector derivatives, J Guidance Control Dyn **18**(4) 919-921 (Aug 1995), 1T80

Eigenvector derivatives for mechanical second-order systems, J Guidance Control Dyn **18**(4) 899-906 (Aug 1995), 1A81

Natural frequencies of structures with uncertain but nonrandom parameters, J Optim Theory Appl **86**(3) 669-683 (Sep 1995), 2A773

Equivalence of second-order impedance control and proportional gain explicit force control, Int J Robotics Res **14**(6) 574-589 (Dec 1995), 4A332

Analysis of Piecewise Linear Dynamical Systems (Wiley, New York, 1995) 5N12
Analysis of linear nonconservative vibrations, J Appl Mech 62(3) 685-691 (Sep 1995), 5A09
Finding the transfer function of time invariant linear system without computing (sI - A)$^{-1}$, Int J Control 62(6) 1517-1522 (Dec 1995), 5T296
Generalized Cayley-Hamilton theorem for polynomial matrices with arbitrary degree, Int J Control 62(6) 1341-1349 (Dec 1995), 5T297
Robust l_∞ stability and performance, Syst Control Lett 26(5) 305-312 (Dec 1995), 5A300
Analysis of the dereverberated transfer function in finite dimensions, J Guidance Control Dyn 19(1) 91-98 (Feb 1996), 6A267
Averaged stochastic approximation for linear regression, SIAM J Control Optim 34(1) 31-61 (Jan 1996), 7T377
Feedback representation of precompensators: The general case, Int J Control 63(1) 195-206 (Jan 1996), 8T259
Study of variational law of information entropy passing through systems (Chinese), J Dalian Univ Tech 35(4) 544-548 (Aug 1995), 8A260
Continuous path control using clothoid curves, Int J Japan Soc Precision Eng 29(4) 331-336 (Dec 1995), 9A396
Characterization of bounded-input bounded-output stability for linear time-invariant systems with distributional inputs, SIAM J Control Optim 34(3) 987-1000 (May 1996), 10T391
Thevenin decomposition and large-scale optimization, J Optim Theory Appl 89(1) 1-15 (Apr 1996), 10T417
Calculation of discrete-time process noise statistics for hybrid continuous and discrete-time applications, Optimal Control Appl Methods 17(2) 151-155 (Jun 1996), 11A270
Special Issue on Applications of Neural Networks in Process Engineering and System Dynamics, J Syst Eng 6(3) 128-222 (1996), 12A464

200B. Controllability, observability, realizability

Constrained controllability of retarded dynamical systems, Appl Math Comp Sci 5(3) 455-468 (1995), 1A365
General response formula, local reachability and local controllability of a class of 2D bilinear systems, Bull Polish Acad Sci Tech Sci 43(2) 191-201 (1995), 1A366
Generalized 2D continuous-discrete linear systems with delays, Appl Math Comp Sci 5(3) 439-454 (1995), 1A367
Partially defined control systems: Controllability and stabilizability, Appl Math Comp Sci 5(3) 481-490 (1995), 1A368
U-reachability and U-controllability of 2D Roesser model, Bull Polish Acad Sci Tech Sci 43(1) 31-37 (1995), 1A369
Exact controllability and stabilization of a vibrating string with an interior point mass, SIAM J Control Optim 33(5) 1357-1391 (Sep 1995), 2T241
Balancing model order reduction technique for descriptor-like systems, J Vib and Control 1(4) 481-491 (Nov 1995), 3A309
Observability of a specially structured model, J Vib and Control 1(4) 493-499 (Nov 1995), 3A310
Estimating the distance to uncontrollability: A fast method and a slow one, Syst Control Lett 26(4) 275-281 (Nov 1995), 4T333
Modal controllability and observability of general mechanical systems, J Vib Acoust 117(4) 510-515 (Oct 1995), 5A298
Regional controllability of distributed parameter systems, Int J Control 62(6) 1351-1365 (Dec 1995), 5A299
Open-closed loop control of seismic response of structures with active mass driver system (Japanese), Proc JSCE 525(I-33) 201-211 (Oct 1995), 5A1324
Generalized PI controllability, Int J Control 63(2) 307-330 (Jan 1996), 8A261
Exploration of substitution of repeated mode subspaces for closely spaced mode subspaces, Acta Mech Sinica 12(1) 65-72 (1996), 10A388
Null controllability of nonlinear infinite delay systems with time varying multiple delays in control, Appl Math letters 9(3) 115-121 (May 1996), 10A389
Recurrent neural networks coupled with linear systems: Observability in continuous and discrete time, Syst Control Lett 27(2) 109-116 (Feb 1996), 10A390
Regularity and exact controllability for a beam with piezoelectric actuator, SIAM J Control Optim 34(3) 922-930 (May 1996), 10T442
Robust observability for a class of time-varying discrete-time uncertain systems, Syst Control Lett 27(5) 261-266 (May 1996), 12T319

200D. Stability, robustness

Trends in Control: A European Perspective - Communications and Control Eng Series (Springer-Verlag, New York, 1995) 2N19
New method for computing delay margins for stability of linear delay systems, Syst Control Lett 26(2) 107-117 (Sep 1995), 2A252
Constrained stability with an assigned initial condition set, Int J Control 62(3) 601-617 (Sep 1995), 2T254
New results on closed-loop stability in the presence of control saturation, Int J Control 62(3) 619-631 (Sep 1995), 2A256
Robust control of MIMO nonlinear systems with mismatched uncertainty, Int J Control 62(4) 961-981 (Oct 1995), 2A273
Output feedback stabilization using variable structure control, Int J Control 62(4) 831-848 (Oct 1995), 2T282
Limit systems, limit gains and non-generic behaviors arising in adaptive stabilizing control, Dyn Stability Syst 10(3) 233-254 (1995), 3A311
Robust stability region for linear continuous-time systems, Bull Polish Acad Sci Tech Sci 43(3) 315-329 (1995), 3A312
Technical stability of the system of automatic control with variable structure (Russian), Prikl Mekh (Appl Moch) 30(10) 74-78 (1994), 3A313
Method for robust stabilization related to the Popov stability criterion, Int J Control 62(5) 1105-1115 (Nov 1995), 3T317
Computation-oriented expression of a non-conservative condition for robust stability of sampled-data systems, Int J Control 62(5) 1085-1104 (Nov 1995), 3T318
Nonlinear feedback control with global stabilization, Dyn Control 5(4) 321-346 (Oct 1995), 3T330
Sliding mode stabilization of uncertain systems using only output information, Int J Control 62(5) 1129-1144 (Nov 1995), 3T331
Periodic stability of nonlinear flexible systems with damping, SIAM J Control Optim 33(6) 1778-1800 (Nov 1995), 4T334
Robust l_∞ stability and performance, Syst Control Lett 26(5) 305-312 (Dec 1995), 5A300
Model simplification and stability robustness with elastic flight vehicles, J Dyn Syst Meas Control 117(3) 336-342 (Sep 1995), 5A312
Nonlinear Feedback Control Systems: An Operator Theory Approach (Academic, San Diego; CA, 1993) 6R9
Robustness of minimax controllers to nonlinear perturbations, J Optim Theory Appl 87(3) 631-678 (Dec 1995), 6T268
Robust dynamic output feedback sliding-mode control of singular perturbation systems, JSME Int J Ser C 38(4) 719-726 (Dec 1995), 6A305
Asymptotic stability of the optimal filter with respect to its initial condition, SIAM J Control Optim 34(1) 226-243 (Jan 1996), 7T370
Robust interval stability, persistence, and partial stability on Lotka-Volterra systems with time-delay, Appl Math Comput 75(2-3) 103-115 (Mar 1996), 7A371
Smooth converse lyapunov theorem for robust stability, SIAM J Control Optim 34(1) 124-160 (Jan 1996), 7A372
Decentralized output feedback fault-tolerant control for uncertain large-scale systems, Chinese J Aeronaut 8(3) 222-229 (Aug 1995), 7A420
Dynamic buckling of discrete structural systems under combined step and static loads, Nonlinear Dyn 9(3) 249-264 (Mar 1996), 7A676
Generalized PI controllability, Int J Control 63(2) 307-330 (Jan 1996), 8A261
Adaptive stabilization using a variable sampling rate, Int J Control 63(1) 107-119 (Jan 1996), 8T262
Conditions for robustness and nonrobustness of the stability of feedback systems with respect to small delays in the feedback loop, SIAM J Control Optim 34(2) 572-600 (Mar 1996), 8T263
Literal Nyquist stability criterion for MIMO control systems, Int J Control 63(1) 55-65 (Jan 1996), 8A264
Robust adaptive stabilization of a class of systems under structured nonlinear perturbations with application to interconnected systems, Int J Control 63(1) 183-194 (Jan 1996), 8T265
Stability of discrete non-unit memory linear repetitive processes: A 2D systems interpretation, Int J Control 63(3) 457-482 (Feb 1996), 8T266
Multivariable stability margin optimization: A spectral tangential interpolation approach, Int J Control 63(3) 577-590 (Feb 1996), 8T285
Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, JSME Int J Ser C 39(1) 73-77 (Mar 1996), 9A397
Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, JSME Int J Ser C 39(1) 67-72 (Mar 1996), 9A398
Stabilization of nonlinear singularly perturbed multiple time-delay systems by dither, J Dyn Syst Meas Control 118(1) 176-181 (Mar 1996), 9A408
Experimental robustness study of a second-order sliding mode controller, J Dyn Syst Meas Control 118(1) 184-187 (Mar 1996), 9A415
Characterization of bounded-input bounded-output stability for linear time-invariant systems with distributional inputs, SIAM J Control Optim 34(3) 987-1000 (May 1996), 10T391
Infinite-dimensional continuous-time linear systems: Stability and structure analysis, SIAM J Control Optim 34(3) 757-812 (May 1996), 10T392
Stability of nonlinear polynomial ARMA models and their inverse, Int J Control 63(5) 885-906 (Mar 1996), 10T393
Synchronization in the Lorenz system: Stability and robustness, Nonlinear Dyn 10(1) 89-103 (May 1996), 10T394
Robust design for unconstrained optimization problems using the Taguchi method, AIAA J 34(5) 1059-1063 (May 1996), 10A1029
Link between input-output stability and Lyapunov stability, Syst Control Lett 27(4) 243-248 (Apr 1996), 11T264
Robustness of a minimal observer synthesis algorithm, Int J Control 64(1) 141-154 (May 1996), 11A265
Stability analysis of a robust PD control law for robot manipulators, J Robotic Syst 13(6) 353-358 (Jun 1996), 11A266
Decentralized robust control design for uncertain delay systems, J Optim Theory Appl 89(2) 311-323 (May 1996), 11A272
Frequency domain method for decentralized stabilization based on quasi-block diagonal dominance, Int J Control 64(1) 41-59 (May 1996), 11T273
Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series (Prentice Hall, Upper Saddle River, NJ, 1995) 12R12
Local stability analysis of the approximate harmonic balance solutions, Nonlinear Dyn 10(2) 105-133 (Jun 1996), 12A102
Generation of stable limit cycles in controllable linear systems, Syst Control Lett 28(1) 43-48 (Jun 1996), 12T112
Absolute stability of sampled-data systems with a sector nonlinearity, Syst Control Lett 27(5) 293-304 (May 1996), 12A320
Robust stabilization of large-scale time-delay systems with estimated state feedback, J Optim Theory Appl 89(3) 543-559 (Jun 1996), 12A321
Robustness of adaptive control for stochastic systems, Int J Control 64(3) 463-482 (Jun 1996), 12T322
Stability of a class of discrete event systems using Markov chains, Int J Control 64(3) 391-408 (Jun 1996), 12T323
Stability of parallel learning control systems, JSME Int J Ser C 39(2) 249-256 (Jun 1996), 12A338
Study on robustness of iterative learning control with non-zero initial error, Int J Control 64(3) 345-359 (Jun 1996), 12A339
Inverse optimality in robust stabilization, SIAM J Control Optim 34(4) 1365-1391 (Jul 1996), 12T340
Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, Syst Control Lett 27(5) 315-324 (May 1996), 12T376

200E. Identification and estimation

Parameter identification and modeling of longitudinal aerodynamics, J Aircraft 32(4) 726-731 (Aug 1995), 1A264
Identification of cylindrical shells with sets of reinforcing ribs by their acoustic Bragg diffraction (grating) patterns, Appl Acoust 45(4) 321-334 (1995), 1A317
Identification of linear stochastic systems through projection filters, J Guidance Control Dyn 18(4) 767-772 (Aug 1995), 1T370
Identification of weakly nonlinear systems using equivalent linearization, J Sound Vib 185(3) 473-481 (Aug 1995), 1A371
Nonlinear parametric identification using chaotic data, J Vib and Control 1(3) 291-305 (Aug 1995), 1A372
Utilization of acoustic emission signals in identification testing of machine elements, Acoust Lett 18(5) 78-83 (Nov 1994), 1A858
Trends in Control: A European Perspective - Communications and Control Eng Series (Springer-Verlag, New York, 1995) 2N19
Discrete-time system identification for electrohydraulic servo systems, J Syst Control Eng 209(I3) 165-177 (1995), 2A242
Perspective theory for motion and shape estimation in machine vision, SIAM J Control Optim 33(5) 1530-1559 (Sep 1995), 2A287
Identification of stiffness reductions using natural frequencies, J Eng Mech 121(10) 1106-1113 (Oct 1995), 2A699
Closed-loop system identification using the dual Youla control parametrization, Int J Control 62(5) 1175-1195 (Nov 1995), 3T314
Optimal guidance and nonlinear estimation for interception of accelerating targets, J Guidance Control Dyn 18(5) 959-968 (Oct 1995), 3A352
Ultrasonic wave propagation through a cracked solid, Wave Motion 22(3) 297-310 (Nov 1995), 4A239
Estimation of nonlinear stiffness parameters of rolling element bearings from random response of rotor-bearing systems, J Sound Vib 187(2) 229-239 (Oct 1995), 4A335
Identification of a nonlinear aerodynamic model of the F-14 aircraft, J Guidance Control Dyn 18(6) 1292-1297 (Dec 1995), 4T336
Semi-empirical modeling of nonlinear dynamic systems through identification of operating regimes and local models, Model Ident Control 16(4) 213-232 (Oct 1995), 4A337
Bayesian state estimation for tracking and guidance using the bootstrap filter, J Guidance Control Dyn 18(6) 1434-1443 (Dec 1995), 4T339
System and parametric identification of flexible connections in steel framed structures, Eng Struct 17(8) 581-595 (Sep 1995), 4A1333
Variable residue method for modal parameter estimation, J Vib Acoust 117(4) 392-397 (Oct 1995), 5A101
Bias error due to windows for the Wigner-Ville distribution estimation, Mech Syst Signal Processing 9(6) 675-684 (Nov 1995), 5A301
Extraction of transient signals from nonperiodic dynamic responses, J Dyn Syst Meas Control 117(3) 270-276 (Sep 1995), 5A302
Identification of a class of nonlinear continuous-time systems using Hartley modulating functions, Int J Control 62(6) 1431-1451 (Dec 1995), 5T303
Identification of linear and nonlinear continuous time models from sampled data sets, J Syst Eng 5(4) 249-267 (1995), 5A304
Identification of physical parameters with memory in nonlinear systems, Int J Non-Linear Mech 30(6) 841-860 (Nov 1995), 5A305
Modal parameter estimation for piezostructures, J Vib Acoust 117(4) 431-438 (Oct 1995), 5A306
Modal parameter identification using an unknown colored random input, Mech Syst Signal Processing 9(6) 685-695 (Nov 1995), 5A307
Subspace based sytsem identification with periodic excitation signals, Syst Control Lett 26(5) 349-361 (Dec 1995), 5T308
Fourier series neural network and its application to system identification, J Dyn Syst Meas Control 117(3) 253-261 (Sep 1995), 5A342
Overtraining, regularization and searching for a minimum, with application to neural networks, Int J Control 62(6) 1391-1407 (Dec 1995), 5T345
Application of frequency domain adaptive infinite impulse response filtering for identification of flexible structure dynamics, Mech Syst Signal Processing 10(1) 65-91 (Jan 1996), 6A269
Dynamic system identification by neural network: A new fast learning method based on error back propagation, JSME Int J Ser C 38(4) 686-692 (Dec 1995), 6A270
Extraction of normal modes for highly couples incomplete systems with general damping, Mech Syst Signal Processing 10(1) 93-106 (Jan 1996), 6A271
Identification of acoustic-vibratory system by acoustic measurement, Shock Vib 3(1) 27-37 (1996), 6A272
Linear path identification of general non-linear systems, Mech Syst Signal Processing 10(1) 55-63 (Jan 1996), 6A273
Neural network for structural dynamic model identification, J Eng Mech 121(12) 1377-1381 (Dec 1995), 6A274
Spectral analysis for systems with hysteretic restoring force, Mech Syst Signal Processing 10(1) 19-28 (Jan 1996), 6A275
Global structure modeling using force-state component identification, J Guidance Control Dyn 19(1) 198-206 (Feb 1996), 6T280
Minimal dynamic characterization of tree-like multibody systems, Nonlinear Dyn 9(1-2) 165-184 (Feb 1996), 7A90
Identification of dynamic properties of isolated structures, Eng Struct 18(3) 240-246 (Mar 1996), 7A212
Aeroelastic model design using parameter identification, J Aircraft 33(1) 198-202 (Feb 1996), 7A296
Identification of NARMAX models on a modal base, J Sound Vib 189(2) 193-213 (Jan 1996), 7A373
Adaptive control via a simple switching algorithm, SIAM J Control Optim 34(1) 365-388 (Jan 1996), 7A376
Evolution of flight vehicle system identification, J Aircraft 33(1) 9-28 (Feb 1996), 7A981
Algorithm of frequency domain least squares method used in system identification (Chinese), J Dalian Univ Tech 35(4) 554-558 (Aug 1995), 8A267
Parameter identification of robot arm with repetitive control, Int J Control 63(2) 225-238 (Jan 1996), 8A268
Smoothing data with local instabilities for the identification of chaotic systems, Int J Control 63(3) 483-505 (Feb 1996), 8A269
Robust digital tracking with perturbation estimation via the Euler operator, Int J Control 63(2) 239-256 (Jan 1996), 8A294
Application of off-line and on-line identification techniques to building seismic response data, Earthquake Eng Struct Dyn 25(3) 269-290 (Mar 1996), 8A1346
Analysis of working possibilities of a power shovel, Eng Trans 43(3) 443-460 (1995), 9A166
Parametric identification of truss structures by using transient response, J Sound Vib 191(2) 273-287 (Mar 1996), 9A207

Extended Kalman estimation method based on the deferential operator transform (Chinese), J Comput Struct Mech Appl 12(4) 394-400 (Nov 1995), 9A399
Algorithms for processing space-time signals in systems with a random structure, J Machinery Manuf Reliab 5 89-95 (1995), 9A400
Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, J Dyn Syst Meas Control 118(1) 58-65 (Mar 1996), 9A423
Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, J Dyn Syst Meas Control 118(1) 106-112 (Mar 1996), 9A1340
Research on modeling stochastic structures (Chinese), J Vib Eng 9(1) 47-53 (Mar 1996), 10A131
Dynamic force identification for beamlike structures using an improved dynamic stiffness method, Shock Vib 3(3) 183-191 (1996), 10A144
Asymptotic properties of set membership identification algorithms, Syst Control Lett 27(3) 145-155 (Mar 1996), 10T395
Identification of dynamic load based on series expansion (Chinese), J Vib Eng 9(1) 1-8 (Mar 1996), 10A396
Identification of stochastic system and controller via projection filters, J Vib Acoust 118(2) 169-176 (Apr 1996), 10A397
Linear prediction approach in airborne adaptive arrays, Chinese J Aeronaut 9(1) 64-70 (Feb 1996), 10A398
Neural network approach to detection of changes in structural parameters, J Eng Mech 122(4) 350-360 (Apr 1996), 10A399
Parametric identification of systems with dry friction and nonlinear stiffness using a time series model, J Vib Acoust 118(2) 252-263 (Apr 1996), 10A400
State-set estimation algorithm for linear systems in the presence of bounded disturbances, Int J Control 63(4) 799-811 (Mar 1996), 10T401
Strong consistency and convergence rate of parameter identification for bilinear systems, Int J Control 63(5) 907-919 (Mar 1996), 10T402
Uniqueness of modal parameter estimation, J Sound Vib 192(2) 581-598 (May 1996), 10A403
Ultra-reliable board identification system, J Manuf Syst 15(2) 84-94 (1996), 10T475
Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, J Guidance Control Dyn 19(3) 643-649 (Jun 1996), 11A267
Optimal sensor placement for modal identification using system-realization methods, J Guidance Control Dyn 19(3) 729-731 (Jun 1996), 11T330
X-31A system identification using single-surface excitation at high angles of attack, J Aircraft 33(3) 485-490 (Jun 1996), 11A1032
Robust observability for a class of time-varying discrete-time uncertain systems, Syst Control Lett 27(5) 261-266 (May 1996), 12T319
Determination of frequency response functions from response measurements - I: Extraction of poles and zeros from response cepstra, Mech Syst Signal Processing 10(3) 293-317 (May 1996), 12A324
Determination of frequency response functions from response measurements - II: Regeneration of frequency response functions from poles and zeros, Mech Syst Signal Processing 10(3) 319-340 (May 1996), 12A325
Frequency domain structural system identification by observability range space extraction, J Dyn Syst Meas Control 118(2) 211-220 (Jun 1996), 12A326
Indirect identification of linear stochastic systems with known feedback dynamics, J Guidance Control Dyn 19(4) 836-841 (Aug 1996), 12A327
Measurement scheduling for recursive team estimation, J Optim Theory Appl 89(3) 615-636 (Jun 1996), 12T328
Nonlinear receding-horizon state estimation by real-time optimization technique, J Guidance Control Dyn 19(4) 863-870 (Aug 1996), 12A329
Optimal nonlinear estimation of linear stochastic systems: The multivariable extension, J Dyn Syst Meas Control 118(2) 350-353 (Jun 1996), 12A330
Processing of simultaneous mechanical random response signals: Integration, differentiation and phase shifts correction, Mech Syst Signal Processing 10(3) 277-291 (May 1996), 12A331
Statistical model validation, J Dyn Syst Meas Control 118(2) 226-236 (Jun 1996), 12A332
Iterative LQG controller design through closed-loop identification, J Dyn Syst Meas Control 118(2) 366-372 (Jun 1996), 12A374
Adaptive attitude control for an artificial satellite with mobile bodies, J Guidance Control Dyn 19(4) 948-953 (Aug 1996), 12A380
Effect of common process noise on two-sensor track fusion, J Guidance Control Dyn 19(4) 829-835 (Aug 1996), 12A384
Model based statistical process control for continuous systems, J Dyn Syst Meas Control 118(2) 283-289 (Jun 1996), 12A418
Experimental identification of a flow orifice using a neural network and the conjugate gradient method, J Dyn Syst Meas Control 118(2) 272-277 (Jun 1996), 12A424
Fault detection and isolation by functional continuous deadbeat observers, Int J Control 64(3) 425-439 (Jun 1996), 12A432

200F. Sensitivity

Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, J Sound Vib 187(4) 683-693 (Nov 1995), 4A150
Sensitivity analysis algorithm for the state chi-square test, J Guidance Control Dyn 19(1) 219-222 (Feb 1996), 6A276
Sensitivity analysis of distributed-parameter optimal control problems for nonlinear parabolic equations, J Optim Theory Appl 87(3) 595-613 (Dec 1995), 6T277
Sensitivity analysis for generalized linear-quadratic problems, J Optim Theory Appl 88(3) 541-559 (Mar 1996), 7T374
Sensitivity analysis of truss and frame structures in critical states, Mech Struct Machines 24(1) 105-134 (1996), 7A969
H_∞ optimal multichannel linear deconvolution filters, predictors and smoothers, Int J Control 63(3) 519-533 (Feb 1996), 8T283
Sensitivity limitations in nonlinear feedback control, Syst Control Lett 27(4) 249-254 (Apr 1996), 11T268
Sensitivity analysis in vector optimization, J Optim Theory Appl 89(3) 713-730 (Jun 1996), 12T333

200G. Filtering techniques

Stochastic Processes, Estimation, and Control - The Entropy Approach (Wiley, New York, 1995) 2R18
Spacecraft attitude determination by Kalman filtering of global positioning system signals, J Guidance Control Dyn 18(6) 1365-1371 (Dec 1995), 4T301
Adaptive control of jump parameter systems via nonlinear filtering, SIAM J Control Optim 33(6) 1758-1777 (Nov 1995), 4T338
Bayesian state estimation for tracking and guidance using the bootstrap filter, J Guidance Control Dyn 18(6) 1434-1443 (Dec 1995), 4T339
Quaternion nonlinear filter for estimation of rotating body attitude, Math Methods Appl Sci 18(15) 1239-1255 (Dec 1995), 4A340
Extraction of transient signals from nonperiodic dynamic responses, J Dyn Syst Meas Control 117(3) 270-276 (Sep 1995), 5A302
Filtering for linear stochastic systems with small measurement noise, J Dyn Syst Meas Control 117(3) 425-429 (Sep 1995), 5A309
Unwrapping the phase response functions for nonlinear systems, Mech Syst Signal Processing 9(6) 657-673 (Nov 1995), 5A310
Cancelling deterministic noise by constructing nonlinear inverses to linear filters, Physica D 89(3-4) 439-458 (Jan 1996), 6A278
Robust fault detection filter design, J Guidance Control Dyn 19(1) 214-218 (Feb 1996), 6A279
Asymptotic stability of the optimal filter with respect to its initial condition, SIAM J Control Optim 34(1) 226-243 (Jan 1996), 7T370
Smoothing data with local instabilities for the identification of chaotic systems, Int J Control 63(3) 483-505 (Feb 1996), 8A269
Optimal robust filtering with time-varying parameter uncertainty, Int J Control 63(3) 557-576 (Feb 1996), 8T270
Design of unknown input observers and robust fault detection filters, Int J Control 63(1) 85-105 (Jan 1996), 8A347
Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, JSME Int J Ser C 39(1) 67-72 (Mar 1996), 9A398
Algorithms for processing space-time signals in systems with a random structure, J Machinery Manuf Reliab 5 89-95 (1995), 9A400
Fast algorithms of linear discrete image filtering, Machine Graphics & Vision 4(3-4) 203-211 (1995), 10A404
Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, J Guidance Control Dyn 19(3) 643-649 (Jun 1996), 11A267
Adaptive orbit determination for interplanetary spacecraft, J Guidance Control Dyn 19(3) 693-701 (Jun 1996), 11A305
Parallel learning in control systems: Derivation of multiple eigenvalue filter, JSME Int J Ser C 39(2) 242-248 (Jun 1996), 12A336
Effect of common process noise on two-sensor track fusion, J Guidance Control Dyn 19(4) 829-835 (Aug 1996), 12A384
Measurement reconstruction approach for distributed multisensor fusion, J Guidance Control Dyn 19(4) 842-847 (Aug 1996), 12T428

200H. Design methods

Shaping time response by state feedback in minimum-phase systems, J Guidance Control Dyn 18(4) 913-916 (Aug 1995), 1T373
Systematic design of robust controllers for nonlinear uncertain systems, Int J Control 62(4) 871-892 (Oct 1995), 2T243
Coupled controls-structures optimization procedure for the design of rotating composite box beams with piezoelectric actuators, Smart Mat Struct 4(3) 170-178 (Sep 1995), 2A261
Design of compensators for actuator saturation, J Syst Control Eng 209(I3) 157-164 (1995), 2A269
Robust tracking and model following for uncertain time-delay systems, Int J Control 62(3) 589-600 (Sep 1995), 2A277
Generation of free-form surface in CAD for dies (Japanese), J Japan Soc Precision Eng 61(8) 1087-1091 (Aug 1995), 2A821
Integrating robustness into multiobjective space vehicle design process, J Guidance Control Dyn 18(5) 1163-1168 (Oct 1995), 3T315
Optimal pole placement in time-dependent linear systems, J Guidance Control Dyn 18(5) 995-999 (Oct 1995), 3A339
Experimental satellite trajectory analysis using decision-based robust design, J Guidance Control Dyn 18(5) 1126-1132 (Oct 1995), 3A348
Real structured singular value synthesis using the scaled Popov criterion, J Guidance Control Dyn 18(6) 1244-1252 (Dec 1995), 4T344
Pole placement in optimal regulator by continuous pole-shifting, J Guidance Control Dyn 18(6) 1253-1258 (Dec 1995), 4A356
Synthesis of algorithms for controlling dynamic systems with constrained phase coordinates and control function, J Machinery Manuf Reliab 2 72-76 (1995), 5T311
Design of stabilizing control laws for mechanical systems based on Lyapunov's method, J Guidance Control Dyn 19(1) 172-180 (Feb 1996), 6A299
Robust control design framework for substructure models, J Guidance Control Dyn 19(1) 181-190 (Feb 1996), 6A304
Design object model and design process model of computer aided aircraft conceptual design system, Chinese J Aeronaut 8(3) 198-204 (Aug 1995), 7A375
Feedback representation of precompensators: The general case, Int J Control 63(1) 195-206 (Jan 1996), 8T259
Designs of learning controllers based on autoregressive representation of a linear system, J Guidance Control Dyn 19(2) 355-362 (Apr 1996), 8A271
Integrated controls-structures design methodology: Redesign of an evolutionary test structure, J Guidance Control Dyn 19(2) 316-323 (Apr 1996), 8A272
Experimental validation of an integrated controls-structures design methodology, J Guidance Control Dyn 19(2) 324-333 (Apr 1996), 8A350
Synthesizing control systems for multi-dof manipulators, J Syst Control Eng 210(I1) 45-50 (1996), 9A464
Dynamic pole assignment and Schubert calculus, SIAM J Control Optim 34(3) 813-832 (May 1996), 10T425
Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, Int J Control 63(4) 703-719 (Mar 1996), 10A427
Robustness of a minimal observer synthesis algorithm, Int J Control 64(1) 141-154 (May 1996), 11A265
Robust Boolean set operation of polygons with degenerate intersections based on variable tolerances and topological necessary conditions (Japanese), J Japan Soc Precision Eng 62(4) 517-521 (Apr 1996), 11A269
Robust control design strategy with parameter-dominated uncertainty, J Guidance Control Dyn 19(3) 605-611 (Jun 1996), 11A299
Pole assignment for optimal regulators with a nonnegative definite weighting matrix, J Guidance Control Dyn 19(4) 967-969 (Aug 1996), 12T356
Regional pole placement method for discrete-time systems, J Guidance Control Dyn 19(4) 974-976 (Aug 1996), 12T379

200I. Modelling and simulation

Calculation of second and higher order eigenvector derivatives, J Guidance Control Dyn 18(4) 919-921 (Aug 1995), 1T80
Eigenvector derivatives for mechanical second-order systems, J Guidance Control Dyn 18(4) 899-906 (Aug 1995), 1A81
Consistent model reduction of experimental modal parameters for reduced-order control, J Guidance Control Dyn 18(4) 748-755 (Aug 1995), 1T374
Model validation tests for multivariable nonlinear models including neural networks, Int J Control 62(4) 749-766 (Oct 1995), 2A244
Finding the transfer function of time invariant linear system without computing $(sI - A)^{-1}$, Int J Control 62(6) 1517-1522 (Dec 1995), 5T296
Model simplification and stability robustness with elastic flight vehicles, J Dyn Syst Meas Control 117(3) 336-342 (Sep 1995), 5A312
Optimal H_∞ model reduction via linear matrix inequalities: Continuous- and discrete-time cases, Syst Control Lett 26(5) 321-333 (Dec 1995), 5T313
Singularly perturbed bond graph models for simulation of multibody systems, J Dyn Syst Meas Control 117(3) 401-410 (Sep 1995), 5A314
Global structure modeling using force-state component identification, J Guidance Control Dyn 19(1) 198-206 (Feb 1996), 6T280
Use of linear graph theory in multibody system dynamics, Nonlinear Dyn 9(1-2) 73-90 (Feb 1996), 7A94
Modeling of chamber mufflers by four-pole electrical ducts, Int J Vehicle Des 17(1) 92-104 (1996), 8A254
Bond graph models for linear motion magnetostrictive actuators, J Dyn Syst Meas Control 118(1) 161-167 (Mar 1996), 9A401
Eulerian bond graphs for fluid continuum dynamics modeling, J Dyn Syst Meas Control 118(1) 48-57 (Mar 1996), 9A402
Reduction of the model of mechanical system with variable reduced parameters, Prikl Mekh (Appl Mech) 31(8) 81-87 (1995), 9A403
Model reduction of Coulomb friction damped systems using singular perturbation theory, J Dyn Syst Meas Control 118(1) 84-91 (Mar 1996), 9A979
Calculation of discrete-time process noise statistics for hybrid continuous and discrete-time applications, Optimal Control Appl Methods 17(2) 151-155 (Jun 1996), 11A270
Dynamic modal truncation-relaxation, J Guidance Control Dyn 19(3) 528-533 (Jun 1996), 11A271
Statistical model validation, J Dyn Syst Meas Control 118(2) 226-236 (Jun 1996), 12A332
Unifying theory of least-squares Pade model reduction methods, J Syst Control Eng 210(I2) 95-102 (1996), 12T334
Multicriteria simulation and analysis, J Machinery Manuf Reliab 1 88-94 (1996), 12A973

200J. Adaptive and learning systems

Iterative Learning Control: An overview of recent algorithms, Appl Math Comp Sci 5(3) 425-438 (1995), 1A375
Application of Learning Automata to controller design in slow-active automobile suspensions, Vehicle Syst Dyn 24(8) 597-616 (Sep 1995), 1A407
Neural networks approach to AIAA aircraft control design challenge, J Guidance Control Dyn 18(4) 731-739 (Aug 1995), 1A417
Adaptive control of linear unstructured time-varying systems, Int J Control 62(3) 527-555 (Sep 1995), 2A245
Application of self-similarity to a large scale adaptive system: Proposal of recursive architecture, Smart Mat Struct 4(3) 186-194 (Sep 1995), 2A246
Improved structure selection for nonlinear models based on term clustering, Int J Control 62(3) 569-587 (Sep 1995), 2T249
Adaptive control of robot manipulators including motor dynamics, J Syst Control Eng 209(I3) 207-217 (1995), 2A306
Comparative studies between finite and infinite time interval controllers for flexible joint robots, J Syst Control Eng 209(I3) 219-224 (1995), 2T309
Decentralized adaptive control of a directly driven hydraulic manipulator - Part 1: Theory, J Syst Control Eng 209(I3) 191-196 (1995), 2A310
Decentralized adaptive control of a directly driven hydraulic manipulator - Part 2: Experiment, J Syst Control Eng 209(I3) 197-205 (1995), 2A311
Model reference adaptive control for nonminimum phase systems, Syst Control Lett 26(3) 167-176 (Oct 1995), 3T336
Adaptive control of jump parameter systems via nonlinear filtering, SIAM J Control Optim 33(6) 1758-1777 (Nov 1995), 4T338
Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, Optimal Control Appl Methods 16(5) 361-371 (Dec 1995), 4A347
New feedforward neural network structural learning algorithm: Augmentation by training with residuals, J Dyn Syst Meas Control 117(3) 411-415 (Sep 1995), 5A344
Adaptive control of robot manipulators in constrained motion: Controller design, J Dyn Syst Meas Control 117(3) 320-328 (Sep 1995), 5A370
Self-adaptive FEM for solving 2D Euler equations on the unstructured meshes, Chinese J Aeronaut 8(1) 1-8 (Feb 1995), 6A28
Adaptive control via a simple switching algorithm, SIAM J Control Optim 34(1) 365-388 (Jan 1996), 7A376
Adaptive sliding mode control for variable structure systems with constraint control input, Dyn Control 6(1) 49-61 (Jan 1996), 7T387
Adaptive stabilization using a variable sampling rate, Int J Control 63(1) 107-119 (Jan 1996), 8T262
Robust adaptive stabilization of a class of systems under structured nonlinear perturbations with application to interconnected systems, Int J Control 63(1) 183-194 (Jan 1996), 8T265
Parameter identification of robot arm with repetitive control, Int J Control 63(2) 225-238 (Jan 1996), 8A268

Designs of learning controllers based on autoregressive representation of a linear system, J Guidance Control Dyn 19(2) 355-362 (Apr 1996), 8A271
Adaptive control in CNC machine cutting (Chinese), J Dalian Univ Tech 35(3) 352-356 (Jun 1995), 8A273
Generalized minimum variance adaptive control and parameter convergence for stochastic systems, Int J Control 63(1) 147-160 (Jan 1996), 8T274
Passivity-based analysis of the minimal control synthesis algorithm, Int J Control 63(1) 67-84 (Jan 1996), 8T303
Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, Int J Control 63(3) 433-455 (Feb 1996), 8A349
Adaptive motion tracking control of robotic manipulators: Non-regressor based approach, Int J Control 63(1) 41-54 (Jan 1996), 8A360
Auto-tuning of low-order controllers by direct manipulation of closed-loop time domain measures, J Syst Control Eng 210(I1) 13-30 (1996), 9A404
Function space BFGS quasi-Newton learning algorithm for time-varying recurrent neural networks, J Dyn Syst Meas Control 118(1) 132-138 (Mar 1996), 9A405
Robustness of learning in the multi-layer perceptron, Appl Math Comp Sci 5(4) 743-749 (1995), 9A406
Self-organizing neural networks for adaptive control, J Intelligent & Robotic Syst 15(2) 153-163 (Feb 1996), 9A407
Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, J Dyn Syst Meas Control 118(1) 58-65 (Mar 1996), 9A423
Speed tracking and vehicle follower control design for heavy-duty vehicles, Vehicle Syst Dyn 25(4) 251-276 (Apr 1996), 9A430
Robust throttle control of automotive engines: Theory and experiment, J Dyn Syst Meas Control 118(1) 92-98 (Mar 1996), 9A436
Adaptive control of an industrial robot retrofitted with an open-architecture controller, J Dyn Syst Meas Control 118(1) 143-150 (Mar 1996), 9A452
Adaptive control of flexible link manipulators using a pseudolink dynamic model, Dyn Control 6(2) 179-198 (Apr 1996), 9A458
Adaptive output regulation of a flexible arm, J Dyn Syst Meas Control 118(1) 167-172 (Mar 1996), 9A459
Neural network design with genetic learning for control of a single link flexible manipulator, J Intelligent & Robotic Syst 15(2) 135-151 (Feb 1996), 9A462
Theory and implementation of a repetitive robot controller with Cartesian trajectory description, J Dyn Syst Meas Control 118(1) 15-21 (Mar 1996), 9A465
Linear prediction approach in airborne adaptive arrays, Chinese J Aeronaut 9(1) 64-70 (Feb 1996), 10A398
Adaptive control for time optimal tracking systems, Int J Control 63(5) 951-964 (Mar 1996), 10A405
Adaptive control of a class of time-delay systems with uncertain parameters, Int J Control 63(5) 937-950 (Mar 1996), 10A406
Hierarchical multivariable fuzzy controller for learning with genetic algorithms, Int J Control 63(5) 865-883 (Mar 1996), 10A407
Adaptive control of nonlinear systems with nonlinear parameterization, Syst Control Lett 27(2) 87-97 (Feb 1996), 10T418
Deterministic adaptive control with slowly varying parameters: An averaging analysis, Int J Control 64(1) 99-125 (May 1996), 11A295
Robust adaptive tracking using the internal model principle, Int J Control 64(1) 127-140 (May 1996), 11A298
Simplified adaptive model output following control for plants with unmodeled dynamics, Int J Control 64(1) 61-80 (May 1996), 11T300
Adaptive orbit determination for interplanetary spacecraft, J Guidance Control Dyn 19(3) 693-701 (Jun 1996), 11A305
Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, J Guidance Control Dyn 19(3) 671-679 (Jun 1996), 11A325
Synchronization of twin-gyro precession under cross-coupled adaptive feedforward control, J Guidance Control Dyn 19(3) 534-539 (Jun 1996), 11A334
Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, Int J Control 64(2) 217-239 (May 1996), 11A355
Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, Robotics Autonomous Syst 17(1-2) 35-52 (Apr 1996), 11T379
Robustness of adaptive control for stochastic systems, Int J Control 64(3) 463-482 (Jun 1996), 12T322
H_∞ synthesis of robust current error feedback learning control, J Dyn Syst Meas Control 118(2) 341-346 (Jun 1996), 12A335
Parallel learning in control systems: Derivation of multiple eigenvalue filter, JSME Int J Ser C 39(2) 242-248 (Jun 1996), 12A336
Robust adaptive control for hydraulic servosystems, J Dyn Syst Meas Control 118(2) 237-244 (Jun 1996), 12A337
Stability of parallel learning control systems, JSME Int J Ser C 39(2) 249-256 (Jun 1996), 12A338
Study on robustness of iterative learning control with non-zero initial error, Int J Control 64(3) 345-359 (Jun 1996), 12A339
Partially decentralized adaptive control of interconnected systems with improved performance, Int J Control 64(3) 529-561 (Jun 1996), 12T341
Output-driven minimal controller synthesis with an adaptive observer, J Syst Control Eng 210(I2) 131-139 (1996), 12T377
Control of wing rock motion using adaptive feedback linearization, J Guidance Control Dyn 19(4) 905-912 (Aug 1996), 12A383
Adaptive control of a zero-stiffness suspension system, J Guidance Control Dyn 19(4) 794-800 (Aug 1996), 12A397
Adaptive control of feedback linearizable nonlinear systems with application to flight control, J Guidance Control Dyn 19(4) 871-877 (Aug 1996), 12A398
Fuzzy neural controller design for use with a nonlinear system, J Syst Control Eng 210(I2) 141-150 (1996), 12A429
Autonomous generation of reflexion-based robot controller using inductive learning, Robotics Autonomous Syst 17(4) 287-305 (Jun 1996), 12A450
New adaptive robot controller taking account of motor dynamics, J Dyn Syst Meas Control 118(2) 390-393 (Jun 1996), 12T457
Cooperative manipulation by autonomous intelligent robots, JSME Int J Ser C 39(2) 286-293 (Jun 1996), 12A461

200L. Pattern recognition

Object contour recognition using oriented grids, Machine Graphics & Vision 3(4) 657-665 (1994), 1A376
Distribution of dof over structure and motion of rigid bodies, Machine Graphics & Vision 4(1-2) 83-100 (1995), 6T281
Fast algorithm for edge structure detection in monochrome and color images, Machine Graphics & Vision 4(1-2) 59-77 (1995), 6A282

200M. Nonlinear systems

Computation of nonlinear transfer functions when constant terms are present, Mech Syst Signal Processing 9(5) 537-553 (Sep 1995), 2A247
Extended integral method to derive Lyapunov functions for nonlinear systems, Int J Control 62(3) 717-736 (Sep 1995), 2T248
Improved structure selection for nonlinear models based on term clustering, Int J Control 62(3) 569-587 (Sep 1995), 2T249
Method for construction of stability regions by Lyapunov functions, Syst Control Lett 26(2) 147-151 (Sep 1995), 2A250
Dynamics of a versatile sliding control, Dyn Control 5(4) 347-363 (Oct 1995), 3A316
Method for robust stabilization related to the Popov stability criterion, Int J Control 62(5) 1105-1115 (Nov 1995), 3T317
Nonlinear normal modes, invariance, and modal dynamics approximations of nonlinear systems, Nonlinear Dyn 8(3) 315-346 (Oct 1995), 4A122
Pseudo-fault induction in engineering structure: Multi-input multi-output control, Nonlinear Dyn 8(3) 367-384 (Oct 1995), 4A124
Semi-empirical modeling of nonlinear dynamic systems through identification of operating regimes and local models, Model Ident Control 16(4) 213-232 (Oct 1995), 4A337
Identification of a class of nonlinear continuous-time systems using Hartley modulating functions, Int J Control 62(6) 1431-1451 (Dec 1995), 5T303
Synthesis of algorithms for controlling the motion of mechanical systems by the method of suppression of kinetic energy, J Machinery Manuf Reliab 3 78-87 (1995), 6T283
Energy method for computing periodic solutions of strongly nonlinear systems - I: Autonomous systems, Nonlinear Dyn 9(3) 223-247 (Mar 1996), 7A108
Smooth converse lyapunov theorem for robust stability, SIAM J Control Optim 34(1) 124-160 (Jan 1996), 7A372
Adaptive stabilization using a variable sampling rate, Int J Control 63(1) 107-119 (Jan 1996), 8T262
Analysis of nonlinear oscillations by wavelet transform: Lyapunov exponents, Nonlinear Dyn 9(4) 333-347 (Apr 1996), 9A149
Stabilization of nonlinear singularly perturbed multiple time-delay systems by dither, J Dyn Syst Meas Control 118(1) 174-181 (Mar 1996), 9A408
Modeling and control of nonlinear, operating point dependent systems via associative memory networks, Dyn Control 6(2) 199-218 (Apr 1996), 9T416
Stability of nonlinear polynomial ARMA models and their inverse, Int J Control 63(5) 885-906 (Mar 1996), 10T393
Lyapunov analysis of the approximate motion equations of flexible structures, Syst Control Lett 28(1) 31-41 (Jun 1996), 12A98
Normal modes for piecewise linear vibratory systems, Nonlinear Dyn 10(2) 135-164 (Jun 1996), 12A118
Absolute stability of sampled-data systems with a sector nonlinearity, Syst Control Lett 27(5) 293-304 (May 1996), 12A320
Inverse optimality in robust stabilization, SIAM J Control Optim 34(4) 1365-1391 (Jul 1996), 12T340

200N. Discrete systems

Optimal design of robust predictors for linear discrete-time systems, Syst Control Lett 26(1) 25-31 (Sep 1995), 2T251
Computation-oriented expression of a non-conservative condition for robust stability of sampled-data systems, Int J Control 62(5) 1085-1104 (Nov 1995), 3T318
Stability of discrete non-unit memory linear repetitive processes: A 2D systems interpretation, Int J Control 63(3) 457-482 (Feb 1996), 8T266
Sampled-data system with computation time delay: Optimal W-synthesis method, J Guidance Control Dyn 19(3) 584-591 (Jun 1996), 11A292
Robust observability for a class of time-varying discrete-time uncertain systems, Syst Control Lett 27(5) 261-266 (May 1996), 12T319
Absolute stability of sampled-data systems with a sector nonlinearity, Syst Control Lett 27(5) 293-304 (May 1996), 12A320
Stability of a class of discrete event systems using Markov chains, Int J Control 64(3) 391-408 (Jun 1996), 12T323

200O. Distributed parameter and delayed systems

New method for computing delay margins for stability of linear delay systems, Syst Control Lett 26(2) 107-117 (Sep 1995), 2A252
Harmonic balance in delay-differential equations, J Sound Vib 186(4) 649-656 (Oct 1995), 3A319
Noise active control study based on control theory for distributed paramter systems (Chinese), J Vib Eng 8(3) 286-290 (Sep 1995), 4A324
Periodic stability of nonlinear flexible systems with damping, SIAM J Control Optim 33(6) 1778-1800 (Nov 1995), 4T334
Regional controllability of distributed parameter systems, Int J Control 62(6) 1351-1365 (Dec 1995), 5A299
Analysis of the dereverberated transfer function in finite dimensions, J Guidance Control Dyn 19(1) 91-98 (Feb 1996), 6A267
New formulation of state constraint problems for first-order PDEs, SIAM J Control Optim 34(2) 554-571 (Mar 1996), 8T275
Stabilization of nonlinear singularly perturbed multiple time-delay systems by dither, J Dyn Syst Meas Control 118(1) 176-181 (Mar 1996), 9A408
List of hodograph transformations exactly linearizable systems, Int J Non-Linear Mech 31(2) 117-127 (Mar 1996), 10A109
Null controllability of nonlinear infinite delay systems with time varying multiple delays in control, Appl Math letters 9(3) 115-121 (May 1996), 10A389
Infinite-dimensional continuous-time linear systems: Stability and structure analysis, SIAM J Control Optim 34(3) 757-812 (May 1996), 10T392
Genericity of stabilizability for time-delay systems, SIAM J Control Optim 34(3) 833-854 (May 1996), 10T408
Lyapunov analysis of the approximate motion equations of flexible structures, Syst Control Lett 28(1) 31-41 (Jun 1996), 12A98
Robust stabilization of large-scale time-delay systems with estimated state feedback, J Optim Theory Appl 89(3) 543-559 (Jun 1996), 12A321

200P. Decentralized systems

Decentralized sliding mode control in three-axis intertial platforms, J Guidance Control Dyn 18(4) 773-781 (Aug 1995), 1A377
Decentralized adaptive control of a directly driven hydraulic manipulator - Part 1: Theory, J Syst Control Eng 209(I3) 191-196 (1995), 2A310
Robust control design framework for substructure models, J Guidance Control Dyn 19(1) 181-190 (Feb 1996), 6A304
Decentralized control of large-scale power systems with unknown interconnections, Int J Control 63(3) 591-608 (Feb 1996), 8A276
Decentralized robust control design for uncertain delay systems, J Optim Theory Appl 89(2) 311-323 (May 1996), 11A272
Frequency domain method for decentralized stabilization based on quasi-block diagonal dominance, Int J Control 64(1) 41-59 (May 1996), 11T273
Gradient flow approach to decentralized output feedback optimal control, Syst Control Lett 27(4) 223-231 (Apr 1996), 11A278
Measurement scheduling for recursive team estimation, J Optim Theory Appl 89(3) 615-636 (Jun 1996), 12T328
Partially decentralized adaptive control of interconnected systems with improved performance, Int J Control 64(3) 529-561 (Jun 1996), 12T341

200Q. Stochastic or fuzzy systems

Identification of linear stochastic systems through projection filters, J Guidance Control Dyn 18(4) 767-772 (Aug 1995), 1T370
Stochastic Processes, Estimation, and Control - The Entropy Approach (Wiley, New York, 1995) 2R18
Assessment of form errors and data processing by some optimization techniques (Japanese), J Japan Soc Precision Eng 61(8) 1064-1068 (Aug 1995), 2T53
Grammian assignment for stochastic parameter systems and their stabilization under randomly varying delays, Optimal Control Appl Methods 16(4) 263-272 (Sep 1995), 2A253
Location and modification of errors in structural dynamic models (Chinese), J Vib Eng 8(2) 156-161 (Jun 1995), 3A173
Stabilization of a programmed path of a robot with absolutely rigid and elastic members, Mech Solids 30(1) 31-39 (1995), 3A415
Modification of dynamic model of mechanical structures based on fuzzy optimization knowledge (Chinese), J Vib Eng 8(3) 219-225 (Sep 1995), 4A101
Parametric random excitation of nonlinear coupled oscillators, Nonlinear Dyn 8(3) 385-413 (Oct 1995), 4A123
Modal parameter identification using an unknown colored random input, Mech Syst Signal Processing 9(6) 685-695 (Nov 1995), 5A307
Filtering for linear stochastic systems with small measurement noise, J Dyn Syst Meas Control 117(3) 425-429 (Sep 1995), 5A309
Fuzzy adaptive recurrent counterpropagation neural networks: A tool for efficient implementation of qualitative models of dynamic processes, J Syst Eng 5(4) 207-222 (1995), 5A315
Inverse problem of a linear dynamic system with noise, Int J Control 62(6) 1291-1317 (Dec 1995), 5T316
Monitoring and self-learning fuzzy control for wire rupture prevention in wire electrical discharge machining, Int J Machine Tools Manuf 36(3) 339-353 (Mar 1996), 5A317
Analysis of nonstationary dynamic processes in the presence of mixed information on random perturbations, J Machinery Manuf Reliab 3 6-12 (1995), 6A49
Averaged stochastic approximation for linear regression, SIAM J Control Optim 34(1) 31-61 (Jan 1996), 7T377
Fuzzy Petri net for fault diagnosis, Chinese J Aeronaut 8(4) 305-312 (Nov 1995), 7A421
Machine parts visual inspection system using fuzzy-neural network (Japanese), J Japan Soc Precision Eng 61(12) 1681-1685 (Dec 1995), 7A477
Fuzzy ratings in mechanical engineering design: Application to bearing selection, Proc Inst Mech Eng J Eng Manuf 210(B1) 49-53 (1996), 7A1017
Expert system for preliminary bridge design (Chinese), J Dalian Univ Tech 36(1) 72-75 (Jan 1996), 8A341
Unified model for structural reliability analysis based on fuzzy random probabilistic theory (Chinese), J Dalian Univ Tech 35(4) 528-531 (Aug 1995), 8A737
Pseudolinear vibroimpact systems: Non-white random excitation, Nonlinear Dyn 9(4) 327-332 (Apr 1996), 9A162
Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, JSME Int J Ser C 39(1) 73-77 (Mar 1996), 9A397
Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, JSME Int J Ser C 39(1) 67-72 (Mar 1996), 9A398
Algorithms for processing space-time signals in systems with a random structure, J Machinery Manuf Reliab 5 89-95 (1995), 9A400
Logical valuation of connectives for fuzzy control by partial differential equations, Appl Math Comp Sci 5(4) 597-614 (1995), 9A409
Multilayer fuzzy control of multivariable systems by passive decomposition, Appl Math Comp Sci 5(4) 615-633 (1995), 9A410
Fuzzy logic traction controllers and their effect on longitudinal vehicle platoon systems, Vehicle Syst Dyn 25(4) 277-303 (Apr 1996), 9A424
Study on plant inspection and diagnosis robot - 2nd Report: Searching method for the faulty machine based on sound spectrum and fuzzy navigation-

(Japanese), J Japan Soc Precision Eng 62(2) 205-209 (Feb 1996), 9A466
Identification of stochastic system and controller via projection filters, J Vib Acoust 118(2) 169-176 (Apr 1996), 10A397
Strong consistency and convergence rate of parameter identification for bilinear systems, Int J Control 63(5) 907-919 (Mar 1996), 10T402
Optimal control approach to extreme local maxima for stochastic Duffing-type oscillators, J Sound Vib 193(3) 597-629 (Jun 1996), 12A136
Robust observability for a class of time-varying discrete-time uncertain systems, Syst Control Lett 27(5) 261-266 (May 1996), 12T319
Robustness of adaptive control for stochastic systems, Int J Control 64(3) 463-482 (Jun 1996), 12T322
Indirect identification of linear stochastic systems with known feedback dynamics, J Guidance Control Dyn 19(4) 836-841 (Aug 1996), 12A327
Optimal nonlinear estimation of linear stochastic systems: The multivariable extension, J Dyn Syst Meas Control 118(2) 350-353 (Jun 1996), 12A330
Measurement reconstruction approach for distributed multisensor fusion, J Guidance Control Dyn 19(4) 842-847 (Aug 1996), 12T428

200Y. Computational techniques

Unwrapping the phase response functions for nonlinear systems, Mech Syst Signal Processing 9(6) 657-673 (Nov 1995), 5A310
Error analysis of indirect force determination and a regularization method to reduce force determination error, Mech Syst Signal Processing 9(6) 615-633 (Nov 1995), 5A318
Dynamic system identification by neural network: A new fast learning method based on error back propagation, JSME Int J Ser C 38(4) 686-692 (Dec 1995), 6A270
Neural networks in multidimensional domains, J Syst Eng 6(1) 1-11 (1996), 8A277
Differential manifolds of the optimal solutions of a system of three ordinary equations, Arch Mech 48(1) 3-23 (1996), 9A411
Parametric identification of systems with dry friction and nonlinear stiffness using a time series model, J Vib Acoust 118(2) 252-263 (Apr 1996), 10A400
State-set estimation algorithm for linear systems in the presence of bounded disturbances, Int J Control 63(4) 799-811 (Mar 1996), 10T401
Dynamic modal truncation-relaxation, J Guidance Control Dyn 19(3) 528-533 (Jun 1996), 11A271
Wavelet-based algorithm for the Hilbert transform, Mech Syst Signal Processing 10(2) 125-134 (Mar 1996), 11A274
Global convergence characteristics of numerically evaluated Jacobian matrices, Nonlinear Dyn 10(2) 165-174 (Jun 1996), 12A127
Matrix methods for estimating the coherence functions from estimates of the cross-spectral density matrix, Shock Vib 3(4) 237-246 (1996), 12A135
Interpretation of singular values in the inversion of minimum and non-minimum phase systems, Mech Syst Signal Processing 10(3) 225-240 (May 1996), 12A342

200Z. Experimental systems analysis

Asymmetric systematic uncertainties in determination of experimental uncertainty, AIAA J 34(7) 1458-1463 (Jul 1996), 12A343

202. CONTROL SYSTEMS

202A. General theory

Uncertain systems and minimum energy control, Appl Math Comp Sci 5(3) 533-545 (1995), 1A378
Constrained stability with an assigned initial condition set, Int J Control 62(3) 601-617 (Sep 1995), 2T254
Impulsive control and optimization, Appl Math Comput 73(1) 77-98 (Nov 1995), 2A255
New results on closed-loop stability in the presence of control saturation, Int J Control 62(3) 619-631 (Sep 1995), 2A256
Second-order sufficient conditions for control problems with control-state constraints, J Optim Theory Appl 86(3) 649-667 (Sep 1995), 2T257
Toward a geometric theory in the time-minimal control of chemical batch reactors, SIAM J Control Optim 33(5) 1279-1311 (Sep 1995), 2T258
Robust performance variable structure PI-P control design for high precise positioning control systems, Int J Machine Tools Manuf 35(12) 1649-1667 (Dec 1995), 2A347
Digital Control Systems Implementation Techniques - Control and Dynamic Systems: Advances in Theory and Applications, Vol 70 (Academic, San Diego, CA, 1995) 3N14
Test for stabilizability by constant output-feedback, Int J Control 62(5) 1239-1246 (Nov 1995), 3T320
Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 1: Theory, J Optim Theory Appl 87(1) 33-45 (Oct 1995), 3T324
Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N9
Equivalence of second-order impedance control and proportional gain explicit force control, Int J Robotics Res 14(6) 574-589 (Dec 1995), 4A332
Approximate linearization of control systems with discontinuous nonlinearities, Optimal Control Appl Methods 16(5) 341-359 (Dec 1995), 4T341
Controllability criteria and sufficient conditions for dynamical systems to be stabilizable, J Appl Math Mech 59(3) 379-386 (1995), 4A342
Exact control of mechanical systems, J Optim Theory Appl 87(2) 349-357 (Nov 1995), 4T343
Real structured singular value synthesis using the scaled Popov criterion, J Guidance Control Dyn 18(6) 1244-1252 (Dec 1995), 4T344
Adjoint variable solutions via an auxiliary optimization problem, J Guidance Control Dyn 18(6) 1267-1272 (Dec 1995), 4T345
Kinematics and Dynamics of Multi-Body Systems (Springer-Verlag, Wien, 1995) 5N10
Bifurcation analysis via harmonic balance in periodic systems with feedback structure, Int J Control 62(6) 1507-1515 (Dec 1995), 5T88
Control Handbook - Electrical Engineering Handbook Series (CRC Press, Boca Raton FL, 1995) 6N12
Introduction to Fuzzy Control, Second Edition (Springer-Verlag, Berlin, 1996) 6N13
New approach to the design of digital model reference control systems, JSME Int J Ser C 38(4) 712-718 (Dec 1995), 6A339
Real-μ bounds based on fixed shapes in the Nyquist plane: Parabolas, hyperbolas, cissoids, nephroids and octonorphs, Syst Control Lett 27(1) 55-66 (Jan 1996), 7T378
Certain parameter of the discretized extended linear-quadratic problem of optimal control, SIAM J Control Optim 34(1) 62-73 (Jan 1996), 7T379
Deterministic approximation for stochastic control problems, SIAM J Control Optim 34(1) 161-178 (Jan 1996), 7A386
Feedback representation of precompensators: Application decoupling linear multi-input multi-output plants, Int J Control 63(1) 207-221 (Jan 1996), 8T278
Frequency domain performance bounds for uncertain positive real systems, J Guidance Control Dyn 19(2) 398-406 (Apr 1996), 8T301
Reduced-order compensation using the Hyland-Bernstein optimal projection equations, J Guidance Control Dyn 19(2) 407-417 (Apr 1996), 8T304
Performance analysis of controlled uncertain systems, Dyn Control 6(2) 131-142 (Apr 1996), 9A412
Polynomials for the states and control of control systems with time delay, Dyn Control 6(2) 163-177 (Apr 1996), 9T417
Control System Dynamics (Cambridge UP, New York, 1996) 10R12
Industrial Servo Control Systems: Fundamentals and Applications - Fluid Power and Control Series, Vol 13 (Marcel Dekker, New York, 1996) 10R13
Genericity of stabilizability for time-delay systems, SIAM J Control Optim 34(3) 832-854 (May 1996), 10T408
Hermitian solutions of the discrete-time algebraic Riccati equation, Int J Control 63(5) 921-936 (Mar 1996), 10T409
Linear Control Systems Engineering (McGraw-Hill, New York, 1996) 11R21
Decentralized robust control design for uncertain delay systems, J Optim Theory Appl 89(2) 311-323 (May 1996), 11A272
H_∞ control problem with zeros on the boundary of the stability domain, Int J Control 63(6) 1029-1053 (Apr 1996), 11T279
Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series (Prentice Hall, Upper Saddle River, NJ, 1995) 12R12
Generation of stable limit cycles in controllable linear systems, Syst Control Lett 28(1) 43-48 (Jun 1996), 12T112
Bounded realization of asymptotically attainable elements, J Appl Math Mech 59(6) 951-956 (1995), 12A344
Problem of conflicting control with mixed constraints, J Appl Math Mech 59(6) 911-919 (1995), 12A345
Kalman-Yakubovich-Popov lemma, Syst Control Lett 28(1) 7-10 (Jun 1996), 12T365

202B. Optimization techniques and algorithms

Design and examination of H_∞ robust controller for ground effect problem, J Guidance Control Dyn 18(4) 740-747 (Aug 1995), 1A379
Optimal modal-space controller for structural damping enhancements, J Guidance Control Dyn 18(4) 657-663 (Aug 1995), 1A380
Well-posedness criteria in optimization with application to the calculus of variations, Nonlinear Anal 25(5) 437-453 (Sep 1995), 1T381
Experimental application of an explicit optimal linear quadratic Gaussian controller, J Guidance Control Dyn 18(4) 674-677 (Aug 1995), 1A393
Near-optimal 3D rotational maneuvers of spacecraft using manipulator arms, J Guidance Control Dyn 18(4) 932-934 (Aug 1995), 1T412
Stochastic approach to the problem of spacecraft optimal maneuvers, J Brazilian Soc Mech Sci 16(3) 268-278 (1994), 2A205
Impulsive control and optimization, Appl Math Comput 73(1) 77-98 (Nov 1995), 2A255
Second-order sufficient conditions for control problems with control-state constraints, J Optim Theory Appl 86(3) 649-667 (Sep 1995), 2T257
Toward a geometric theory in the time-minimal control of chemical batch reactors, SIAM J Control Optim 33(5) 1279-1311 (Sep 1995), 2T258
Augmented Lagrangian nonlinear programming algorithm that uses SQP and trust region techniques, J Optim Theory Appl 86(2) 311-325 (Aug 1995), 2A259
Continuity properties of LQG optimal controllers, Syst Control Lett 26(1) 33-39 (Sep 1995), 2A260
Coupled controls-structures optimization procedure for the design of rotating composite box beams with piezoelectric actuators, Smart Mat Struct 4(3) 170-178 (Sep 1995), 2A261
Infinite-horizon multistage dynamic optimization problem, J Optim Theory Appl 86(3) 529-552 (Sep 1995), 2T262
LQ-optimization: A cautionary tale, Int J Control 62(4) 767-780 (Oct 1995), 2A263
Nonlinear optimal control problems with state constraints, SIAM J Control Optim 33(5) 1411-1424 (Sep 1995), 2T264
Penalty method for point and path state constraints in trajectory optimization, Optimal Control Appl Methods 16(4) 291-297 (Sep 1995), 2A265
Shape optimization in aerodynamics using nonlinear generalized minimal residual algorithm, Optimal Control Appl Methods 16(4) 229-249 (Sep 1995), 2A266
State-space approach to discrete-time H_2-optimal control with a causality constraint, Syst Control Lett 26(1) 69-77 (Sep 1995), 2T267
State-space solutions to $H^{(2)}$ sampled-data control problems, Syst Control Lett 26(1) 55-63 (Sep 1995), 2T268
Optimal predictive control of continuous nonlinear systems, Int J Control 62(3) 633-649 (Sep 1995), 2A271
New robust state analytical predictor design for a general class of deadtime processes, Int J Control 62(3) 651-683 (Sep 1995), 2T281
Practical identification and PI optimal controller of a laboratory drive system, Int J Control 62(3) 511-526 (Sep 1995), 2A291
Robust guaranteed cost control of uncertain nonlinear robotic system using mixed minimum time and quadratic performance index, Optimal Control Appl Methods 16(4) 273-282 (Sep 1995), 2T316
Cell-to-cell mapping method for time-optimal trajectory planning of multiple robot arm systems, J Optim Theory Appl 86(2) 347-368 (Aug 1995), 2A322
Structural modeling and optimal control of electrorheological material based adaptive beams, Smart Mat Struct 4(3) 207-214 (Sep 1995), 2A505
Design sensitivity analysis and optimization tool (DSO) for shape design applications, Comput Syst Eng 6(2) 151-175 (Apr 1995), 2A723
Optimization and Dynamical Systems (Springer-Verlag, New York, 1994) 3R12
FEM for the solution of state-constrained optimal control problems, J Guidance Control Dyn 18(5) 1036-1043 (Oct 1995), 3A23
Orbital strategies around a comet by means of a genetic algorithm, J Guidance Control Dyn 18(5) 1217-1220 (Oct 1995), 3T232
Integrating robustness into multiobjective space vehicle design process, J Guidance Control Dyn 18(5) 1163-1168 (Oct 1995), 3T315
Bellman's equation of optimization with the periodic control, J Theor Appl Mech 33(4) 783-791 (1995), 3A321
Finite-dimensional optimal controllers for nonlinear plants, Syst Control Lett 26(3) 223-230 (Oct 1995), 3A322
Invariant imbedding and parallelism in dynamic programming for feedback control, J Optim Theory Appl 87(1) 121-140 (Oct 1995), 3A323
Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 1: Theory, J Optim Theory Appl 87(1) 33-45 (Oct 1995), 3T324
Modeling, simulation, and optimization of a printer sled driving system, J Brazilian Soc Mech Sci 17(1) 89-101 (1995), 3A325
Multiobjective design of actively controlled structures using a hybrid optimization method, Int J Numer Methods Eng 38(20) 3383-3401 (Oct 1995), 3A326
New evolutionary direction operator for genetic algorithms, AIAA J 33(10) 1990-1993 (Oct 1995), 3T327
Optimal nonlinear, but continuous, feedback control of systems with saturating actuators, Int J Control 62(5) 1209-1216 (Nov 1995), 3T328
Variational approach to the polynomial optimization of multivariable control with colored noise at the controller output, Int J Control 62(5) 1037-1048 (Nov 1995), 3T329
Numerical approach to computing nonlinear H_∞ control laws, J Guidance Control Dyn 18(5) 989-994 (Oct 1995), 3A342
Back-to-turn optimal guidance with linear exponential quadratic Gaussian performance criterion, J Guidance Control Dyn 18(5) 951-958 (Oct 1995), 3A343
Control variables for FE solution of missile trajectory optimization, J Guidance Control Dyn 18(5) 1208-1211 (Oct 1995), 3T345
Earth-to-moon transfer with a limited power engine, J Guidance Control Dyn 18(5) 1133-1138 (Oct 1995), 3A347
Fuel-optimal stationkeeping via differential inclusions, J Guidance Control Dyn 18(5) 1156-1162 (Oct 1995), 3T349
Optimal power-limited rendezvous with thrust saturation, J Guidance Control Dyn 18(5) 1145-1150 (Oct 1995), 3A353
Optimum guidance with a single uncertain time lag, J Guidance Control Dyn 18(5) 981-988 (Oct 1995), 3A355
Reconfigurable tracking control with saturation, J Guidance Control Dyn 18(5) 1016-1022 (Oct 1995), 3T357
Time-optimal lateral maneuvers of an aircraft, J Guidance Control Dyn 18(5) 1106-1112 (Oct 1995), 3A360
Controlling robot manipulators by dynamic programming, Acta Mech Sinica 11(1) 20-33 (1995), 3A416
Real structured singular value synthesis using the scaled Popov criterion, J Guidance Control Dyn 18(6) 1244-1252 (Dec 1995), 4T344
Adjoint variable solutions via an auxiliary optimization problem, J Guidance Control Dyn 18(6) 1267-1272 (Dec 1995), 4T345
Admissible directions and generalized coupled points for optimal control problems, Nonlinear Anal 26(3) 479-507 (Feb 1996), 4T346
Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, Optimal Control Appl Methods 16(5) 361-371 (Dec 1995), 4A347
Asymptotic optimization of linear dynamical systems with controls of different strengths, J Appl Math Mech 59(3) 369-377 (1995), 4A348
Determination of weighting matrices of a linear quadratic regulator, J Guidance Control Dyn 18(6) 1462-1463 (Dec 1995), 4T349
Extension of the nonlinear problem of optimal control with nonstationary phase restrictions, Nonlinear Anal 26(2) 383-394 (Jan 1996), 4T350
Fuel-time optimal control of the benchmark problem, J Guidance Control Dyn 18(6) 1225-1231 (Dec 1995), 4A351
Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, J Optim Theory Appl 87(2) 287-300 (Nov 1995), 4T352
Optimal tradeoff between H_2 performance and tracking accuracy in servocompensator synthesis, J Guidance Control Dyn 18(6) 1239-1243 (Dec 1995), 4A353
Parallel algorithm for constrained optimization problems, J Comput Appl Math 61(2) 225-230 (Jul 1995), 4A354
Parallel gradient distribution in unconstrained optimization, SIAM J Control Optim 33(6) 1916-1925 (Nov 1995), 4T355
Pole placement in optimal regulator by continuous pole-shifting, J Guidance Control Dyn 18(6) 1253-1258 (Dec 1995), 4A356
Sampled-data minimum ∞ -norm regulation of linear continuous-time systems using multirate-output controllers, J Optim Theory Appl 87(2) 235-267 (Nov 1995), 4T357
Solution of optimal control problems by a pointwise projected Newton method, SIAM J Control Optim 33(6) 1731-1757 (Nov 1995), 4T358
State constraints in optimal control: The degeneracy phenomenon, Syst Control Lett 26(4) 267-273 (Nov 1995), 4T359
State constraints in the linear regulator problem: Case study, J Optim Theory Appl 87(2) 323-347 (Nov 1995), 4T360
Two-level decomposition-aggregation approach for large-scale optimal control problems, J Comput Appl Math 61(2) 117-137 (Jul 1995), 4A361
Minimax production planning in failure-prone manufacturing systems, J Optim Theory Appl 87(2) 269-286 (Nov 1995), 4A422
Simulation of optimum control for electro-discharge dressing using neural networks, Int J Machine Tools Manuf 36(2) 173-181 (Feb 1996), 4A659
Robust l_p stability and performance, Syst Control Lett 26(5) 305-312 (Dec 1995), 5A300

Optimal H_∞ model reduction via linear matrix inequalities: Continuous- and discrete-time cases, Syst Control Lett 26(5) 321-333 (Dec 1995), 5T313

Direct optimal control of nonlinear systems via Hamilton's law of varying action, J Dyn Syst Meas Control 117(3) 262-269 (Sep 1995), 5A319

Connections between minimum entropy control and mixed H_2/H_∞ control for time-varying systems, Syst Control Lett 26(5) 341-347 (Dec 1995), 5T324

Optimal asymptotic robust performance via nonlinear controllers, Int J Control 62(6) 1367-1389 (Dec 1995), 5A325

XY-centering algorithm for the dual LMI problem: A new approach to fixed-order control design, Int J Control 62(6) 1257-1272 (Dec 1995), 5T328

Time-optimal control problems for the swing and the aki, Int J Control 62(6) 1409-1429 (Dec 1995), 5A334

Nonlinear Feedback Control Systems: An Operator Theory Approach (Academic, San Diego, CA, 1993) 6R9

Optimal Control, Second Edition (Wiley, New York, 1995) 6R10

Control of a multiunit power gyro system with minimal redundancy, Mech Solids 30(3) 1-7 (1995), 6A92

Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, JSME Int J Ser C 38(4) 663-669 (Dec 1995), 6A119

Robustness of minimax controllers to nonlinear perturbations, J Optim Theory Appl 87(3) 631-678 (Dec 1995), 6T268

Exact time-optimal control of the wave equation, J Guidance Control Dyn 19(1) 130-134 (Feb 1996), 6A284

Maximum principle for the optimal control of a hyperbolic equation in two space dimensions, J Vib and Control 2(1) 3-15 (Feb 1996), 6A285

New iterative method to solve optimal control problems with terminal constraints, J Guidance Control Dyn 19(1) 262-264 (Feb 1996), 6T286

Nonlinear complementarity as unconstrained optimization, J Optim Theory Appl 88(1) 139-155 (Jan 1996), 6T287

Optimal control problems with state constraints for semilinear distributed-parameter systems, J Optim Theory Appl 88(1) 25-59 (Jan 1996), 6T288

Optimal feedback control of a nonlinear system: Wing rock examples, J Guidance Control Dyn 19(1) 166-171 (Feb 1996), 6A289

Optimization of coupled systems: A critical overview of approaches, AIAA J 34(1) 6-17 (Jan 1996), 6T290

Optimization of generalized potential in mission function control: Analytical and experimental results, J Guidance Control Dyn 19(1) 207-213 (Feb 1996), 6T291

Study of a perturbed boundary optimal control system, Appl Math letters 9(1) 95-99 (Jan 1996), 6A292

Sufficient conditions for optimal control problems with time delay, J Optim Theory Appl 88(1) 157-176 (Jan 1996), 6A293

Synthesis of locally-optimal algorithms of control in tracking systems applied in indirect measurements with errors, Russian Aeronaut 38(1) 23-27 (1995), 6A294

Nearly nonminimal linear-quadratic-Gaussian compensators for reduced-order control design initialization, J Guidance Control Dyn 19(1) 259-261 (Feb 1996), 6T302

Prescribed pole placement with optimal weight selection for single-input controllable systems, J Guidance Control Dyn 19(1) 253-256 (Feb 1996), 6T303

Finite difference scheme for automatic costate calculation, J Guidance Control Dyn 19(1) 231-239 (Feb 1996), 6A306

Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, J Guidance Control Dyn 19(1) 141-149 (Feb 1996), 6A310

Nonlinear H_∞ optimal control for agile missiles, J Guidance Control Dyn 19(1) 157-165 (Feb 1996), 6A314

Optimal time re-entry of vehicles by asymptotic matching, J Guidance Control Dyn 19(1) 223-230 (Feb 1996), 6A318

Linear quadratic flight control for ejection seats, J Guidance Control Dyn 19(1) 15-22 (Feb 1996), 6A327

Minimum-time control characteristics of flexible structures, J Guidance Control Dyn 19(1) 123-129 (Feb 1996), 6A328

Time optimal attitude control of asymmetric rigid spacecraft, J Vib and Control 2(1) 17-32 (Feb 1996), 6A332

Minimum energy control for single-input linear digital systems in z-domain, JSME Int J Ser C 38(4) 708-718 (Dec 1995), 6A337

Integrated optimum design of structure and H^∞ control system, AIAA J 34(1) 159-165 (Jan 1996), 6A717

Approximation of the optimal control of vibrations: A geometrical approach, Math Methods Appl Sci 19(2) 87-129 (Jan 1996), 7A134

Sensitivity analysis for generalized linear-quadratic problems, J Optim Theory Appl 88(3) 541-559 (Mar 1996), 7T374

Certain parameter of the discretized extended linear-quadratic problem of optimal control, SIAM J Control Optim 34(1) 62-73 (Jan 1996), 7T379

Dynamic programming for nonlinear systems driven by ordinary and impulsive controls, SIAM J Control Optim 34(1) 199-225 (Jan 1996), 7A380

Optimal control of singular systems with a cost on changing control, Dyn Control 6(1) 63-89 (Jan 1996), 7T381

Optimal control of the blowup time, SIAM J Control Optim 34(1) 102-123 (Jan 1996), 7T382

Stochastic penalty function methods for nonsmooth constrained minimization, J Optim Theory Appl 88(3) 709-724 (Mar 1996), 7T383

Uncertainty-averaging approach to output feedback optimal guaranteed cost control of uncertain systems, J Optim Theory Appl 88(2) 321-337 (Feb 1996), 7T384

Optimal planar interception with fixed end conditions: Closed-form solution, J Optim Theory Appl 88(3) 503-539 (Mar 1996), 7T391

Optimal control of vehicle random vibration with constrained suspension deflection, J Sound Vib 189(5) 547-564 (Feb 1996), 7A404

Optimal performance index for an off-road vehicle with passive and active suspension systems, Heavy Vehicle Syst 2(3-4) 225-237 (1995), 7A405

Optimization issues in the calibration of a multicomponent robotic dynamometer, J Manuf Syst 15(1) 43-51 (1996), 7A458

Optimal robust filtering with time-varying parameter uncertainty, Int J Control 63(3) 557-576 (Feb 1996), 8T270

Integrated controls-structures design methodology: Redesign of an evolutionary test structure, J Guidance Control Dyn 19(2) 316-323 (Apr 1996), 8A272

Dynamic integrated system optimization and parameter estimation for discrete time optimal control of nonlinear systems, Int J Control 63(2) 257-281 (Jan 1996), 8A279

Extensions to generalized LQG and H_∞ multivariable controllers, Int J Control 63(3) 507-517 (Feb 1996), 8T280

Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, Optimal Control Appl Methods 17(1) 29-43 (Mar 1996), 8T281

H_∞ norm computation for LTV systems using nonlinear optimal control algorithms, Int J Control 63(1) 161-182 (Jan 1996), 8T282

H_∞ optimal multichannel linear deconvolution filters, predictors and smoothers, Int J Control 63(3) 519-533 (Feb 1996), 8T283

Multiobjective optimization of structures with and without control, J Guidance Control Dyn 19(2) 392-397 (Apr 1996), 8A284

Multivariable stability margin optimization: A spectral tangential interpolation approach, Int J Control 63(3) 577-590 (Feb 1996), 8T285

New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), J Dalian Univ Tech 35(5) 633-638 (Oct 1995), 8A286

Optimality conditions for a constrained control problem, SIAM J Control Optim 34(2) 635-659 (Mar 1996), 8T287

Robust H ∞ model reference tracking design for nonholonomic mechanical control systems, Int J Control 63(2) 283-306 (Jan 1996), 8A288

Should controls be eliminated while solving optimal control problems via direct methods?, J Guidance Control Dyn 19(2) 418-423 (Apr 1996), 8A289

Solar cars and variational problems equivalent to shortest paths, SIAM J Control Optim 34(2) 428-436 (Mar 1996), 8T290

Effect of sampling period on the behavior of systems incorporating state feedback, Int J Control 63(2) 351-364 (Jan 1996), 8T293

Reduced-order compensation using the Hyland-Bernstein optimal projection equations, J Guidance Control Dyn 19(2) 407-417 (Apr 1996), 8T304

Analytical missile guidance laws with a time-varying transformation, J Guidance Control Dyn 19(2) 496-499 (Apr 1996), 8T306

Dense-sparse discretization for optimization and real-time guidance, J Guidance Control Dyn 19(2) 501-503 (Apr 1996), 8T308

Dynamic programming approach for burnout-to-apogee guidance of precision munitions, J Guidance Control Dyn 19(2) 340-346 (Apr 1996), 8T310

Linear quadratic pursuit-evasion games with terminal velocity constraints, J Guidance Control Dyn 19(2) 499-501 (Apr 1996), 8T313

Low-thrust flyby guidance and an extended optimal spacing rule, J Guidance Control Dyn 19(2) 347-354 (Apr 1996), 8T315

Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, Optimal Control Appl Methods 17(1) 45-69 (Mar 1996), 8T316

Advanced helicopter flight control using two-dof H^∞ optimization, J Guidance Control Dyn 19(2) 461-468 (Apr 1996), 8A323

Integrated aircraft-controller design using linear matrix inequalities, J Guidance Control Dyn 19(2) 445-452 (Apr 1996), 8T329

Optimal control of HVAC systems using DDP and NLP techniques, Optimal Control Appl Methods 17(1) 71-78 (Mar 1996), 8A336

Design of redundancy relations for failure detection and isolation by constrained optimization, Int J Control 63(3) 609-622 (Feb 1996), 8A346

Time-optimal control of multiple cooperating manipulators with trajectory and motion program constraints, J Robotic Syst 13(4) 229-241 (Apr 1996), 8A362

Stability augmentation design of a large flexible transport using nonlinear parameter optimization, J Guidance Control Dyn 19(2) 469-474 (Apr 1996), 8A1018

Global Methods in Optimal Control Theory - Pure and Applied Mathematics Series, Vol 195 (Marcel Dekker, New York, 1996) 9R5

Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, JSME Int J Ser C 39(1) 41-48 (Mar 1996), 9A413

Selecting the performance weights for the μ and H∞ synthesis methods for SISO regulating systems, J Dyn Syst Meas Control 118(1) 126-131 (Mar 1996), 9A414

LQR for state-bounded structural control, J Dyn Syst Meas Control 118(1) 113-119 (Mar 1996), 9A426

Time-energy optimal control of articulated systems with geometric path constraints, J Dyn Syst Meas Control 118(1) 139-143 (Mar 1996), 9A431

Horizontal axis wind turbine control: Comparison of classical, LQG and H∞ designs, Dyn Control 6(2) 143-161 (Apr 1996), 9A435

Optimal control of an n-legged robot, J Syst Control Eng 210(11) 51-63 (1996), 9A451

State-set estimation algorithm for linear systems in the presence of bounded disturbances, Int J Control 63(4) 799-811 (Mar 1996), 10T401

Adaptive control for time optimal tracking systems, Int J Control 63(5) 951-964 (Mar 1996), 10A405

Hermitian solutions of the discrete-time algebraic Riccati equation, Int J Control 63(5) 921-936 (Mar 1996), 10T409

Augmented Lagrangian-SQP methods for nonlinear optimal control problems of tracking type, SIAM J Control Optim 34(3) 874-891 (May 1996), 10T410

Finite-dimensional approximation of a class of constrained nonlinear optimal control problems, SIAM J Control Optim 34(3) 1001-1043 (May 1996), 10A411

Gain optimization under control structure and stability region constraints, Int J Control 63(5) 849-864 (Mar 1996), 10A412

Optimal control of gas pipelines via infinite-dimensional analysis, Int J Numer Methods Fluids 22(9) 867-879 (May 1996), 10A413

Optimal control of the linear wave equation, Int J Control 63(5) 833-848 (Mar 1996), 10T414

Optimal positioning of anodes for cathodic protection, SIAM J Control Optim 34(3) 855-873 (May 1996), 10A415

Output feedback H_∞ control of systems with parameter uncertainty, Int J Control 63(4) 741-750 (Mar 1996), 10T416

Thevenin decomposition and large-scale optimization, J Optim Theory Appl 89(1) 1-15 (Apr 1996), 10T417

Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, Int J Control 63(4) 703-719 (Mar 1996), 10A427

Tools for asymmetry rectification in shape design, J Syst Eng 6(2) 98-112 (1996), 10A881

Robust design for unconstrained optimization problems using the Taguchi method, AIAA J 34(5) 1059-1063 (May 1996), 10A1029

Global Methods in Optimal Control Theory - Pure and Applied Mathematics Series, Vol 195 (Marcel Dekker, New York, 1996) 11R20

Design sensitivity analysis and optimization of nonlinear dynamic response for a motorcycle driving on a half-sine bump road, Struct Optim 11(2) 113-119 (Apr 1996), 11A7

Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, J Guidance Control Dyn 19(3) 643-649 (Jun 1996), 11A267

Direct optimization of gain scheduled controllers via genetic algorithms, J Guidance Control Dyn 19(3) 636-642 (Jun 1996), 11A275

Direct optimization using collocation based on high-order Gauss-Lobatto quadrature rules, J Guidance Control Dyn 19(3) 592-599 (Jun 1996), 11T276

Discrete-time mixed-norm H_2/H_∞ controller synthesis, Optimal Control Appl Methods 17(2) 107-121 (Jun 1996), 11A277

Discrete-time mixed-norm H_2/H_∞ controller synthesis, Optimal Control Appl Methods 17(2) 107-121 (Jun 1996), 11A277

Gradient flow approach to decentralized output feedback optimal control, Syst Control Lett 27(4) 223-231 (Apr 1996), 11A278

H_∞ control problem with zeros on the boundary of the stability domain, Int J Control 63(6) 1029-1053 (Apr 1996), 11T279

H_∞ control via output feedback for state delayed systems, Int J Control 64(1) 1-7 (May 1996), 11A280

H_∞-control of nonlinear time-varying with finite time horizon, Int J Control 64(2) 241-262 (May 1996), 11A281

H_∞-control with output feedback for time-varying discrete systems, Int J Control 63(6) 1167-1178 (Apr 1996), 11A282

Linear quadratic regulator loop shaping for high frequency compensation, Int J Control 63(6) 1055-1068 (Apr 1996), 11A283

Mixed H_2/H_∞ optimal control for an elastic aircraft, J Guidance Control Dyn 19(3) 650-655 (Jun 1996), 11A284

Quantitative performance robustness linear quadratic optimal system design, J Guidance Control Dyn 19(3) 600-604 (Jun 1996), 11A285

Root loci of H_∞ optimal control: A polynomial approach, Optimal Control Appl Methods 17(2) 79-105 (Jun 1996), 11A286

Shooting method for the numerical solution of optimal control problems with bounded state variables, J Optim Theory Appl 89(2) 351-372 (May 1996), 11A287

Structure of a 2-dof H^∞ loop shaping controller, Int J Control 63(6) 1105-1127 (Apr 1996), 11T288

Output-feedback mixed H_∞/H_2 control: A dynamic game approach, Int J Control 64(2) 263-279 (May 1996), 11T296

Inertial space optimal trajectories of aerial 3D pursuit-evasion differential game, J Guidance Control Dyn 19(3) 612-620 (Jun 1996), 11T309

Parametric robustness evaluation of a H_∞ missile autopilot, J Guidance Control Dyn 19(3) 621-627 (Jun 1996), 11A315

Optimal control of a rigid body with dissimilar actuators, J Guidance Control Dyn 19(3) 738-740 (Jun 1996), 11T329

Optimal vibration control with modal positive position feedback, Optimal Control Appl Methods 17(2) 141-149 (Jun 1996), 11A331

Residual generation and fault detection for discrete-time systems using an l_∞ technique, Int J Control 64(1) 155-174 (May 1996), 11A363

Optimal control approach to extreme local maxima for stochastic Duffing-type oscillators, J Sound Vib 193(3) 597-629 (Jun 1996), 12A136

Nonlinear receding-horizon state estimation by real-time optimization technique, J Guidance Control Dyn 19(4) 863-870 (Aug 1996), 12A329

Sensitivity analysis in vector optimization, J Optim Theory Appl 89(3) 713-730 (Jun 1996), 12T333

H_∞ synthesis of robust current error feedback learning control, J Dyn Syst Meas Control 118(2) 341-346 (Jun 1996), 12A335

Inverse optimality in robust stabilization, SIAM J Control Optim 34(4) 1365-1391 (Jul 1996), 12T340

Bounds in algebraic Riccati and Lyapunov equations: A survey and some new results, Int J Control 64(3) 377-389 (Jun 1996), 12T346

Consistent approximations for optimal control problems based on Runge-Kutta integration, SIAM J Control Optim 34(4) 1235-1269 (Jul 1996), 12T347

Discrete linear bilevel programming problem, J Optim Theory Appl 89(3) 597-614 (Jun 1996), 12T348

Dynamic boundary evaluation method for approximate optimal lunar trajectories, J Guidance Control Dyn 19(4) 976-978 (Aug 1996), 12T349

Formulation and theory of the Newton interior-point method for nonlinear programming, J Optim Theory Appl 89(3) 507-541 (Jun 1996), 12T350

Generalized solutions of nonlinear optimization problems with impulse control, SIAM J Control Optim 34(4) 1420-1440 (Jul 1996), 12A351

Generalized sufficient condition for time-optimal control, J Dyn Syst Meas Control 118(2) 393-396 (Jun 1996), 12A352

Observer-based compensators for fixed-order H_∞ control, Int J Control 64(3) 441-461 (Jun 1996), 12A353

Optimal output feedback regulator: A numerical synthesis approach for input-output data, J Dyn Syst Meas Control 118(2) 360-366 (Jun 1996), 12A354

Optimally scaled H_∞ full information control synthesis with real uncertainty, J Guidance Control Dyn 19(4) 854-862 (Aug 1996), 12T355

Pole assignment for optimal regulators with a nonnegative definite weighting matrix, J Guidance Control Dyn 19(4) 967-969 (Aug 1996), 12T356

Practical solution to the deterministic nonhomogeneous LQR problem, J Dyn Syst Meas Control 118(2) 354-360 (Jun 1996), 12A357

A priori estimate for discrete approximations in nonlinear optimal control, SIAM J Control Optim 34(4) 1315-1328 (Jul 1996), 12T358

Solving multiple-objective problems in the objective space, J Optim Theory Appl 89(3) 659-680 (Jun 1996), 12T359

Synthesis of optimal H_∞ controllers via H_2-based loop-shaping design, J Guidance Control Dyn 19(4) 878-885 (Aug 1996), 12T360

μ Synthesis using linear quadratic Gaussian controllers, J Guidance Control Dyn 19(4) 886-892 (Aug 1996), 12A361

Constrained tracking control of nonlinear systems, Syst Control Lett 27(5) 305-314 (May 1996), 12A364
Design of near-optimal observer-based controllers for singularly perturbed discrete systems, JSME Int J Ser C 39(2) 234-241 (Jun 1996), 12A370
Iterative LQG controller design through closed-loop identification, J Dyn Syst Meas Control 118(2) 366-372 (Jun 1996), 12A374
Optimized feedforward design scheme unifying regulator and command generator tracker, J Guidance Control Dyn 19(4) 899-904 (Aug 1996), 12A390
Asymptotic linear quadratic control for lightly damped structures, J Guidance Control Dyn 19(4) 969-972 (Aug 1996), 12T400
Optimal preview control of a two dof vehicle model using stochastic optimal control theory, Vehicle Syst Dyn 25(6) 413-430 (Jun 1996), 12A410
Optimal sensor placement of large flexible space structures, J Guidance Control Dyn 19(4) 961-963 (Aug 1996), 12T411
Real-time optimal state feedback control for tethered subsatellite system, J Guidance Control Dyn 19(4) 972-974 (Aug 1996), 12T414
Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, J Dyn Syst Meas Control 118(2) 300-308 (Jun 1996), 12A456
Hierarchical production policies in stochastic two-machine flowshops with finite buffers, J Optim Theory Appl 89(3) 681-712 (Jun 1996), 12T475
Multicriteria simulation and analysis, J Machinery Manuf Reliab 1 88-94 (1996), 12A973

202C. Nonlinear systems

Comparative study of vibrations of elasto-viscoplastic shells and plates, Eng Trans 43(1-2) 183-204 (1995), 1A148
Decentralized sliding mode control in three-axis intertial platforms, J Guidance Control Dyn 18(4) 773-781 (Aug 1995), 1A377
Systematic design of robust controllers for nonlinear uncertain systems, Int J Control 62(4) 871-892 (Oct 1995), 2T243
Extended integral method to derive Lyapunov functions for nonlinear systems, Int J Control 62(3) 717-736 (Sep 1995), 2T248
Nonlinear optimal control problems with state constraints, SIAM J Control Optim 33(5) 1411-1424 (Sep 1995), 2T264
Design of compensators for actuator saturation, J Syst Control Eng 209(I3) 157-164 (1995), 2A269
Non-holonomic control systems: From steering to stabilization with sinusoids, Int J Control 62(4) 849-870 (Oct 1995), 2A270
Optimal predictive control of continuous nonlinear systems, Int J Control 62(3) 633-649 (Sep 1995), 2A271
Removal, suppression, and control of chaos by nonlinear design, Appl Mech Rev 48(12) 795-808 (Dec 1995), 2A272
Robust control of MIMO nonlinear systems with mismatched uncertainty, Int J Control 62(4) 961-981 (Oct 1995), 2A273
Trajectory tracking in nonlinear systems via nonlinear reduced-order observers, Int J Control 62(3) 685-715 (Sep 1995), 2A274
Use of neural networks for identification of linear and nonlinear systems, Meccanica 30(4) 377-388 (Aug 1995), 2A275
Methods for finding feasible points in constrained optimization, AIAA J 33(9) 1715-1719 (Sep 1995), 2A726
Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, Mech Solids 30(1) 23-30 (1995), 3A80
Dynamics of a versatile sliding control, Dyn Control 5(4) 347-363 (Oct 1995), 3A316
Finite-dimensional optimal controllers for nonlinear plants, Syst Control Lett 26(3) 223-230 (Oct 1995), 3A322
Optimal nonlinear, but continuous, feedback control of systems with saturating actuators, Int J Control 62(5) 1209-1216 (Nov 1995), 3T328
Nonlinear feedback control with global stabilization, Dyn Control 5(4) 321-346 (Oct 1995), 3T330
Sliding mode stabilization of uncertain systems using only output information, Int J Control 62(5) 1129-1144 (Nov 1995), 3T331
Control over periodic modes of parametrically excited harmonically linearizable mechanical systems, J Machinery Manuf Reliab 1 63-72 (1995), 3A334
Design of a global sliding-mode controller for a motor drive with bounded control, Int J Control 62(5) 1001-1019 (Nov 1995), 3A346
Dissipative controllers for nonlinear multibody flexible space structures, J Guidance Control Dyn 18(5) 1044-1052 (Oct 1995), 3A365
Feedback linearization of a heat exchanger, Syst Control Lett 26(3) 203-209 (Oct 1995), 3A384
Switching control strategy for the power system stabilization problem, Int J Control 62(5) 1021-1036 (Nov 1995), 3A385
Adaptive control of jump parameter systems via nonlinear filtering, SIAM J Control Optim 33(6) 1758-1777 (Nov 1995), 4T338
Approximate linearization of control systems with discontinuous nonlinearities, Optimal Control Appl Methods 16(5) 341-359 (Dec 1995), 4T341
Direct optimal control of nonlinear systems via Hamilton's law of varying action, J Dyn Syst Meas Control 117(3) 262-269 (Sep 1995), 5A319
Minimal robust servo-regulator for nonlinear systems, Syst Control Lett 26(5) 313-320 (Dec 1995), 5T320
New systematic design of high-gain feedback for nonlinear systems with unmatched uncertainties, Int J Control 62(6) 1471-1489 (Dec 1995), 5A321
Optimal asymptotic robust performance via nonlinear controllers, Int J Control 62(6) 1367-1389 (Dec 1995), 5A325
Nonlinear Feedback Control Systems: An Operator Theory Approach (Academic, San Diego, CA, 1993) 6R9
Bang-bang control of the angular motion of a rigid body, Mech Solids 30(3) 8-14 (1995), 6A74
Optimal feedback control of a nonlinear system: Wing rock examples, J Guidance Control Dyn 19(1) 166-171 (Feb 1996), 6A289
Linear robust control of nonlinear systems: Elevation control of hovercraft via multi-sectional control, JSME Int J Ser C 38(4) 701-707 (Dec 1995), 6A295
Nonlinear control of dual-spin spacecraft during despin through precission phase lock, J Guidance Control Dyn 19(1) 60-67 (Feb 1996), 6A296
Feedback design for unstable plants with saturating nonlincarities: Single-input, single-output, J Guidance Control Dyn 19(1) 191-197 (Feb 1996), 6A300
Nonlinear H_∞ optimal control for agile missiles, J Guidance Control Dyn 19(1) 157-165 (Feb 1996), 6A314
Optimal control of the blowup time, SIAM J Control Optim 34(1) 102-123 (Jan 1996), 7T382
Adaptive sliding mode control for variable structure systems with constraint control input, Dyn Control 6(1) 49-61 (Jan 1996), 7T387
Dynamic integrated system optimization and parameter estimation for discrete time optimal control of nonlinear systems, Int J Control 63(2) 257-281 (Jan 1996), 8A279
Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, Optimal Control Appl Methods 17(1) 29-43 (Mar 1996), 8T281
Control of the motion of a cylindrical body in a viscous modium for optimal energy consumption, J Appl Math Mech 59(5) 691-699 (1995), 8A291
Attentuation of nonlincarly state-dependent uncertaintics: Robust control design and its application to robotic manipulators, Int J Control 63(1) 27-40 (Jan 1996), 8A298
Continuous-time formulation of nonlinear model predictive control, Int J Control 63(1) 121-146 (Jan 1996), 8A299
Design of static reactive power compensator using fuzzy sliding mode control, Int J Control 63(2) 393-413 (Jan 1996), 8A338
Tracking the gradient of artificial potential fields: Sliding mode control for mobile robots, Int J Control 63(3) 417-432 (Feb 1996), 8A355
Simple feedback control system: Bifurcations of periodic orbits and chaos, Nonlinear Dyn 9(4) 391-417 (Apr 1996), 9A164
Performance analysis of controlled uncertain systems, Dyn Control 6(2) 131-142 (Apr 1996), 9A412
Experimental robustness study of a second-order sliding mode controller, J Dyn Syst Meas Control 118(1) 184-187 (Mar 1996), 9A415
Modeling and control of nonlinear, operating point dependent systems via associative memory networks, Dyn Control 6(2) 199-218 (Apr 1996), 9T416
Speed tracking and vehicle follower control design for heavy-duty vehicles, Vehicle Syst Dyn 25(4) 251-276 (Apr 1996), 9A430
Robust throttle control of automotive engines: Theory and experiment, J Dyn Syst Meas Control 118(1) 92-98 (Mar 1996), 9A436
Control System Dynamics (Cambridge UP, New York, 1996) 10R12
Global first harmonic bifurcation diagram for odd piecewise linear control systems, Dyn Stability Syst 11(1) 49-88 (1996), 10A104
Global stabilization of the oscillating eccentric rotor, Nonlinear Dyn 10(1) 49-62 (May 1996), 10A105
Augmented Lagrangian-SQP methods for nonlinear optimal control problems of tracking type, SIAM J Control Optim 34(3) 874-891 (May 1996), 10T410
Finite-dimensional approximation of a class of constrained nonlinear optimal control problems, SIAM J Control Optim 34(3) 1001-1043 (May 1996), 10A411
Adaptive control of nonlinear systems with nonlinear parameterization, Syst Control Lett 27(2) 87-97 (Feb 1996), 10T418
Feedback control of two-time-scale nonlinear systems, Int J Control 63(5) 965-994 (Mar 1996), 10A419
Feedback stabilization of connected nonlinear oscillators with uncontrollable linearization, Syst Control Lett 27(3) 181-185 (Mar 1996), 10A420
State-space supervisory control of reconfigurable discrete event systems, Int J Control 63(4) 767-797 (Mar 1996), 10A421
Genetic algorithm automated approach to the design of sliding mode control systems, Int J Control 63(4) 721-739 (Mar 1996), 10A426
Design sensitivity analysis and optimization of nonlinear dynamic response for a motorcycle driving on a half-sine bump road, Struct Optim 11(2) 113-119 (Apr 1996), 11A7
Sensitivity limitations in nonlinear feedback control, Syst Control Lett 27(4) 249-254 (Apr 1996), 11T268
H_∞-control of nonlinear time-varying with finite time horizon, Int J Control 64(2) 241-262 (May 1996), 11A281
Co-states for sliding mode design in linear systems, Syst Control Lett 27(4) 233-242 (Apr 1996), 11T289
Linear quadratic optimal model-following control of a helicopter in hover, Optimal Control Appl Methods 17(2) 123-140 (Jun 1996), 11A290
Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems, Int J Control 63(6) 1149-1166 (Apr 1996), 11A291
P-type iterative learning controller for robust output tracking of nonlinear time-varying systems, Int J Control 64(2) 319-334 (May 1996), 11T297
Sliding control using output feedback, J Guidance Control Dyn 19(3) 731-733 (Jun 1996), 11T301
Spacecraft Euler parameter tracking of large-angle mancuvers via sliding mode control, J Guidance Control Dyn 19(3) 702-703 (Jun 1996), 11T302
Stable inversion of nonlinear non-minimum phase systems, Int J Control 64(1) 81-97 (May 1996), 11A303
Design of an autoland controller for an F-14 aircraft using H_∞ synthesis, J Guidance Control Dyn 19(3) 656-663 (Jun 1996), 11A323
Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, Int J Control 64(2) 217-239 (May 1996), 11A355
Residual generation and fault detection for discrete-time systems using an l_∞ technique, Int J Control 64(1) 155-174 (May 1996), 11A363
Adaptive Control of Systems with Actuator and Sensor Nonlinearities - Series on Adaptive and Learning Systems for Signal Processing, Communications, and Control (Wiley, New York, 1996) 12R11
Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series (Prentice Hall, Upper Saddle River, NJ, 1995) 12R12
Nonlinear receding-horizon state estimation by real-time optimization technique, J Guidance Control Dyn 19(4) 863-870 (Aug 1996), 12A329
Inverse optimality in robust stabilization, SIAM J Control Optim 34(4) 1365-1391 (Jul 1996), 12T340
Generalized solutions of nonlinear optimization problems with impulse control, SIAM J Control Optim 34(4) 1420-1440 (Jul 1996), 12A351
A priori estimate for discrete approximations in nonlinear optimal control, SIAM J Control Optim 34(4) 1315-1328 (Jul 1996), 12T358
Analysis and design of a nonlinear robust controller, J Dyn Syst Meas Control 118(2) 339-341 (Jun 1996), 12A362
Approximate feedback linearization: A normal form approach, J Dyn Syst Meas Control 118(2) 201-210 (Jun 1996), 12A363
Constrained tracking control of nonlinear systems, Syst Control Lett 27(5) 305-314 (May 1996), 12A364
Kalman-Yakubovich-Popov lemma, Syst Control Lett 28(1) 7-10 (Jun 1996), 12T365
Numerical approach to nonlinear control design, J Dyn Syst Meas Control 118(2) 332-337 (Jun 1996), 12A366
Reaching conditions for variable structure control with output feedback, J Guidance Control Dyn 19(4) 848-853 (Aug 1996), 12A367
Sliding mode control design in multi-input perturbed discrete-time systems, J Dyn Syst Meas Control 118(2) 322-327 (Jun 1996), 12T368
Immersion of discrete-time nonlinear system by regular dynamic state feedback into a linear system, Int J Control 64(3) 361-376 (Jun 1996), 12T371
Covariance controller design incorporating optimal estimation for nonlinear stochastic systems, J Dyn Syst Meas Control 118(2) 346-349 (Jun 1996), 12A373
Adaptive control of feedback linearizable nonlinear systems with application to flight control, J Guidance Control Dyn 19(4) 871-877 (Aug 1996), 12A398
Comparison between linear and nonlinear control of an electropneumatic servodrive, J Dyn Syst Meas Control 118(2) 245-252 (Jun 1996), 12A422
Implicit nonlinear robust control for an electrohydraulic system with uncertainties, J Syst Control Eng 210(I2) 103-111 (1996), 12A425
Fuzzy neural controller design for use with a nonlinear system, J Syst Control Eng 210(I2) 141-150 (1996), 12A429

202D. Discrete systems

Optimal design of robust predictors for linear discrete-time systems, Syst Control Lett 26(1) 25-31 (Sep 1995), 2T251
State-space approach to discrete-time H_2-optimal control with a causality constraint, Syst Control Lett 26(1) 69-77 (Sep 1995), 2T267
State-space solutions to $H^{(2)}$ sampled-data control problems, Syst Control Lett 26(1) 55-63 (Sep 1995), 2T268
Engineering Vibration Analysis with Application to Control Systems (Halsted, New York, 1996) 3R11
Stability of control forces in redundant multibody systems, Comput Struct 58(1) 115-121 (Jan 1996), 3A332
Sampled-data minimum ∞ -norm regulation of linear continuous-time systems using multirate-output controllers, J Optim Theory Appl 87(2) 235-267 (Nov 1995), 4T357
Open loop strategies for the control of a disk rolling on a horizontal plane, Comput Methods Appl Mech Eng 127(1-4) 227-240 (Nov 1995), 4A362
Discrete event control of robotic assembly tasks, J Dyn Syst Meas Control 117(3) 384-393 (Sep 1995), 5A378
Alternating convex projection methods for discrete-time covariance control design, J Optim Theory Appl 88(2) 399-432 (Feb 1996), 7A385
Dynamic integrated system optimization and parameter estimation for discrete time optimal control of nonlinear systems, Int J Control 63(2) 257-281 (Jan 1996), 8A279
Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, Optimal Control Appl Methods 17(1) 29-43 (Mar 1996), 8T281
Adaptive control of time-varying discrete-time systems: Stability and instability analysis for a first-order process, J Syst Eng 6(1) 12-19 (1996), 8A292
Effect of sampling period on the behavior of systems incorporating state feedback, Int J Control 63(2) 351-364 (Jan 1996), 8T293
Robust digital tracking with perturbation estimation via the Euler operator, Int J Control 63(2) 239-256 (Jan 1996), 8A294
Analysis of sub-rate control systems, Int J Control 63(2) 365-392 (Jan 1996), 8T297
Industrial Servo Control Systems: Fundamentals and Applications - Fluid Power and Control Series, Vol 13 (Marcel Dekker, New York, 1996) 10R13
Hermitian solutions of the discrete-time algebraic Riccati equation, Int J Control 63(5) 921-936 (Mar 1996), 10T409
Discretization chaos: Variable structure systems with finite switching values, Appl Math Comp Sci 6(1) 49-66 (1996), 10A422
Linear Control Systems Engineering (McGraw-Hill, New York, 1996) 11R21
Digital Control Systems Implementation and Computational Techniques - Control and Dynamic Systems: Advances in Theory and Applications, Vol 79 (Academic, San Diego, CA, 1996) 11N22
H_∞-control with output feedback for time-varying discrete systems, Int J Control 63(6) 1167-1178 (Apr 1996), 11A282
Sampled-data system with computation time delay: Optimal W-synthesis method, J Guidance Control Dyn 19(3) 584-591 (Jun 1996), 11A292
Design of practically stable n-dimensional feedback systems: A state-space approach, Int J Control 64(1) 29-39 (May 1996), 11A294
Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, Int J Control 64(2) 217-239 (May 1996), 11A355
Absolute stability of sampled-data systems with a sector nonlinearity, Syst Control Lett 27(5) 293-304 (May 1996), 12A320
Stability of a class of discrete event systems using Markov chains, Int J Control 64(3) 391-408 (Jun 1996), 12T323
A priori estimate for discrete approximations in nonlinear optimal control, SIAM J Control Optim 34(4) 1315-1328 (Jul 1996), 12T358
Sliding mode control design in multi-input perturbed discrete-time systems, J Dyn Syst Meas Control 118(2) 322-327 (Jun 1996), 12T368
Active control of SDF systems using artificial neural networks, Comput Struct 60(5) 695-703 (Jul 1996), 12A369
Design of near-optimal observer-based controllers for singularly perturbed discrete systems, JSME Int J Ser C 39(2) 234-241 (Jun 1996), 12A370
Immersion of discrete-time nonlinear system by regular dynamic state feedback into a linear system, Int J Control 64(3) 361-376 (Jun 1996), 12T371
Regional pole placement method for discrete-time systems, J Guidance Control Dyn 19(4) 974-976 (Aug 1996), 12T379

202E. Distributed parameter and delayed systems

Iterative dynamic programming for minimum energy control problems with time delay, Optimal Control Appl Methods 16(3) 217-227 (Sep 1995), 1A386
Grammian assignment for stochastic parameter systems and their stabilization under randomly varying delays, Optimal Control Appl Methods 16(4) 263-272 (Sep 1995), 2A253
Closed-loop control of systems over a communications network with queues, Int J Control 62(3) 493-510 (Sep 1995), 2A276
Robust tracking and model following for uncertain time-delay systems, Int J Control 62(3) 589-600 (Sep 1995), 2A277
Harmonic balance in delay-differential equations, J Sound Vib 186(4) 649-656 (Oct 1995), 3A319
Fuel-time optimal control of the benchmark problem, J Guidance Control Dyn 18(6) 1225-1231 (Dec 1995), 4A351
Feedback control of a heat diffusion system with time-dependent spatial domain, Optimal Control Appl Methods 16(5) 305-320 (Dec 1995), 4A383
Analysis and FE approximation of optimal control problems for a Ladyzhenskaya model for stationary, incompressible, viscous flows, J Comput Appl Math 61(3) 323-343 (Aug 1995), 4A971
Regional controllability of distributed parameter systems, Int J Control 62(6) 1351-1365 (Dec 1995), 5A299
Robust time-delay control of multimode systems, Int J Control 62(6) 1319-1339 (Dec 1995), 5A322
Sensitivity analysis for feedforward control system design, J Acoust Soc Am 98(6) 3352-3359 (Dec 1995), 5A323
Evaluation of several controller synthesis methodologies using a rotating flexible beam as a test bed, J Dyn Syst Meas Control 117(3) 360-373 (Sep 1995), 5A331
Inverse force and motion control of constrained elastic robots, J Dyn Syst Meas Control 117(3) 374-383 (Sep 1995), 5A372
Sensitivity analysis of distributed-parameter optimal control problems for nonlinear parabolic equations, J Optim Theory Appl 87(3) 595-613 (Dec 1995), 6T277
Exact time-optimal control of the wave equation, J Guidance Control Dyn 19(1) 130-134 (Feb 1996), 6A284
Optimal control problems with state constraints for semilinear distributed-parameter systems, J Optim Theory Appl 88(1) 25-59 (Jan 1996), 6T288
Optimization of generalized potential in mission function control: Analytical and experimental results, J Guidance Control Dyn 19(1) 207-213 (Feb 1996), 6T291
Sufficient conditions for optimal control problems with time delay, J Optim Theory Appl 88(1) 157-176 (Jan 1996), 6A293
Approximate pole placement for acceleration feedback control of flexible structures, J Guidance Control Dyn 19(1) 256-259 (Feb 1996), 6T298
Control of a flexible beam using back electromotive force of motor, J Guidance Control Dyn 19(1) 135-140 (Feb 1996), 6A325
Minimum-time control characteristics of flexible structures, J Guidance Control Dyn 19(1) 123-129 (Feb 1996), 6A328
Conditions for robustness and nonrobustness of the stability of feedback systems with respect to small delays in the feedback loop, SIAM J Control Optim 34(2) 572-600 (Mar 1996), 8T263
New formulation of state constraint problems for first-order PDEs, SIAM J Control Optim 34(2) 554-571 (Mar 1996), 8T275
Control of the motions of a membrane by means of boundary forces, J Appl Math Mech 59(5) 701-710 (1995), 8A295
Fast algorithm for the static shape control of flexible structures, Comput Struct 59(3) 485-488 (May 1996), 8A296
Vibration control of an axially moving string by boundary control, J Dyn Syst Meas Control 118(1) 66-74 (Mar 1996), 9A193
Polynomials for the states and control of control systems with time delay, Dyn Control 6(2) 163-177 (Apr 1996), 9T417
Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, J Dyn Syst Meas Control 118(1) 58-65 (Mar 1996), 9A423
Adaptive output regulation of a flexible arm, J Dyn Syst Meas Control 118(1) 167-172 (Mar 1996), 9A459
Adaptive control of a class of time-delay systems with uncertain parameters, Int J Control 63(5) 937-950 (Mar 1996), 10A406
Finite-dimensional approximation of a class of constrained nonlinear optimal control problems, SIAM J Control Optim 34(3) 1001-1043 (May 1996), 10A411
Optimal control of the linear wave equation, Int J Control 63(5) 833-848 (Mar 1996), 10T414
Control of non-minimum phase singularly perturbed systems with application to flexible-link manipulators, Int J Control 63(4) 679-701 (Mar 1996), 10A486
H_∞ control via output feedback for state delayed systems, Int J Control 64(1) 1-7 (May 1996), 11A280
Mixed H_2/H_∞ optimal control for an elastic aircraft, J Guidance Control Dyn 19(3) 650-655 (Jun 1996), 11A284
Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems, Int J Control 63(6) 1149-1166 (Apr 1996), 11A291
Frequency domain control of single input-single output distributed parameter systems, J Guidance Control Dyn 19(3) 736-738 (Jun 1996), 11T293
Flexible-body dynamics modeling of a vehicle moving on the rails of a structure, J Guidance Control Dyn 19(3) 540-548 (Jun 1996), 11A326
Optimal vibration control with modal positive position feedback, Optimal Control Appl Methods 17(2) 141-149 (Jun 1996), 11A331
Wave approach for control of orientation and vibration of a flexible structure, J Guidance Control Dyn 19(3) 578-583 (Jun 1996), 11A338
Robust stabilization of large-scale time-delay systems with estimated state feedback, J Optim Theory Appl 89(3) 543-559 (Jun 1996), 12A321
Control of flexible manipulator systems, J Syst Control Eng 210(12) 113-130 (1996), 12A452

202F. Stochastic systems

Decentralized feedback controllers for uncertain interconnected systems with Markovian jumping parameters, Appl Math Comp Sci 5(3) 469-479 (1995), 1A382
Multipurpose control systems synthesis for non-square discrete-time multivariable plants, Appl Math Comp Sci 5(3) 491-510 (1995), 1T383
Stochastic Processes, Estimation, and Control - The Entropy Approach (Wiley, New York, 1995) 2R18
Variational approach to the polynomial optimization of multivariable control with colored noise at the controller output, Int J Control 62(5) 1037-1048 (Nov 1995), 3T329
Adaptive control of jump parameter systems via nonlinear filtering, SIAM J Control Optim 33(6) 1758-1777 (Nov 1995), 4T338
Stochastic neural network and its application to multi-maneuvering target tracking, Chinese J Aeronaut 8(1) 54-62 (Feb 1995), 6A297
Stochastic penalty function methods for nonsmooth constrained minimization, J Optim Theory Appl 88(3) 709-724 (Mar 1996), 7T383
Deterministic approximation for stochastic control problems, SIAM J Control Optim 34(1) 161-178 (Jan 1996), 7A386
LQG optimal scalar static output feedback, Syst Control Lett 27(1) 9-19 (Jan 1996), 7T469
Generalized minimum variance adaptive control and parameter convergence for stochastic systems, Int J Control 63(1) 147-160 (Jan 1996), 8T274
Investigation of using dynamic absorber to reduce random response (Chinese), J Vib Eng 9(1) 80-85 (Mar 1996), 10A423
Two-stage identification of interconnected steady-state systems with cascade structure: A parametric approach - Part 1: Background, Appl Math Comp Sci 6(1) 77-95 (1996), 10A424
Robustness of adaptive control for stochastic systems, Int J Control 64(3) 463-482 (Jun 1996), 12T322
Indirect identification of linear stochastic systems with known feedback dynamics, J Guidance Control Dyn 19(4) 836-841 (Aug 1996), 12A327
Covariance controller design incorporating optimal estimation for nonlinear stochastic systems, J Dyn Syst Meas Control 118(2) 346-349 (Jun 1996), 12A373

202H. Other systems and techniques

Shaping time response by state feedback in minimum-phase systems, J Guidance Control Dyn 18(4) 913-916 (Aug 1995), 1T375
Consistent model reduction of experimental modal parameters for reduced-order control, J Guidance Control Dyn 18(4) 748-755 (Aug 1995), 1T374
Mask-to-wafer fine gap setting method, Int J Japan Soc Precision Eng 29(1) 56-61 (Mar 1995), 1A384
Mean-deviational versus incremental models in adaptive control, Appl Math Comp Sci 5(3) 523-532 (1995), 1A385
Nonlinear decoupling control of aircraft motion, J Guidance Control Dyn 18(4) 812-816 (Aug 1995), 1A396
Application of Learning Automata to controller design in slow-active automobile suspensions, Vehicle Syst Dyn 24(8) 597-616 (Sep 1995), 1A407
Aircraft terrain following based on a nonlinear continuous predictive control approach, J Guidance Control Dyn 18(4) 817-823 (Aug 1995), 1A1117
Adaptive control of linear unstructured time-varying systems, Int J Control 62(3) 527-555 (Sep 1995), 2A245
Infinite-horizon multistage dynamic optimization problem, J Optim Theory Appl 86(3) 529-552 (Sep 1995), 2T262
Design of compensators for actuator saturation, J Syst Control Eng 209(13) 157-164 (1995), 2A269
Non-holonomic control systems: From steering to stabilization with sinusoids, Int J Control 62(4) 849-870 (Oct 1995), 2A270
Optimal predictive control of continuous nonlinear systems, Int J Control 62(3) 633-649 (Sep 1995), 2A271
Trajectory tracking in nonlinear systems via nonlinear reduced-order observers, Int J Control 62(3) 685-715 (Sep 1995), 2A274
Closed-loop control of systems over a communications network with queues, Int J Control 62(3) 493-510 (Sep 1995), 2A276
Active tendon control systems for structures subjected to multiple support excitation, Smart Mat Struct 4(3) 153-163 (Sep 1995), 2A278
Decentralized fuzzy control of multivariable systems by active decomposition of control laws, Int J Control 62(4) 781-798 (Oct 1995), 2T279
Internal model control with improved disturbance rejection, Int J Control 62(4) 983-999 (Oct 1995), 2T280
New robust state analytical predictor design for a general class of deadtime processes, Int J Control 62(3) 651-683 (Sep 1995), 2T281
Output feedback stabilization using variable structure control, Int J Control 62(4) 831-848 (Oct 1995), 2T282
Powell's method applied to learning neural control of three unknown dynamic systems, Optimal Control Appl Methods 16(4) 251-262 (Sep 1995), 2A289
Control of chaos: Higher periodic orbits, Dyn Control 5(4) 365-387 (Oct 1995), 3A95
Closed-loop system identification using the dual Youla control parametrization, Int J Control 62(5) 1175-1195 (Nov 1995), 3T314
Optimal nonlinear, but continuous, feedback control of systems with saturating actuators, Int J Control 62(5) 1209-1216 (Nov 1995), 3T328
Closed-form solutions to constrained control allocation problem, J Guidance Control Dyn 18(5) 1000-1007 (Oct 1995), 3T333
Control over periodic modes of parametrically excited harmonically linearizable mechanical systems, J Machinery Manuf Reliab 1 63-72 (1995), 3A334
Feedback system design for stable plants with input saturation, J Guidance Control Dyn 18(5) 1029-1035 (Oct 1995), 3A335
Model reference adaptive control for nonminimum phase systems, Syst Control Lett 26(3) 167-176 (Oct 1995), 3T336
New design for model reference robust control using state-space techniques, Int J Control 62(5) 1061-1084 (Nov 1995), 3A337
Nonlinear predictive control of feedback linearizable systems and flight control system design, J Guidance Control Dyn 18(5) 1023-1028 (Oct 1995), 3A338
Optimal pole placement in time-dependent linear systems, J Guidance Control Dyn 18(5) 995-999 (Oct 1995), 3A339
Substructure-based controller design method for flexible structures, J Guidance Control Dyn 18(5) 1053-1061 (Oct 1995), 3A340
Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), Proc JSCE 521(II-32) 193-205 (Aug 1995), 3A341
Flexible vehicle control using quantitative feedback theory, J Guidance Control Dyn 18(5) 1062-1067 (Oct 1995), 3A370
High resolution order tracking at extreme slew rates using Kalman tracking filters, Shock Vib 2(6) 507-515 (1995), 3A372
Switching control strategy for the power system stabilization problem, Int J Control 62(5) 1021-1036 (Nov 1995), 3A385
Optimal tradeoff between H_2 performance and tracking accuracy in servocompensator synthesis, J Guidance Control Dyn 18(6) 1239-1243 (Dec 1995), 4A353
Precision alignment technique for parts having thin features using measurement feedback iterative method in CAD-CAI environment, Int J Machine Tools Manuf 36(2) 217-227 (Feb 1996), 4A417
Synthesis of algorithms for controlling dynamic systems with constrained phase coordinates and control function, J Machinery Manuf Reliab 2 72-76 (1995), 5T311
Minimal robust servo-regulator for nonlinear systems, Syst Control Lett 26(5) 313-320 (Dec 1995), 5T320
New systematic design of high-gain feedback for nonlinear systems with unmatched uncertainties, Int J Control 62(6) 1471-1489 (Dec 1995), 5A321
Robust time-delay control of multimode systems, Int J Control 62(6) 1319-1339 (Dec 1995), 5A322
Connections between minimum entropy control and mixed H_2/H_∞ control for time-varying systems, Syst Control Lett 26(5) 341-347 (Dec 1995), 5T324
Optimal asymptotic robust performance via nonlinear controllers, Int J Control 62(6) 1367-1389 (Dec 1995), 5A325
Single-loop QFT design for robust performance in the presence of non-parametric uncertainties, J Dyn Syst Meas Control 117(3) 420-425 (Sep 1995), 5A326
Use of artificial intelligence in self-tuning PID controllers, J Syst Eng 5(4) 223-238 (1995), 5A327
XY-centering algorithm for the dual LMI problem: A new approach to fixed-order control design, Int J Control 62(6) 1257-1272 (Dec 1995), 5T328
Evaluation of several controller synthesis methodologies using a rotating flexible beam as a test bed, J Dyn Syst Meas Control 117(3) 360-373 (Sep 1995), 5A331
Adaptive control of robot manipulators in constrained motion: Controller design, J Dyn Syst Meas Control 117(3) 320-328 (Sep 1995), 5A370
Robustness of minimax controllers to nonlinear perturbations, J Optim Theory Appl 87(3) 631-678 (Dec 1995), 6T268
Approximate pole placement for acceleration feedback control of flexible structures, J Guidance Control Dyn 19(1) 256-259 (Feb 1996), 6T298
Design of stabilizing control laws for mechanical systems based on Lyapunov's method, J Guidance Control Dyn 19(1) 172-180 (Feb 1996), 6A299
Feedback design for unstable plants with saturating nonlinearities: Single-input, single-output, J Guidance Control Dyn 19(1) 191-197 (Feb 1996), 6A300
Multiple control effector rate limiting, J Guidance Control Dyn 19(1) 30-37 (Feb 1996), 6T301
Nearly nonminimal linear-quadratic-Gaussian compensators for reduced-order control design initialization, J Guidance Control Dyn 19(1) 259-261 (Feb 1996), 6T302
Prescribed pole placement with optimal weight selection for single-input controllable systems, J Guidance Control Dyn 19(1) 253-256 (Feb 1996), 6T303
Robust control design framework for substructure models, J Guidance Control Dyn 19(1) 181-190 (Feb 1996), 6A304
Robust dynamic output feedback sliding-mode control of singular perturbation systems, JSME Int J Ser C 38(4) 719-726 (Dec 1995), 6A305
Adaptive control via a simple switching algorithm, SIAM J Control Optim 34(1) 365-388 (Jan 1996), 7A376
Dynamic programming for nonlinear systems driven by ordinary and impulsive controls, SIAM J Control Optim 34(1) 199-225 (Jan 1996), 7A380
Optimal control of singular systems with a cost on changing control, Dyn Control 6(1) 63-89 (Jan 1996), 7T381
Uncertainty-averaging approach to output feedback optimal guaranteed cost control of uncertain systems, J Optim Theory Appl 88(2) 321-337 (Feb 1996), 7T384
Alternating convex projection methods for discrete-time covariance control design, J Optim Theory Appl 88(2) 399-432 (Feb 1996), 7A385
Adaptive sliding mode control for variable structure systems with constraint control input, Dyn Control 6(1) 49-61 (Jan 1996), 7T387
Switched mode feedback control laws for non-holonomic systems in extended power form, Syst Control Lett 27(1) 29-36 (Jan 1996), 7T388
Decentralized output feedback fault-tolerant control for uncertain large-scale systems, Chinese J Aeronaut 8(3) 222-229 (Aug 1995), 7A420
Feedback control of vortex shedding from a circular cylinder, Exp Fluids 20(3) 218-224 (Jan 1996), 7A1110
Generalized PI controllability, Int J Control 63(2) 307-330 (Jan 1996), 8A261
Feedback representation of precompensators: Application decoupling linear multi-input multi-output plants, Int J Control 63(1) 207-221 (Jan 1996), 8T278
Extensions to generalized LQG and H_∞ multivariable controllers, Int J Control 63(3) 507-517 (Feb 1996), 8T280
H_∞ norm computation for LTV systems using nonlinear optimal control algorithms, Int J Control 63(1) 161-182 (Jan 1996), 8T282
H_∞ optimal multichannel linear deconvolution filters, predictors and smoothers, Int J Control 63(3) 519-533 (Feb 1996), 8T283
Multivariable stability margin optimization: A spectral tangential interpolation approach, Int J Control 63(3) 577-590 (Feb 1996), 8T285
Robust H ∞ model reference tracking design for non-holonomic mechanical control systems, Int J Control 63(2) 283-306 (Jan 1996), 8A288
Analysis of sub-rate control systems, Int J Control 63(2) 365-392 (Jan 1996), 8T297
Attenuation of nonlinearly state-dependent uncertainties: Robust control design and its application to robotic manipulators, Int J Control 63(1) 27-40 (Jan 1996), 8A298
Continuous-time formulation of nonlinear model predictive control, Int J Control 63(1) 121-146 (Jan 1996), 8A299

Controller design for partial decoupling of linear multivariable systems, Int J Control 63(3) 535-556 (Feb 1996), 8A300
Frequency domain performance bounds for uncertain positive real systems, J Guidance Control Dyn 19(2) 398-406 (Apr 1996), 8T301
Global performance evaluation of image features for visual servo control, J Robotic Syst 13(4) 243-258 (Apr 1996), 8A302
Passivity-based analysis of the minimal control synthesis algorithm, Int J Control 63(1) 67-84 (Jan 1996), 8T303
Reduced-order compensation using the Hyland-Bernstein optimal projection equations, J Guidance Control Dyn 19(2) 407-417 (Apr 1996), 8T304
Adaptation of centers of approximation for nonlinear tracking control, J Guidance Control Dyn 19(2) 363-369 (Apr 1996), 8T305
Mixed-strategy guidance in future ship defense, J Guidance Control Dyn 19(2) 334-339 (Apr 1996), 8A317
Two dof controllers for multivariable model-matching systems: Application to a continuous stirred tank reactor, Optimal Control Appl Methods 17(1) 3-27 (Mar 1996), 8A337
Auto-tuning of low-order controllers by direct manipulation of closed-loop time domain measures, J Syst Control Eng 210(II) 13-30 (1996), 9A404
Selecting the performance weights for the μ and H∞ synthesis methods for SISO regulating systems, J Dyn Syst Meas Control 118(1) 126-131 (Mar 1996), 9A414
Experimental robustness study of a second-order sliding mode controller, J Dyn Syst Meas Control 118(1) 184-187 (Mar 1996), 9A415
Problems of mechanics of metal surface layers, Acta Phys Polonica A 89(2) 145-154 (Feb 1996), 9A418
Research and development of intelligent earthquake disaster prevention systems UrEDAS and HERAS (Japanese), Proc JSCE 531(I-34) 1-33 (Jan 1996), 9T419
New control approach for platoon operations during vehicle exit-entry, Vehicle Syst Dyn 25(4) 305-319 (Apr 1996), 9A428
Optimal preview semiactive suspension, J Dyn Syst Meas Control 118(1) 99-105 (Mar 1996), 9A429
Null controllability of nonlinear infinite delay systems with time varying multiple delays in control, Appl Math letters 9(3) 115-121 (May 1996), 10A389
Adaptive control of a class of time-delay systems with uncertain parameters, Int J Control 63(5) 937-950 (Mar 1996), 10A406
Gain optimization under control structure and stability region constraints, Int J Control 63(5) 849-864 (Mar 1996), 10A412
Output feedback H_∞ control of systems with parameter uncertainty, Int J Control 63(4) 741-750 (Mar 1996), 10T416
State-space supervisory control of reconfigurable discrete event systems, Int J Control 63(4) 767-797 (Mar 1996), 10A421
Dynamic pole assignment and Schubert calculus, SIAM J Control Optim 34(3) 813-832 (May 1996), 10T425
Genetic algorithm automated approach to the design of sliding mode control systems, Int J Control 63(4) 721-739 (Mar 1996), 10A426
Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, Int J Control 63(4) 703-719 (Mar 1996), 10A427
Parametric and classical resonance in passive satellite acrostabilization, J Spacecraft Rockets 33(2) 228-234 (Apr 1996), 10A950
Robustness of a minimal observer synthesis algorithm, Int J Control 64(1) 141-154 (May 1996), 11A265
Direct optimization of gain scheduled controllers via genetic algorithms, J Guidance Control Dyn 19(3) 636-642 (Jun 1996), 11A275
Linear quadratic regulator loop shaping for high frequency compensation, Int J Control 63(6) 1055-1068 (Apr 1996), 11A283
Quantitative performance robustness linear quadratic optimal system design, J Guidance Control Dyn 19(3) 600-604 (Jun 1996), 11A285
Root loci of H_∞ optimal control: A polynomial approach, Optimal Control Appl Methods 17(2) 79-105 (Jun 1996), 11A286
Co-states for sliding mode design in linear systems, Syst Control Lett 27(4) 233-242 (Apr 1996), 11T289
Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems, Int J Control 63(6) 1149-1166 (Apr 1996), 11A291
Design of practically stable n-dimensional feedback systems: A state-space approach, Int J Control 64(1) 29-39 (May 1996), 11A294
Deterministic adaptive control with slowly varying parameters: An averaging analysis, Int J Control 64(1) 99-125 (May 1996), 11A295
Output-feedback mixed H_∞/H_2 control: A dynamic game approach, Int J Control 64(2) 263-279 (May 1996), 11T296
P-type iterative learning controller for robust output tracking of nonlinear time-varying systems, Int J Control 64(2) 319-334 (May 1996), 11T297
Robust adaptive tracking using the internal model principle, Int J Control 64(1) 127-140 (May 1996), 11A298
Robust control design strategy with parameter-dominated uncertainty, J Guidance Control Dyn 19(3) 605-611 (Jun 1996), 11A299
Simplified adaptive model output following control for plants with unmodeled dynamics, Int J Control 64(1) 61-80 (May 1996), 11T300
Sliding control using output feedback, J Guidance Control Dyn 19(3) 731-733 (Jun 1996), 11T301
Spacecraft Euler parameter tracking of large-angle maneuvers via sliding mode control, J Guidance Control Dyn 19(3) 702-703 (Jun 1996), 11T302
Stable inversion of nonlinear non-minimum phase systems, Int J Control 64(1) 81-97 (May 1996), 11A303
Design of pulse width modulation controllers for stabilization and tracking in derived DC-to-DC power converters, Int J Control 64(2) 301-318 (May 1996), 11T340
Residual generation and fault detection for discrete-time systems using an $l_{2\delta}$ technique, Int J Control 64(1) 155-174 (May 1996), 11A363
H_∞ synthesis of robust current error feedback learning control, J Dyn Syst Meas Control 118(2) 341-346 (Jun 1996), 12A335
Partially decentralized adaptive control of interconnected systems with improved performance, Int J Control 64(3) 529-561 (Jun 1996), 12T341
Generalized solutions of nonlinear optimization problems with impulse control, SIAM J Control Optim 34(4) 1420-1440 (Jul 1996), 12A351
Observer-based compensators for fixed-order H_∞ control, Int J Control 64(3) 441-461 (Jun 1996), 12A353
Optimal output feedback regulator: A numerical synthesis approach for input-output data, J Dyn Syst Meas Control 118(2) 360-366 (Jun 1996), 12A354
Optimally scaled H_∞ full information control synthesis with real uncertainty, J Guidance Control Dyn 19(4) 854-862 (Aug 1996), 12T355
Pole assignment for optimal regulators with a nonnegative definite weighting matrix, J Guidance Control Dyn 19(4) 967-969 (Aug 1996), 12T356
Practical solution to the deterministic nonhomogeneous LQR problem, J Dyn Syst Meas Control 118(2) 354-360 (Jun 1996), 12A357
Synthesis of optimal H_∞ controllers via H_2-based loop-shaping design, J Guidance Control Dyn 19(4) 878-885 (Aug 1996), 12T360
μ Synthesis using linear quadratic Gaussian controllers, J Guidance Control Dyn 19(4) 886-892 (Aug 1996), 12A361
Approximate feedback linearization: A normal form approach, J Dyn Syst Meas Control 118(2) 201-210 (Jun 1996), 12A363
Numerical approach to nonlinear control design, J Dyn Syst Meas Control 118(2) 332-337 (Jun 1996), 12A366
Reaching conditions for variable structure control with output feedback, J Guidance Control Dyn 19(4) 848-853 (Aug 1996), 12A367
Computational approach to controllability issues for flow-related models - II: Control of 2D, linear advection-diffusion and Stokes models, Int J Comput Fluid Dyn 6(4) 253-274 (1996), 12T372
Covariance controller design incorporating optimal estimation for nonlinear stochastic systems, J Dyn Syst Meas Control 118(2) 346-349 (Jun 1996), 12A373
Iterative LQG controller design through closed-loop identification, J Dyn Syst Meas Control 118(2) 366-372 (Jun 1996), 12A374
Novel approach to reconfigurable control systems design, J Guidance Control Dyn 19(4) 963-966 (Aug 1996), 12T375
Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, Syst Control Lett 27(5) 315-324 (May 1996), 12T376
Output-driven minimal controller synthesis with an adaptive observer, J Syst Control Eng 210(12) 131-139 (1996), 12T377
Parametric control of conservative mechanical systems, J Dyn Syst Meas Control 118(2) 309-314 (Jun 1996), 12A378
Regional pole placement method for discrete-time systems, J Guidance Control Dyn 19(4) 974-976 (Aug 1996), 12T379
Control of wing rock motion using adaptive feedback linearization, J Guidance Control Dyn 19(4) 905-912 (Aug 1996), 12A383
Optimized feedforward design scheme unifying regulator and command generator tracker, J Guidance Control Dyn 19(4) 899-904 (Aug 1996), 12A390
Adaptive control of feedback linearizable nonlinear systems with application to flight control, J Guidance Control Dyn 19(4) 871-877 (Aug 1996), 12A398
Fuzzy neural controller design for use with a nonlinear system, J Syst Control Eng 210(12) 141-150 (1996), 12A429
Feedback control of vortex shedding from a circular cylinder by cross-flow cylinder oscillations, Exp Fluids 21(1) 49-56 (May 1996), 12A1135

202Y. Computational techniques

Multipurpose control systems synthesis for non-square discrete-time multivariable plants, Appl Math Comp Sci 5(3) 491-510 (1995), 1T383
Iterative dynamic programming for minimum energy control problems with time delay, Optimal Control Appl Methods 16(3) 217-227 (Sep 1995), 1A386
Augmented Lagrangian nonlinear programming algorithm that uses SQP and trust region techniques, J Optim Theory Appl 86(2) 311-325 (Aug 1995), 2A259
Penalty method for point and path state constraints in trajectory optimization, Optimal Control Appl Methods 16(4) 291-297 (Sep 1995), 2A265
FEM for the solution of state-constrained optimal control problems, J Guidance Control Dyn 18(5) 1036-1043 (Oct 1995), 3A23
Invariant imbedding and parallelism in dynamic programming for feedback control, J Optim Theory Appl 87(1) 121-140 (Oct 1995), 3A323
Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), Proc JSCE 521(II-32) 193-205 (Aug 1995), 3A341
Numerical approach to computing nonlinear H_∞ control laws, J Guidance Control Dyn 18(5) 989-994 (Oct 1995), 3A342
Parallel gradient distribution in unconstrained optimization, SIAM J Control Optim 33(6) 1916-1925 (Nov 1995), 4T355
Solution of optimal control problems by a pointwise projected Newton method, SIAM J Control Optim 33(6) 1731-1757 (Nov 1995), 4T358
Sylvester's equation: Accuracy and computational stability, J Comput Appl Math 61(1) 1-11 (Jul 1995), 4A363
New iterative method to solve optimal control problems with terminal constraints, J Guidance Control Dyn 19(1) 262-264 (Feb 1996), 6T286
Finite difference scheme for automatic costate calculation, J Guidance Control Dyn 19(1) 231-239 (Feb 1996), 6A306
Differential manifolds of the optimal solutions of a system of three ordinary equations, Arch Mech 48(1) 3-23 (1996), 9A411
Invariance of sliding motions with respect to control matrix, Arch Mech 48(1) 191-198 (1996), 9A420
Approximate relative controllability of retarded dynamical systems, Appl Math Comp Sci 6(1) 15-26 (1996), 10A428
Controller order reduction by using genetic algorithms, J Syst Eng 6(2) 113-118 (1996), 10A429
Midcourse guidance for a short-range attack missile using error compensation, J Spacecraft Rockets 33(2) 191-197 (Apr 1996), 10A430
Note on applications of interpolation theory to control problems of infinite-dimensional systems, Appl Math Comp Sci 6(1) 5-14 (1996), 10A431
Stabilization of linear descriptor systems by state-feedback controllers, Appl Math Comp Sci 6(1) 27-32 (1996), 10A432
Volterra series expansion for state quadratic systems, Appl Math Comp Sci 6(1) 67-76 (1996), 10A433
Digital Control Systems Implementation and Computational Techniques - Control and Dynamic Systems: Advances in Theory and Applications, Vol 79 (Academic, San Diego, CA, 1996) 11N22
Shooting method for the numerical solution of optimal control problems with bounded state variables, J Optim Theory Appl 89(2) 351-372 (May 1996), 11A287
Problem of information-measuring system reliability calculations, Russian Acronaut 38(3) 8-11 (1995), 11A304
Consistent approximations for optimal control problems based on Runge-Kutta integration, SIAM J Control Optim 34(4) 1235-1269 (Jul 1996), 12T347
Efficient computation of closed-loop frequency response for large-order flexible systems, J Guidance Control Dyn 19(4) 780-786 (Aug 1996), 12A404

204. SYSTEMS AND CONTROL APPLICATIONS

204B. Guidance, navigation, motion control

Two misconceptions in the theory of inertial navigation systems, J Guidance Control Dyn 18(4) 908-911 (Aug 1995), 1T93
Quasi-static control of natural frequencies of composite beams using embedded piezoelectric actuators, Smart Mat Struct 4(2) 106-112 (Jun 1995), 1A138
Decentralized sliding mode control in three-axis intertial platforms, J Guidance Control Dyn 18(4) 773-781 (Aug 1995), 1A377
Optimal modal-space controller for structural damping enhancements, J Guidance Control Dyn 18(4) 657-663 (Aug 1995), 1A380
Asymptotic behavior of the solution of the covariance equation for a navigational system, J Appl Math Mech 59(1) 87-92 (1995), 1A387
Closed loop momentum transfer maneuvers using multiwheels, J Guidance Control Dyn 18(4) 867-874 (Aug 1995), 1T388
Comparative analysis of the different methods for speed control of separately excited DC motor, Facta Series Mech Auto Control Robotic 1(3) 373-387 (1993), 1A389
Controllability and optimization in aeroassisted orbital transfer, J Guidance Control Dyn 18(4) 911-913 (Aug 1995), 1T390
Estimation and control of tethered satellite systems, J Guidance Control Dyn 18(4) 851-858 (Aug 1995), 1T391
Evaluation of optimal-guidance algorithm for aeroassisted orbit transfer, J Guidance Control Dyn 18(4) 718-722 (Aug 1995), 1T392
Experimental application of an explicit optimal linear quadratic Gaussian controller, J Guidance Control Dyn 18(4) 674-677 (Aug 1995), 1A393
Flight test of radar altimeter enhancement for terrain-referenced guidance, J Guidance Control Dyn 18(4) 702-708 (Aug 1995), 1T394
Human-in-the-loop evaluation of remote manipulator system active damping augmentation, J Guidance Control Dyn 18(4) 689-695 (Aug 1995), 1A395
Nonlinear decoupling control of aircraft motion, J Guidance Control Dyn 18(4) 812-816 (Aug 1995), 1A396
Optimal atmospheric trajectory for aerogravity assist with heat constraint, J Guidance Control Dyn 18(4) 723-730 (Aug 1995), 1T397
Optimal feedback guidance for low-thrust orbit insertion, Optimal Control Appl Methods 16(3) 155-173 (Sep 1995), 1A398
Optimal guidance of aeroassisted transfer vehicles based on matched expansions, J Guidance Control Dyn 18(4) 709-717 (Aug 1995), 1T399
Optimal low-thrust 3D earth-moon trajectories, J Guidance Control Dyn 18(4) 830-837 (Aug 1995), 1T400
Reconstructing trajectories from measurement data, J Appl Math Mech 59(1) 57-64 (1995), 1A401
Satellite autonomous navigation based on magnetic field measurements, J Guidance Control Dyn 18(4) 843-850 (Aug 1995), 1T402
Terminal spacecraft coplanar rendezvous control, J Guidance Control Dyn 18(4) 838-842 (Aug 1995), 1T403
U-parameter robust flight control design, J Guidance Control Dyn 18(4) 921-923 (Aug 1995), 1T404
Vibrations of the low power atmospheric compensation experiment satellite, J Guidance Control Dyn 18(4) 650-656 (Aug 1995), 1T405
Modeling, simulation, and control of robots and robotized FMS, Facta Series Mech Auto Control Robotic 1(3) 241-280 (1993), 1A424
Linearized impulsive rendezvous problem, J Optim Theory Appl 86(3) 553-584 (Sep 1995), 2T204
Relieved control in cyclic systems, Arch Appl Mech 65(7) 488-495 (Sep 1995), 2A283
Nutational stability and passive control of spinning rockets with internal mass motion, J Guidance Control Dyn 18(5) 1197-1203 (Oct 1995), 3T90
Modeling issues related to retrieval of flexible tethered satellite systems, J Guidance Control Dyn 18(5) 1169-1176 (Oct 1995), 3A164
Orbital strategies around a comet by means of a genetic algorithm, J Guidance Control Dyn 18(5) 1217-1220 (Oct 1995), 3T232
Nonlinear predictive control of feedback linearizable systems and flight control system design, J Guidance Control Dyn 18(5) 1023-1028 (Oct 1995), 3A338
Optimal pole placement in time-dependent linear systems, J Guidance Control Dyn 18(5) 995-999 (Oct 1995), 3A339
Back-to-turn optimal guidance with linear exponential quadratic Gaussian performance criterion, J Guidance Control Dyn 18(5) 951-958 (Oct 1995), 3A343
Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentation, J Intelligent & Robotic Syst 14(2) 219-238 (Oct 1995), 3A344
Control variables for FE solution of missile trajectory optimization, J Guidance Control Dyn 18(5) 1208-1211 (Oct 1995), 3T345
Design of a global sliding-mode controller for a motor drive with bounded control, Int J Control 62(5) 1001-1019 (Nov 1995), 3A346
Earth-to-moon transfer with a limited power engine, J Guidance Control Dyn 18(5) 1133-1138 (Oct 1995), 3A347
Experimental satellitic trajectory analysis using decision-based robust design, J Guidance Control Dyn 18(5) 1126-1132 (Oct 1995), 3A348
Fuel-optimal stationkeeping via differential inclusions, J Guidance Control Dyn 18(5) 1156-1162 (Oct 1995), 3T349
Linearized kappa guidance, J Guidance Control Dyn 18(5) 975-980 (Oct 1995), 3T350

Near-minimum-time eigenaxis rotation maneuvers using reaction wheels, J Guidance Control Dyn 18(5) 1184-1189 (Oct 1995), 3A351
Optimal guidance and nonlinear estimation for interception of accelerating targets, J Guidance Control Dyn 18(5) 959-968 (Oct 1995), 3A352
Optimal power-limited rendezvous with thrust saturation, J Guidance Control Dyn 18(5) 1145-1150 (Oct 1995), 3A353
Optimal station-change maneuver for geostationary satellites using constant low thrust, J Guidance Control Dyn 18(5) 1151-1155 (Oct 1995), 3T354
Optimum guidance with a single uncertain time lag, J Guidance Control Dyn 18(5) 981-988 (Oct 1995), 3A355
Proportional navigation and weaving targets, J Guidance Control Dyn 18(5) 969-974 (Oct 1995), 3T356
Reconfigurable tracking control with saturation, J Guidance Control Dyn 18(5) 1016-1022 (Oct 1995), 3T357
Simulation investigation on dynamic pressure in glide angle control, Adv Eng Software 23(1) 1-6 (1995), 3A358
Simulation of the antiaircraft, long-range missile guidance, J Theor Appl Mech 33(4) 899-908 (1995), 3A359
Time-optimal lateral maneuvers of an aircraft, J Guidance Control Dyn 18(5) 1106-1112 (Oct 1995), 3A360
Distributed control of maneuvering vehicles for on-orbit assembly, J Guidance Control Dyn 18(5) 1204-1206 (Oct 1995), 3T366
Feedback linearization autopilot design for the advanced kinetic energy missile boost phase, J Guidance Control Dyn 18(5) 945-950 (Oct 1995), 3A369
Expert system for processing uncorrelated satellite tracks, J Guidance Control Dyn 18(5) 1139-1144 (Oct 1995), 3T387
On-line learning neural-network controllers for autopilot systems, J Guidance Control Dyn 18(5) 1008-1015 (Oct 1995), 3A390
Magnetic precession and product-of-inertia nutation damping of bias momentum satellites, J Guidance Control Dyn 18(6) 1321-1328 (Dec 1995), 4A298
Spacecraft attitude determination by Kalman filtering of global positioning system signals, J Guidance Control Dyn 18(6) 1365-1371 (Dec 1995), 4T301
Bayesian state estimation for tracking and guidance using the bootstrap filter, J Guidance Control Dyn 18(6) 1434-1443 (Dec 1995), 4T339
Barrier strategies and capture criteria in a 3D pursuit-evasion differential game, Optimal Control Appl Methods 16(5) 321-340 (Dec 1995), 4T364
Maximum-payload trajectories for a laser-propelled launch vehicle, J Guidance Control Dyn 18(6) 1259-1266 (Dec 1995), 4A365
Optimal maneuver of a flexible arm by space-time FEM, J Guidance Control Dyn 18(6) 1459-1462 (Dec 1995), 4T366
Optimal planar interception with terminal constraints, J Guidance Control Dyn 18(6) 1273-1279 (Dec 1995), 4A367
Simple guidance method for single stage to low earth orbit, J Guidance Control Dyn 18(6) 1420-1426 (Dec 1995), 4T368
Near-minimum-time maneuvers of large structures: Theory and experiments, J Guidance Control Dyn 18(6) 1380-1385 (Dec 1995), 4T375
Nonlinear control law for aerial towed target, J Guidance Control Dyn 18(6) 1232-1238 (Dec 1995), 4A376
Optimal geometric structures of force-torque sensors, Int J Robotics Res 14(6) 560-573 (Dec 1995), 4A407
Time-optimal control of reorientation of a spherically symmetric rotating solid, Mech Solids 30(2) 7-14 (1995), 5A329
Trajectory preshaping for of high-speed articulated systems, J Dyn Syst Meas Control 117(3) 304-310 (Sep 1995), 5A330
Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, J Dyn Syst Meas Control 117(3) 343-351 (Sep 1995), 5A332
Parametric motor control: A new approach to the control of point-to-point manipulator movements, J Robotic Syst 13(1) 35-40 (Jan 1996), 5A374
Robust control of robot manipulators including actuator dynamics, J Robotic Syst 13(1) 1-10 (Jan 1996), 5A375
Multivariable transfer functions for a slewing piezo-electric laminate beam, J Dyn Syst Meas Control 117(3) 352-359 (Sep 1995), 5A544
Atmospheric re-entry control for low lift-drag vehicles, J Guidance Control Dyn 19(1) 47-53 (Feb 1996), 6T223
Linear robust control of nonlinear systems: Elevation control of hovercraft via multi-sectional control, JSME Int J Ser C 38(4) 701-707 (Dec 1995), 6A295
Nonlinear control of dual-spin spacecraft during despin through precession phase lock, J Guidance Control Dyn 19(1) 60-67 (Feb 1996), 6A296
Characterization of effective masses and optical gain in strained quantum-well lasers, Acta Phys Polonica A 88(5) 949-952 (Nov 1995), 6T307
Deployment-retrieval control of a tethered subsatellite under effect of tether elasticity, J Guidance Control Dyn 19(1) 84-90 (Feb 1996), 6T308
Four-dimensional guidance of atmospheric vehicles, J Guidance Control Dyn 19(1) 113-122 (Feb 1996), 6A309
Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, J Guidance Control Dyn 19(1) 141-149 (Feb 1996), 6A310
Full envelope flight control system design using qualitative feedback theory, J Guidance Control Dyn 19(1) 23-29 (Feb 1996), 6A311
Guidance, navigation, and control from instrumentation to information management, J Guidance Control Dyn 19(1) 10-14 (Feb 1996), 6A312
Manipulations with atoms and clusters, Acta Phys Polonica A 88(5) 813-828 (Nov 1995), 6A313
Nonlinear H_{∞} optimal control for agile missiles, J Guidance Control Dyn 19(1) 157-165 (Feb 1996), 6A314
Nonlinear trajectory tracking guidance with application to a launch vehicle, J Guidance Control Dyn 19(1) 99-106 (Feb 1996), 6A315
Nonlinear transformation methods for gravity-turn descent, J Guidance Control Dyn 19(1) 247-248 (Feb 1996), 6T316
Optimal power-limited rendezvous of a spacecraft with bounded thrust and general linear equations of motion, J Optim Theory Appl 87(3) 487-515 (Dec 1995), 6T317
Optimal time re-entry of vehicles by asymptotic matching, J Guidance Control Dyn 19(1) 223-230 (Feb 1996), 6A318
Performance enhancement for a missile in the presence of saturating actuators, J Guidance Control Dyn 19(1) 38-46 (Feb 1996), 6A319
Strategic intercept midcourse guidance using modified zero effort miss steering, J Guidance Control Dyn 19(1) 107-112 (Feb 1996), 6T320
Studies on aircraft total energy flight control system: Nonlinear system integration and simulation, Chinese J Aeronaut 8(1) 36-44 (Feb 1995), 6A321
Linear quadratic flight control for ejection seats, J Guidance Control Dyn 19(1) 15-22 (Feb 1996), 6A327
F8 neurocontroller based on dynamic inversion, J Guidance Control Dyn 19(1) 150-156 (Feb 1996), 6A341
Robust motion tracking controllers for uncertain robot manipulators, J Syst Control Eng 209(14) 269-280 (1995), 6A364
Long flight-time range-optimal aircraft trajectories, J Guidance Control Dyn 19(1) 242-244 (Feb 1996), 6T1020
Optimal aircraft terrain-following flight with nonlinear engine dynamics, J Guidance Control Dyn 19(1) 240-242 (Feb 1996), 6T1021
Analysis of coupling sensitivity of unconventional responses for direct force control aircraft, Chinese J Aeronaut 8(4) 297-304 (Nov 1995), 7A389
Analytical model of helicopter air combat and mathematic inverse solution, Chinese J Aeronaut 8(4) 237-246 (Nov 1995), 7A390
Optimal planar interception with fixed end conditions: Closed-form solution, J Optim Theory Appl 88(3) 503-539 (Mar 1996), 7T391
Variable structure control of aircraft for atmospheric disturbance, Chinese J Aeronaut 8(4) 247-255 (Nov 1995), 7A392
Comparative analysis of reusable space transportation systems, J Machinery Manuf Reliab 4 1-8 (1995), 7T989
Near-optimal low-thrust lunar trajectories, J Guidance Control Dyn 19(2) 494-496 (Apr 1996), 8T236
Adaptation of centers of approximation for nonlinear tracking control, J Guidance Control Dyn 19(2) 363-369 (Apr 1996), 8T305
Analytical missile guidance laws with a time-varying transformation, J Guidance Control Dyn 19(2) 496-499 (Apr 1996), 8T306
Approximate initial Lagrange costates for continuous-thrust spacecraft, J Guidance Control Dyn 19(2) 283-288 (Apr 1996), 8T307
Dense-sparse discretization for optimization and real-time guidance, J Guidance Control Dyn 19(2) 501-503 (Apr 1996), 8T308
Designing longitudinal motion control system of surface effect vehicle with pitch and height separate control, Russian Aeronaut 38(2) 31-36 (1995), 8A309
Dynamic programming approach for burnout-to-apogee guidance of precision munitions, J Guidance Control Dyn 19(2) 340-346 (Apr 1996), 8T310
Fundamentals of designing information-control system during ensuring motion safety of surface effect vehicle, Russian Aeronaut 38(2) 44-49 (1995), 8A311
Information support for system of avoiding critical modes of surface effect vehicle motion, Russian Aeronaut 38(2) 27-30 (1995), 8A312
Linear quadratic pursuit-evasion games with terminal velocity constraints, J Guidance Control Dyn 19(2) 499-501 (Apr 1996), 8T313
Longitudinal motion control system of surface effect vehicle, Russian Aeronaut 38(2) 37-43 (1995), 8A314
Low-thrust flyby guidance and an extended optimal spacing rule, J Guidance Control Dyn 19(2) 347-354 (Apr 1996), 8T315
Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, Optimal Control Appl Methods 17(1) 45-69 (Mar 1996), 8T316
Mixed-strategy guidance in future ship defense, J Guidance Control Dyn 19(2) 334-339 (Apr 1996), 8A317
New approach to halo orbit determination and control, J Guidance Control Dyn 19(2) 266-273 (Apr 1996), 8A318
Orbital planar maneuvers using two and three-four (through infinity) impulses, J Guidance Control Dyn 19(2) 274-282 (Apr 1996), 8T319
Surface effect vehicle flight control system with properties of adaptation, Russian Aeronaut 38(2) 16-22 (1995), 8A320
System of stabilizing the height of motion of surface effect vehicle over waved sea, Russian Aeronaut 38(2) 23-26 (1995), 8A321
Surface polishing with flexible link manipulators, Eur J Mech A 15(1) 137-153 (1996), 8A364
Design and robustness analysis of gain-scheduled control system for parabolic flight, J Guidance Control Dyn 19(2) 430-437 (Apr 1996), 8A1012
Capture conditions for merging trajectory segments to model realistic aircraft descents, J Guidance Control Dyn 19(2) 453-460 (Apr 1996), 8T1015
Robust control via state feedback for a class of uncertain bilinear systems, Appl Math Mech 17(2) 181-185 (Feb 1996), 9A421
Special issue on underwater vehicle control, Model Ident Control 17(1) 5-73 (Jan 1996), 9A422
Time-energy optimal control of articulated systems with geometric path constraints, J Dyn Syst Meas Control 118(1) 139-143 (Mar 1996), 9A431
Exploration of a mobile robot based on sonar probability mapping, J Dyn Syst Meas Control 118(1) 150-157 (Mar 1996), 9A450
Guidance and Control 1996: Advances in the Astronautical Sciences, Volume 92 - Proc of Annual Rocky Mountain Guidance and Control Conf, Breckenridge, CO, February, 1996 (Univelt, San Diego, 1996) 10N15
Adaptive control for time optimal tracking systems, Int J Control 63(5) 951-964 (Mar 1996), 10A405
Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, Int J Control 63(4) 641-678 (Mar 1996), 10A434
Stability analysis on earth observing system AM-1 spacecraft earth acquisition, J Guidance Control Dyn 19(3) 512-519 (Jun 1996), 11T235
Spacecraft Euler parameter tracking of large-angle maneuvers via sliding mode control, J Guidance Control Dyn 19(3) 702-703 (Jun 1996), 11T302
Adaptive orbit determination for interplanetary spacecraft, J Guidance Control Dyn 19(3) 693-701 (Jun 1996), 11A305
Analytical solution of 3D realistic true proportional navigation, J Guidance Control Dyn 19(3) 569-577 (Jun 1996), 11T306
Analytical solution of generalized 3D proportional navigation, J Guidance Control Dyn 19(3) 721-724 (Jun 1996), 11T307
Exponential criterion-based guidance law for acceleration constrained missile and maneuvering target, J Guidance Control Dyn 19(3) 718-721 (Jun 1996), 11T308
Inertial space optimal trajectories of aerial 3D pursuit-evasion differential game, J Guidance Control Dyn 19(3) 612-620 (Jun 1996), 11T309
Line-of-sight guidance for descent to a minor solar system body, J Guidance Control Dyn 19(3) 740-742 (Jun 1996), 11T310
Method for improving autopilot lag compensation in intercept guidance, J Guidance Control Dyn 19(3) 724-726 (Jun 1996), 11T311
Minimizing interceptor size using neural networks for terminal guidance law synthesis, J Guidance Control Dyn 19(3) 557-562 (Jun 1996), 11T312
Missile flight control using active flexspar actuators, Smart Mat Struct 5(2) 121-128 (Apr 1996), 11A313
Near-optimal highly robust guidance for aeroassisted orbital transfer, J Guidance Control Dyn 19(3) 549-556 (Jun 1996), 11A314
Parametric robustness evaluation of a H_{∞} missile autopilot, J Guidance Control Dyn 19(3) 621-627 (Jun 1996), 11A315
Parametric uncertainty reduction in robust missile autopilot design, J Guidance Control Dyn 19(3) 733-736 (Jun 1996), 11T316
Precise trajectory tracking control of elastic joint manipulator, J Guidance Control Dyn 19(3) 715-718 (Jun 1996), 11T317
Root-mean-square miss distance of proportional navigation missile against sinusoidal target, J Guidance Control Dyn 19(3) 563-568 (Jun 1996), 11T318
Stability and control of airplane at high angles of attack: Bifurcation phenomena, Mec Appl 39(6) 693-706 (Dec 1994), 11A319
Variational solutions for the heat-rate-limited aeroassisted orbital transfer problem, J Guidance Control Dyn 19(3) 686-692 (Jun 1996), 11T320
H_{∞} control of an earth observation satellite, J Guidance Control Dyn 19(3) 628-635 (Jun 1996), 11T328
Sensory selection in vehicle detection and avoidance, Robotics Autonomous Syst 17(1-2) 3-13 (Apr 1996), 11T333
Nonlinear receding-horizon state estimation by real-time optimization technique, J Guidance Control Dyn 19(4) 863-870 (Aug 1996), 12A329
Adaptive attitude control for an artificial satellite with mobile bodies, J Guidance Control Dyn 19(4) 948-953 (Aug 1996), 12A380
Attitude control for low lift-drag re-entry vehicles, J Guidance Control Dyn 19(4) 816-822 (Aug 1996), 12T381
Compact finite burn targeting and reconstruction algorithm, J Guidance Control Dyn 19(4) 801-807 (Aug 1996), 12T382
Control of wing rock motion using adaptive feedback linearization, J Guidance Control Dyn 19(4) 905-912 (Aug 1996), 12A383
Effect of common process noise on two-sensor track fusion, J Guidance Control Dyn 19(4) 829-835 (Aug 1996), 12A384
Flight envelopes for hypersonic aerorendezvous at constant altitude, J Guidance Control Dyn 19(4) 941-947 (Aug 1996), 12T385
Motion control of free-floating variable geometry truss - Part 1: Kinematics, J Guidance Control Dyn 19(4) 756-763 (Aug 1996), 12A386
Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, J Guidance Control Dyn 19(4) 764-771 (Aug 1996), 12A387
Multivariable control of the J-85 turbojet engine for full flight envelope operation, J Guidance Control Dyn 19(4) 913-920 (Aug 1996), 12A388
On-orbit thruster calibration, J Guidance Control Dyn 19(4) 934-940 (Aug 1996), 12T389
Optimized feedforward design scheme unifying regulator and command generator tracker, J Guidance Control Dyn 19(4) 899-904 (Aug 1996), 12A390
Stabilization and optimality results for the attitude control problem, J Guidance Control Dyn 19(4) 772-779 (Aug 1996), 12A391
Transfer orbits in the earth-moon system using a regularized model, J Guidance Control Dyn 19(4) 929-933 (Aug 1996), 12T392
Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, J Dyn Syst Meas Control 118(2) 300-308 (Jun 1996), 12A456
Periodic optimal flight, J Guidance Control Dyn 19(4) 745-755 (Aug 1996), 12A1170

204C. Control of structures and vehicles

Dynamic modeling of a trailing wire towed by an orbiting aircraft, J Guidance Control Dyn 18(4) 875-881 (Aug 1995), 1A142
Continuous sliding mode control of flow-induced vibrations, Shock Vib 2(5) 365-372 (1995), 1A250
Decentralized sliding mode control in three-axis inertial platforms, J Guidance Control Dyn 18(4) 773-781 (Aug 1995), 1A377
Design and examination of H_{∞} robust controller for ground effect problem, J Guidance Control Dyn 18(4) 740-747 (Aug 1995), 1A379
Closed loop momentum transfer maneuvers using multiwheels, J Guidance Control Dyn 18(4) 867-874 (Aug 1995), 1T388
Experimental application of an explicit optimal linear quadratic Gaussian controller, J Guidance Control Dyn 18(4) 674-677 (Aug 1995), 1A393
Nonlinear decoupling control of aircraft motion, J Guidance Control Dyn 18(4) 812-816 (Aug 1995), 1A396
Vibrations of the low power atmospheric compensation experiment satellite, J Guidance Control Dyn 18(4) 650-656 (Aug 1995), 1T405
Additional 4WS and driver interaction, Vehicle Syst Dyn 24(8) 639-658 (Sep 1995), 1A406
Application of Learning Automata to controller design in slow-active automobile suspensions, Vehicle Syst Dyn 24(8) 597-616 (Sep 1995), 1A407
Directional stability of truck-dolly-trailer system, Vehicle Syst Dyn 24(8) 617-637 (Sep 1995), 1A408
Feasibility of active and passive pulse control for flexible structures, J Vib and Control 1(3) 273-289 (Aug 1995), 1A409
Maximum power absorption with active struts, J Guidance Control Dyn 18(4) 907-908 (Aug 1995), 1T410
Methodology for integration of digital control loaders in aircraft simulators, J Guidance Control Dyn 18(4) 923-925 (Aug 1995), 1T411
Near-optimal 3D rotational maneuvers of spacecraft using manipulator arms, J Guidance Control Dyn 18(4) 932-934 (Aug 1995), 1T412
Real-time shared control system for space telerobotics, J Intelligent & Robotic Syst 13(3) 247-262 (1995), 1A413

Robust control of a slewing beam system, J Vib and Control 1(3) 251-271 (Aug 1995), 1A414
Vibration reduction in rotorcraft using active control: A comparison of various approaches, J Guidance Control Dyn 18(4) 664-673 (Aug 1995), 1A415
Smart robot's geometric model inverting system, J Robotic Syst 12(9) 629-633 (Sep 1995), 1A425
Control of a flexible space robot executing a docking manuever, J Guidance Control Dyn 18(4) 756-766 (Aug 1995), 1A426
Optimal placement of damped struts using simulated annealing, J Spacecraft Rockets 32(4) 653-661 (Aug 1995), 1A876
Application of H_∞ control and LQC with frequency-dependent weight syntheses to a multivariable active flutter suppression system, Proc Inst Mech Eng J Aerospace Eng 209(G3) 233-243 (1995), 2A195
Nonstationary random response of a vehicle with a varying structure, Int J Vehicle Des 16(6) 531-541 (1995), 2A284
Multi-variable control of an integrated propulsion and airframe system, J Syst Control Eng 209(I3) 179-190 (1995), 2A285
Power flow in 2D and 3D frame structures, J Sound Vib 185(4) 685-702 (Aug 1995), 2A736
Statistical norms for off-road wheeled vehicle parameters, Heavy Vehicle Syst 2(2) 124-142 (1995), 3A162
Modeling issues related to retrieval of flexible tethered satellite systems, J Guidance Control Dyn 18(5) 1169-1176 (Oct 1995), 3A164
Fluid force activated spacecraft dynamics driven by gravity gradient and jitter accelerations, J Guidance Control Dyn 18(5) 1190-1196 (Oct 1995), 3T234
Substructuro-based controller design method for flexible structures, J Guidance Control Dyn 18(5) 1053-1061 (Oct 1995), 3A340
Near-minimum-time eigenaxis rotation maneuvers using reaction wheels, J Guidance Control Dyn 18(5) 1184-1189 (Oct 1995), 3A351
Time-optimal lateral maneuvers of an aircraft, J Guidance Control Dyn 18(5) 1106-1112 (Oct 1995), 3A360
Active magnetic antiwhirl control of a rigid rotor supported on hydrodynamic bearings, Machine Dyn Prob 10 21-36 (1995), 3A361
Aircraft antilock brake system with neural networks and fuzzy logic, J Guidance Control Dyn 18(5) 1113-1118 (Oct 1995), 3A362
Design of optimal four-wheel steering system, Vehicle Syst Dyn 24(9) 661-682 (Oct 1995), 3A363
Design of the PI controller in the state space for controlling rotation speed of a steam turbine, Machine Dyn Prob 10 65-76 (1995), 3A364
Dissipative controllers for nonlinear multibody flexible space structures, J Guidance Control Dyn 18(5) 1044-1052 (Oct 1995), 3A365
Distributed control of maneuvering vehicles for on-orbit assembly, J Guidance Control Dyn 18(5) 1204-1206 (Oct 1995), 3T366
Disturbance rejection for an aircraft flying in atmospheric disturbances, Dyn Control 5(4) 389-400 (Oct 1995), 3A367
Feedback controller for a flexible structure using piezoceramic actuators, Dyn Control 5(4) 401-419 (Oct 1995), 3A368
Feedback linearization autopilot design for the advanced kinetic energy missile boost phase, J Guidance Control Dyn 18(5) 945-950 (Oct 1995), 3A369
Flexible vehicle control using quantitative feedback theory, J Guidance Control Dyn 18(5) 1062-1067 (Oct 1995), 3A370
Force control of a semi-active damper, Vehicle Syst Dyn 24(9) 695-723 (Oct 1995), 3A371
High resolution order tracking at extreme slew rates using Kalman tracking filters, Shock Vib 2(6) 507-515 (1995), 3A372
Influence of articulation damping on the yaw and lateral dynamic response of the vehicle, Heavy Vehicle Syst 2(2) 105-123 (1995), 3A373
Kinematic waves in large controlled structures, Mech Solids 30(1) 167-178 (1995), 3A374
Moment limiter for mobile cranes, Heavy Vehicle Syst 2(2) 174-183 (1995), 3A375
Optimal control of a spacecraft with a solar sail (Russian), Prikl Mekh (Appl Mech) 30(9) 82-87 (1994), 3A376
Power requirement of active vibration control systems, Vehicle Syst Dyn 24(9) 683-691 (Oct 1995), 3A377
Strategies for the active control of flexural vibration on a beam, J Sound Vib 186(4) 657-688 (Oct 1995), 3A378
Torsional vibration control by active piezoelectric system, J Theor Appl Mech 33(4) 809-823 (1995), 3A379
Transient chassis cycles for heavy duty trucks and tractors, Heavy Vehicle Syst 2(2) 143-159 (1995), 3T380
Unified lateral approximations for longitudinal dynamics of flexible flight vehicles, J Guidance Control Dyn 18(5) 1074-1083 (Oct 1995), 3T381
On-line learning neural-network controllers for autopilot systems, J Guidance Control Dyn 18(5) 1008-1015 (Oct 1995), 3A390
Experimental study of distributed systems with a large number of impact pairs, J Machinery Manuf Reliab 1 84-88 (1995), 3T766
Positive real zeros in flexible beams, Shock Vib 2(6) 429-435 (1995), 3A769
Modeling and fuzzy logic control of an active reaction compensating platform system, Shock Vib 2(6) 493-506 (1995), 3A819
Advanced Automotive Technologies, DSC-Vol 56/DE-Vol 86 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N8
Motion of a rigid body with an attached spring-mass damper, J Guidance Control Dyn 18(6) 1404-1409 (Dec 1995), 4A114
Influence of pinned joints on damping and dynamic behavior of a truss, J Guidance Control Dyn 18(6) 1398-1403 (Dec 1995), 4A190
Smooth sliding-mode control for spacecraft attitude tracking maneuvers, J Guidance Control Dyn 18(6) 1345-1349 (Dec 1995), 4A300
Suboptimal command generation for control moment gyroscopes and feedback control of spacecraft, J Guidance Control Dyn 18(6) 1350-1354 (Dec 1995), 4A302
Identification of a nonlinear aerodynamic model of the F-14 aircraft, J Guidance Control Dyn 18(6) 1292-1297 (Dec 1995), 4T336
Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, J Optim Theory Appl 87(2) 287-300 (Nov 1995), 4T352
Pole placement in optimal regulator by continuous pole-shifting, J Guidance Control Dyn 18(6) 1253-1258 (Dec 1995), 4A356
Optimal maneuver of a flexible arm by space-time FEM, J Guidance Control Dyn 18(6) 1459-1462 (Dec 1995), 4T366
Optimal planar interception with terminal constraints, J Guidance Control Dyn 18(6) 1273-1279 (Dec 1995), 4A367
Aerocapture with a flexible tether, J Guidance Control Dyn 18(6) 1305-1312 (Dec 1995), 4T369
Comparative stability analysis and performance of magnetic controllers for bias momentum satellites, J Guidance Control Dyn 18(6) 1313-1320 (Dec 1995), 4A370
Design of an active unilateral brake control system for five-axle tractor-semitrailer based on sensitivity analysis, Vehicle Syst Dyn 24(10) 725-758 (Dec 1995), 4A371
Experiment of active control of a cable using a piezoelectric active tendon collocated with a force sensor, European J Mech Eng 40(3) 139-145 (1995), 4A372
Feedback control logic for spacecraft eigenaxis rotations under slew rate and control constraints, J Guidance Control Dyn 18(6) 1372-1379 (Dec 1995), 4A373
Hybrid control of seismic-excited bridge structures, Earthquake Eng Struct Dyn 24(11) 1437-1451 (Nov 1995), 4A374
Near-minimum-time maneuvers of large structures: Theory and experiments, J Guidance Control Dyn 18(6) 1380-1385 (Dec 1995), 4T375
Nonlinear control law for aerial towed target, J Guidance Control Dyn 18(6) 1232-1238 (Dec 1995), 4A376
Real-time vehicle trajectory supervision on the highway, Int J Robotics Res 14(6) 531-542 (Dec 1995), 4A377
Resonance control of aircraft instabilities by smooth and continuous feedback, J Guidance Control Dyn 18(6) 1298-1304 (Dec 1995), 4T378
Robust closed-loop control design for spacecraft slew maneuver using thrusters, J Guidance Control Dyn 18(6) 1336-1344 (Dec 1995), 4A379
Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), J Vib Eng 8(3) 204-211 (Sep 1995), 4A380
Semi-active suspension with preview using a frequency-shaped performance index, Vehicle Syst Dyn 24(10) 759-780 (Dec 1995), 4A381
Mechanical analysis of high precision manipulator, Model Ident Control 16(4) 233-241 (Oct 1995), 4A400
Variable stiffness control of a single-link flexible robotic arm, J Sound Vib 187(1) 1-21 (Oct 1995), 4A405
Experiments with model-simplified computed-torque manipulator controllers for free-flying robots, J Guidance Control Dyn 18(6) 1386-1391 (Dec 1995), 4A406
Active control of wave-type vibration energy for improved structural reliability, Appl Acoust 46(2) 175-195 (1995), 4A797
Active vibration control of a beam subjected to AM or FM disturbances, Noise Control Eng J 43(5) 159-171 (Oct 1995), 4A798
Study on smart composite beam: Optimal vibration control of 1st flexural mode by use of piezoelectric ceramics (Japanese), J Soc Mat Sci Japan 44(505) 1255-1260 (Oct 1995), 4A800
Precise tilting control of rotating table: Mechanical structure and preformance (Japanese), J Japan Soc Precision Eng 61(10) 1415-1419 (Oct 1995), 4A864
Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, J Eng Gas Turbines Power 117(4) 767-776 (Oct 1995), 5A157
Trajectory preshaping for of high-speed articulated systems, J Dyn Syst Meas Control 117(3) 304-310 (Sep 1995), 5A330
Evaluation of several controller synthesis methodologies using a rotating flexible beam as a test bed, J Dyn Syst Meas Control 117(3) 360-373 (Sep 1995), 5A331
Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, J Dyn Syst Meas Control 117(3) 343-351 (Sep 1995), 5A332
Study on a surface-motor driven precise positioning system, J Dyn Syst Meas Control 117(3) 311-319 (Sep 1995), 5A333
Time-optimal control problems for the swing and the ski, Int J Control 62(6) 1409-1429 (Dec 1995), 5A334
Vibration control experiment of a slewing flexible beam, J Dyn Syst Meas Control 117(3) 432-435 (Sep 1995), 5A335
CMAC neural network control for high precision motion control in the presence of large friction, J Dyn Syst Meas Control 117(3) 415-420 (Sep 1995), 5A340
Inverse force and motion control of constrained elastic robots, J Dyn Syst Meas Control 117(3) 374-383 (Sep 1995), 5A372
Multivariable transfer functions for a slewing piezoelectric laminate beam, J Dyn Syst Meas Control 117(3) 352-359 (Sep 1995), 5A544
Stability of magnetic bearing-rotor systems having a central support backup bearing, J Dyn Syst Meas Control 117(3) 277-282 (Sep 1995), 5A545
Parametric study of active mass dampers for wind excited tall buildings, Eng Struct 18(1) 64-76 (Jan 1996), 5A698
Static shape control of space trusses with partial measurements, J Spacecraft Rockets 32(5) 856-865 (Oct 1995), 5A756
Modeling and control of HSFDs for active control of rotor-bearing systems, J Eng Gas Turbines Power 117(4) 757-766 (Oct 1995), 5A1285
Alternative control logic for type-II variable-stiffness system, AIAA J 34(1) 207-209 (Jan 1996), 6T118
State-feedback control for passenger ride dynamics, Trans Can Soc Mech Eng 19(4) 495-507 (1995), 6A163
Vibration control of a ropeway carrier by passive dynamic vibration absorbers, JSME Int J Ser C 38(4) 657-662 (Dec 1995), 6A173
Application of frequency domain adaptive infinite impulse response filtering for identification of flexible structure dynamics, Mech Syst Signal Processing 10(1) 65-91 (Jan 1996), 6A269
Synthesis of algorithms for controlling the motion of mechanical systems by the method of suppression of kinetic energy, J Machinery Manuf Reliab 3 78-87 (1995), 6T283
Optimal feedback control of a nonlinear system: Wing rock examples, J Guidance Control Dyn 19(1) 166-171 (Feb 1996), 6A289
Nonlinear control of dual-spin spacecraft during despin through precission phase lock, J Guidance Control Dyn 19(1) 60-67 (Feb 1996), 6A296
Deployment-retrieval control of a tethered subsatellite under effect of tether elasticity, J Guidance Control Dyn 19(1) 84-90 (Feb 1996), 6T308
Four-dimensional guidance of atmospheric vehicles, J Guidance Control Dyn 19(1) 113-122 (Feb 1996), 6A309
Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, J Guidance Control Dyn 19(1) 141-149 (Feb 1996), 6A310
Full envelope flight control system design using qualitative feedback theory, J Guidance Control Dyn 19(1) 23-29 (Feb 1996), 6A311
Nonlinear H_∞ optimal control for agile missiles, J Guidance Control Dyn 19(1) 157-165 (Feb 1996), 6A314
Performance enhancement for a missile in the presence of saturating actuators, J Guidance Control Dyn 19(1) 38-46 (Feb 1996), 6A319
Actuator with built-in viscous damping for isolation and structural control, AIAA J 34(1) 129-135 (Jan 1996), 6A322
Adaptive control of vehicle system (Chinese), J Vib Eng 8(4) 369-376 (Dec 1995), 6A323
Application and implementation of LQ design method for the velocity control of hydrostatic transmissions, J Syst Control Eng 209(I4) 255-268 (1995), 6A324
Control of a flexible beam using back electromotive force of motor, J Guidance Control Dyn 19(1) 135-140 (Feb 1996), 6A325
Design of longitudinal control system for brushless motor electric vehicle using VSTC control theory, JSME Int J Ser C 38(4) 756-764 (Dec 1995), 6A326
Linear quadratic flight control for ejection seats, J Guidance Control Dyn 19(1) 15-22 (Feb 1996), 6A327
Minimum-time control characteristics of flexible structures, J Guidance Control Dyn 19(1) 123-129 (Feb 1996), 6A328
Novel approach to the estimation of the limiting potential of an active vehicle suspension, J Machinery Manuf Reliab 3 13-19 (1995), 6A329
Robustness of adaptive unbalance control of rotors with magnetic bearings, J Vib and Control 2(1) 33-52 (Feb 1996), 6A330
Stable observer-based trajectory controller for asymptotic model matching of a rigid robot, J Optim Theory Appl 87(3) 517-538 (Dec 1995), 6T331
Time optimal attitude control of asymmetric rigid spacecraft, J Vib and Control 2(1) 17-32 (Feb 1996), 6A332
F8 neurocontroller based on dynamic inversion, J Guidance Control Dyn 19(1) 150-156 (Feb 1996), 6A341
Control of nonlinear vibrations of foundations built in sandy soil, J Vib and Control 2(1) 53-68 (Feb 1996), 6A727
Simple ATMD control methodology for tall buildings subject to wind loads, J Struct Eng 122(1) 83-91 (Jan 1996), 6A729
Dynamic characteristics of on road and off road 4WD vehicles, European J Mech Eng 40(4) 197-202 (1995), 6A776
Experimental verification of H_∞ and sliding mode control for seismically excited buildings, J Struct Eng 122(1) 69-75 (Jan 1996), 6A1281
Nonlinear oscillations and chaotic motions in a road vehicle system with driver steering control, Nonlinear Dyn 9(3) 281-304 (Mar 1996), 7A110
Optimal roll control of a single-unit lorry, Proc Inst Mech Eng D 210(D1) 45-55 (1996), 7A198
Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, Vehicle Syst Dyn 25(1) 31-49 (Jan 1996), 7A199
Analytical model of helicopter air combat and mathematic inverse solution, Chinese J Aeronaut 8(4) 237-246 (Nov 1995), 7A390
Variable structure control of aircraft for atmospheric disturbance, Chinese J Aeronaut 8(4) 247-255 (Nov 1995), 7A392
Adaptive passive vibration control, J Sound Vib 189(5) 565-585 (Feb 1996), 7A393
Adaptive suspension of vehicles using piezoelectric sensors, J Intelligent Mat Syst Struct 6(6) 744-756 (Nov 1995), 7A394
Application of elementary neural networks and preview sensors for representing driver steering control behavior, Vehicle Syst Dyn 25(1) 3-30 (Jan 1996), 7A395
Control over chain mechanical systems, J Machinery Manuf Reliab 4 77-87 (1995), 7T396
Digitally controlled invariant active vibration-isolation system for microgravity protection, J Machinery Manuf Reliab 4 69-76 (1995), 7A397
Directional stability of vehicle trailer systems, Heavy Vehicle Syst 2(3-4) 285-307 (1995), 7A398
Dynamic behavior of a mobile robot vehicle with a two castor and two driving wheel configuration, Vehicle Syst Dyn 25(2) 89-112 (Feb 1996), 7A399
Dynamic modeling and vibration suppression of a slewing structure utilizing piezoelectric sensors and actuators, J Sound Vib 189(1) 13-31 (Jan 1996), 7A400
Feedback control of a nonholonomic underwater vehicle with a constant desired configuration, Int J Robotics Res 15(1) 24-35 (Feb 1996), 7A401
Moving-mass roll control system for fixed-trim re-entry vehicle, J Spacecraft Rockets 33(1) 54-60 (Feb 1996), 7A402
Operating efficiency of heavy vehicles, Heavy Vehicle Syst 2(3-4) 256-269 (1995), 7T403
Optimal control of vehicle random vibration with constrained suspension deflection, J Sound Vib 189(5) 547-564 (Feb 1996), 7A404
Optimal performance index for an off-road vehicle with passive and active suspension systems, Heavy Vehicle Syst 2(3-4) 225-237 (1995), 7A405
Robotic analyses and simulation of automatic control of excavator finish trenching, Heavy Vehicle Syst 2(3-4) 238-255 (1995), 7A406
Software servo course (attitude) systems, Chinese J Aeronaut 8(4) 256-262 (Nov 1995), 7A407
Stability analysis of the human controlled vehicle moving along a curved path, Vehicle Syst Dyn 25(1) 51-69 (Jan 1996), 7A408
Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, Heavy Vehicle Syst 2(3-4) 270-284 (1995), 7A409
Two dof model for jerk optimal vehicle suspensions, Vehicle Syst Dyn 25(2) 113-126 (Feb 1996), 7A410
Free-floating closed-chain planar robots: Kinematics and path planning, Nonlinear Dyn 9(1-2) 1-19 (Feb 1996), 7A433
Control of constrained manipulators with flexible joints, Dyn Control 6(1) 33-48 (Jan 1996), 7A440
Control of flexible manipulators via singular perturbations and distributed vibration damping, Dyn Control 6(1) 5-32 (Jan 1996), 7A441
Learning control for a class of nonlinear differential-algebraic systems with application to constrained robots, J Robotic Syst 13(3) 141-151 (Mar 1996), 7A445

Control of sliding-isolated buildings using sliding-mode control, J Struct Eng 122(2) 179-186 (Feb 1996), 7A911
Controlled semiactive hydraulic vibration absorber for bridges, J Struct Eng 122(2) 187-192 (Feb 1996), 7A912
Introduction to the dual frequency fixed delayed resonator, J Sound Vib 189(3) 355-367 (Jan 1996), 7A914
Moving away from collocated control, J Sound Vib 190(1) 129-136 (Feb 1996), 7A916
Neural network-based active vibration absorber with state feedback control, J Sound Vib 190(1) 121-128 (Feb 1996), 7A917
Investigation of the loads on truck cabin aerodynamic devices, Heavy Vehicle Syst 2(3-4) 208-224 (1995), 7A976
Wide base radial truck tires: Properties and performance, Heavy Vehicle Syst 2(3-4) 187-207 (1995), 7A980
Experimental verification of bounded-force control method, Earthquake Eng Struct Dyn 25(2) 179-193 (Feb 1996), 7A1378
Dynamics and stability of a freely processing spacecraft containing a nutation damper, J Guidance Control Dyn 19(2) 297-304 (Apr 1996), 8A235
Adaptive stabilization and tracking control of electrically driven manipulators, J Robotic Syst 13(4) 203-217 (Apr 1996), 8A322
Advanced helicopter flight control using two-dof H^{∞} optimization, J Guidance Control Dyn 19(2) 461-468 (Apr 1996), 8A323
Application of smart structures technology to rotorcraft systems, Smart Mat Struct 5(1) 1-98 (Feb 1996), 8T324
Design considerations for a blind spot detector, Int J Vehicle Des 17(2) 198-207 (1996), 8A325
Extra-insensitive input shapers for controlling flexible spacecraft, J Guidance Control Dyn 19(2) 385-391 (Apr 1996), 8A326
Feedforward neuro-controlled active suspension using frequency and time-mixed shape performance index - Part 1: Control logic and performance, Int J Vehicle Des 17(2) 163-181 (1996), 8T327
Force control in electrohydraulic active suspensions, Vehicle Syst Dyn 25(3) 185-202 (Mar 1996), 8A328
Integrated aircraft-controller design using linear matrix inequalities, J Guidance Control Dyn 19(2) 445-452 (Apr 1996), 8T329
Model for determining rider induced energy losses in bicycle suspension systems, Vehicle Syst Dyn 25(3) 223-246 (Mar 1996), 8A330
Passive vibration control via unusual geometries: Experiments on model aerospace structures, J Sound Vib 190(4) 713-719 (Mar 1996), 8A331
Performance potential and power consumption of slow-active suspension systems with preview, Vehicle Syst Dyn 25(3) 169-183 (Mar 1996), 8A332
Sensor-based robot transition control strategy, Int J Robotics Res 15(2) 128-136 (Apr 1996), 8A333
Structural control of a steel jacket platform, Struct Eng and Mech 4(2) 125-138 (Mar 1996), 8A334
Vehicle handling design process using DOE, Int J Vehicle Des 17(1) 40-54 (1996), 8A335
Neural networks representation of a vehicle model: "Neuro-Vehicle", Int J Vehicle Des 17(1) 55-75 (1996), 8A343
Tracking the gradient of artificial potential fields: Sliding mode control for mobile robots, Int J Control 63(3) 417-432 (Feb 1996), 8A355
Optimal design of controlled structures, Struct Optim 11(1-2) 19-28 (Feb 1996), 8A720
Nonlinear control strategies for limiting dynamic response extremes, J Eng Mech 122(3) 218-229 (Mar 1996), 8A730
Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, Struct Eng and Mech 4(2) 111-124 (Mar 1996), 8A731
Dynamic characteristics of structures with multiple tuned mass dampers, Struct Eng and Mech 3(5) 497-509 (Sep 1995), 8A758
Global stability of a shielded dual-spin satellite, Proc Inst Mech Eng J Aerospace Eng 210(G1) 53-63 (1996), 8A779
Optimization of characteristics of elasto-damping elements from aspect of oscillatory comfort and vehicle handling, Int J Vehicle Des 17(1) 76-91 (1996), 8A834
Conception and choice of project parameters of transport wing-in-ground effect craft, Russian Aeronaut 38(2) 4-5 (1995), 8A1007
Inverse and optimal control for precision aerobatic maneuvers, J Guidance Control Dyn 19(2) 483-488 (Apr 1996), 8A1013
Effect of actuator nonlinearities on aeroservoelasticity, J Guidance Control Dyn 19(2) 309-315 (Apr 1996), 8A1016
Nonlinear inverse dynamics control of aircraft using spoilers, J Guidance Control Dyn 19(2) 475-482 (Apr 1996), 8A1017
Stability augmentation design of a large flexible transport using nonlinear parameter optimization, J Guidance Control Dyn 19(2) 469-474 (Apr 1996), 8A1018
Stability of dynamic inversion control laws applied to nonlinear aircraft pitch-axis models, Int J Control 63(1) 1-25 (Jan 1996), 8A1019
Vibration control of an axially moving string by boundary control, J Dyn Syst Meas Control 118(1) 66-74 (Mar 1996), 9A193
Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, J Dyn Syst Meas Control 118(1) 58-65 (Mar 1996), 9A423
Fuzzy logic traction controllers and their effect on longitudinal vehicle platoon systems, Vehicle Syst Dyn 25(4) 277-303 (Apr 1996), 9A424
Hybrid structural control approach for narrow-band and impulsive disturbance rejection, Noise Control Eng J 44(1) 11-21 (Feb 1996), 9A425
LQR for state-bounded structural control, J Dyn Syst Meas Control 118(1) 113-119 (Mar 1996), 9A426
Modeling and control of backlash in the drive mechanism of a radially rotating compliant beam, J Dyn Syst Meas Control 118(1) 158-161 (Mar 1996), 9A427
New control approach for platoon operations during vehicle exit-entry, Vehicle Syst Dyn 25(4) 305-319 (Apr 1996), 9A428
Optimal preview semiactive suspension, J Dyn Syst Meas Control 118(1) 99-105 (Mar 1996), 9A429
Speed tracking and vehicle follower control design for heavy-duty vehicles, Vehicle Syst Dyn 25(4) 251-276 (Apr 1996), 9A430
Time-energy optimal control of articulated systems with geometric path constraints, J Dyn Syst Meas Control 118(1) 139-143 (Mar 1996), 9A431
Vehicle cornering characteristics in acceleration and braking through attitude control of front and rear tires, JSME Int J Ser C 39(1) 58-66 (Mar 1996), 9A432
Vibrational and acoustic power flow of an actively controlled thin plate, Noise Control Eng J 44(1) 23-33 (Feb 1996), 9A433
Robust throttle control of automotive engines: Theory and experiment, J Dyn Syst Meas Control 118(1) 92-98 (Mar 1996), 9A436
Optimal control of an n-legged robot, J Syst Control Eng 210(I1) 51-63 (1996), 9A451
Adaptive control of an industrial robot retrofitted with an open-architecture controller, J Dyn Syst Meas Control 118(1) 143-150 (Mar 1996), 9A452
Adaptive control of flexible link manipulators using a pseudolink dynamic model, Dyn Control 6(2) 179-198 (Apr 1996), 9A458
Adaptive output regulation of a flexible arm, J Dyn Syst Meas Control 118(1) 167-172 (Mar 1996), 9A459
Neural network design with genetic learning for control of a single link flexible manipulator, J Intelligent & Robotic Syst 15(2) 135-151 (Feb 1996), 9A462
Position-force control of robot interacting with dynamic environment in Cartesian space, J Dyn Syst Meas Control 118(1) 187-192 (Mar 1996), 9A463
Design spectra for actively controlled structures based on convex models, Eng Struct 18(5) 341-350 (May 1996), 9A896
Control over technological machines based on closed mechanisms of relative manipulation, J Machinery Manuf Reliab 5 82-88 (1995), 9A1007
Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, Nonlinear Dyn 9(4) 349-368 (Apr 1996), 9A1211
Special issue on Ship Control, Model Ident Control 17(2) 75-165 (Apr 1996), 9T1212
Control strategies for semi-active lorry suspensions, Proc Inst Mech Eng D 210(D2) 161-178 (1996), 10A213
Truck suspension design to minimize road damage, Proc Inst Mech Eng D 210(D2) 95-107 (1996), 10A216
Exploration of substitution of repeated mode subspaces for closely spaced mode subspaces, Acta Mech Sinica 12(1) 65-72 (1996), 10A388
Adaptive control for time optimal tracking systems, Int J Control 63(5) 951-964 (Mar 1996), 10A405
Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, Int J Control 63(4) 641-678 (Mar 1996), 10A434
Control over the motion of two-mass systems, J Machinery Manuf Reliab 6 61-68 (1995), 10A435
Evaluation of simulation motion fidelity criteria in the vertical and directional axes, J Am Helicopter Soc 41(2) 44-57 (Apr 1996), 10A436
Fuselage state feedback for aeromechanical stability augmentation of a bearingless main rotor, J Am Helicopter Soc 41(2) 85-93 (Apr 1996), 10A437
Investigation of primary flight control failure in a piloted helicopter, J Am Helicopter Soc 41(2) 37-43 (Apr 1996), 10A438
Optimal control of breaking moment for a wheel and tire, Chinese J Aeronaut 9(1) 48-54 (Feb 1996), 10A439
Optimum trafficability control system of a two-axle, two-wheel road roller during driving and braking action (Japanese), Proc JSCE 534(VI-30) 201-212 (Mar 1996), 10A440
Realization of optimal results in adaptive active vibration control (Chinese), J Vib Eng 9(1) 16-23 (Mar 1996), 10A441
Regularity and exact controllability for a beam with piezoelectric actuator, SIAM J Control Optim 34(3) 922-930 (May 1996), 10T442
Specific features of transformer equipment, J Machinery Manuf Reliab 6 81-86 (1995), 10A443
Optimal discrete-time structural control using direct output feedback, Eng Struct 18(6) 472-480 (Jun 1996), 10A885
Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, Int J Vehicle Des 17(3) 318-332 (1996), 11A145
Model reduction procedure for the dynamic analysis of rail vehicles subjected to linear creep forces, Vehicle Syst Dyn 25(5) 349-367 (May 1996), 11A146
Time-averaged active controller for turbofan engine fan noise reduction, J Aircraft 33(3) 524-531 (Jun 1996), 11A259
Mixed H_2/H_{∞} optimal control for an elastic aircraft, J Guidance Control Dyn 19(3) 650-655 (Jun 1996), 11A284
Linear quadratic optimal model-following control of a helicopter in hover, Optimal Control Appl Methods 17(2) 123-140 (Jun 1996), 11A290
Method for improving autopilot lag compensation in intercept guidance, J Guidance Control Dyn 19(3) 724-726 (Jun 1996), 11T311
Parametric robustness evaluation of a H_{∞} missile autopilot, J Guidance Control Dyn 19(3) 621-627 (Jun 1996), 11A315
Parametric uncertainty reduction in robust missile autopilot design, J Guidance Control Dyn 19(3) 733-736 (Jun 1996), 11T316
Precise trajectory tracking control of elastic joint manipulator, J Guidance Control Dyn 19(3) 715-718 (Jun 1996), 11T317
Control of Tethered Satellite Systems using thruster and offset strategies, Int J Control 64(2) 175-193 (May 1996), 11A321
Design of a cascade controller for a flexible spray boom, Mech Syst Signal Processing 10(2) 197-210 (Mar 1996), 11A322
Design of an autoland controller for an F-14 aircraft using H_{∞} synthesis, J Guidance Control Dyn 19(3) 656-663 (Jun 1996), 11A323
Development of anti-lock braking traction and control systems of the Advanced Technology Demonstrator II using DADS simulation code, Int J Vehicle Des 17(3) 295-317 (1996), 11A324
Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, J Guidance Control Dyn 19(3) 671-679 (Jun 1996), 11A325
Flexible-body dynamics modeling of a vehicle moving on the rails of a structure, J Guidance Control Dyn 19(3) 540-548 (Jun 1996), 11A326
Hydro-pneumatic slow-active suspension with preview control, Vehicle Syst Dyn 25(5) 369-386 (May 1996), 11A327
H_{∞} control of an earth observation satellite, J Guidance Control Dyn 19(3) 628-635 (Jun 1996), 11T328
Optimal control of a rigid body with dissimilar actuators, J Guidance Control Dyn 19(3) 738-740 (Jun 1996), 11T329
Optimal sensor placement for modal identification using system-realization methods, J Guidance Control Dyn 19(3) 729-731 (Jun 1996), 11T330
Optimal vibration control with modal positive position feedback, Optimal Control Appl Methods 17(2) 141-149 (Jun 1996), 11A331
Passivity motivated controller design for flexible structures, J Guidance Control Dyn 19(3) 726-729 (Jun 1996), 11T332
Sensory selection in vehicle detection and avoidance, Robotics Autonomous Syst 17(1-2) 3-13 (Apr 1996), 11T333
Synchronization of twin-gyro precession under cross-coupled adaptive feedforward control, J Guidance Control Dyn 19(3) 534-539 (Jun 1996), 11A334
Theory of aeroinertial rotation and spin of airplanes, Russian Aeronaut 38(3) 12-18 (1995), 11A335
Trajectory tracking control for navigation of the inverse pendulum type self-contained mobile robot, Robotics Autonomous Syst 17(1-2) 65-80 (Apr 1996), 11A336
Twenty first century transportation system solutions: A new type of small, relatively tall and narrow active tilting commuter vehicle, Vehicle Syst Dyn 25(5) 321-347 (May 1996), 11A337
Wave approach for control of orientation and vibration of a flexible structure, J Guidance Control Dyn 19(3) 578-583 (Jun 1996), 11A338
Designing a behavior of a mobile robot equipped with a manipulator to open and pass through a door, Robotics Autonomous Syst 17(1-2) 53-64 (Apr 1996), 11T371
Finding pedestrians by estimating temporal-frequency and spatial-period of the moving objects, Robotics Autonomous Syst 17(1-2) 25-34 (Apr 1996), 11T373
Selective refinement of 3D scene description by attentive observation for mobile robot, Robotics Autonomous Syst 17(1-2) 15-23 (Apr 1996), 11T377
Dynamics of flight vehicle control surfaces with inertia coupling, Mech Syst Signal Processing 10(2) 183-195 (Mar 1996), 11A791
Lyapunov analysis of the approximate motion equations of flexible structures, Syst Control Lett 28(1) 31-41 (Jun 1996), 12A98
Axial force stabilization of transverse vibration in pinned and clamped beams, J Dyn Syst Meas Control 118(2) 379-380 (Jun 1996), 12A142
Coupling model of vertical and lateral vehicle-track interactions, Vehicle Syst Dyn 26(1) 61-79 (Jul 1996), 12A200
Wave propagation in a finite cascade of masses and springs representing a train, Vehicle Syst Dyn 26(1) 45-60 (Jul 1996), 12A202
Motion of a spacecraft with magnetic damper, J Guidance Control Dyn 19(4) 980-982 (Aug 1996), 12T269
Frequency domain structural system identification by observability range space extraction, J Dyn Syst Meas Control 118(2) 211-220 (Jun 1996), 12A326
Parametric control of conservative mechanical systems, J Dyn Syst Meas Control 118(2) 309-314 (Jun 1996), 12A378
Adaptive attitude control for an artificial satellite with mobile bodies, J Guidance Control Dyn 19(4) 948-953 (Aug 1996), 12A380
Motion control of free-floating variable geometry truss - Part 1: Kinematics, J Guidance Control Dyn 19(4) 756-763 (Aug 1996), 12A386
Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, J Guidance Control Dyn 19(4) 764-771 (Aug 1996), 12A387
Multivariable control of the J-85 turbojet engine for full flight envelope operation, J Guidance Control Dyn 19(4) 913-920 (Aug 1996), 12A388
On-orbit thruster calibration, J Guidance Control Dyn 19(4) 934-940 (Aug 1996), 12T389
Optimized feedforward design scheme unifying regulator and command generator tracker, J Guidance Control Dyn 19(4) 899-904 (Aug 1996), 12A390
Stabilization and optimality results for the attitude control problem, J Guidance Control Dyn 19(4) 772-779 (Aug 1996), 12A391
Active control of flexible structures using a minimum number of components, J Sound Vib 193(3) 713-741 (Jun 1996), 12A393
Active control of flexible structures by use of segmented piezoelectric elements, J Guidance Control Dyn 19(4) 808-815 (Aug 1996), 12A394
Active roll control of articulated vehicles, Vehicle Syst Dyn 26(1) 17-43 (Jul 1996), 12A395
Active tendon control of cable-stayed bridges, Earthquake Eng Struct Dyn 25(6) 585-597 (Jun 1996), 12A396
Adaptive control of a zero-stiffness suspension system, J Guidance Control Dyn 19(4) 794-800 (Aug 1996), 12A397
Adaptive control of feedback linearizable nonlinear systems with application to flight control, J Guidance Control Dyn 19(4) 871-877 (Aug 1996), 12A398
Adaptive-critic-based neural networks for aircraft optimal control, J Guidance Control Dyn 19(4) 893-898 (Aug 1996), 12A399
Asymptotic linear quadratic control for lightly damped structures, J Guidance Control Dyn 19(4) 969-972 (Aug 1996), 12T400
Control algorithms for active cab suspensions on agriculture tractors, Vehicle Syst Dyn 25(6) 431-461 (Jun 1996), 12A401
Derivation of zero-gravity structural control models from analysis and ground experimentation, J Guidance Control Dyn 19(4) 787-793 (Aug 1996), 12T402
Dynamics and control of electrostatic structures, J Appl Mech 63(2) 383-391 (Jun 1996), 12A403
Efficient computation of closed-loop frequency response for large-order flexible systems, J Guidance Control Dyn 19(4) 780-786 (Aug 1996), 12A404
Fuel-efficient pulse command profiles for flexible spacecraft, J Guidance Control Dyn 19(4) 954-960 (Aug 1996), 12A405
Fuzzy driver on the handling track, J Dyn Syst Meas Control 118(2) 380-386 (Jun 1996), 12A406
New vibration regulation strategy and stability analysis for a flexible gyroscopic system, J Sound Vib 193(2) 465-481 (Jun 1996), 12A407
Nonlinear autopilot design for bank-to-turn steering of a flight vehicle, J Guidance Control Dyn 19(4) 978-979 (Aug 1996), 12T408
On-line controller implementation for attentuation of synchronous and transient rotor vibration, J Dyn Syst Meas Control 118(2) 315-321 (Jun 1996), 12A409
Optimal preview control of a two dof vehicle model using stochastic optimal control theory, Vehicle Syst Dyn 25(6) 413-430 (Jun 1996), 12A410
Optimal sensor placement of large flexible space structures, J Guidance Control Dyn 19(4) 961-963 (Aug 1996), 12T411
Parametrically adaptive drives of mechanical system: Control over the angular velocity, J Machinery Manuf Reliab 1 95-103 (1996), 12T412
Railway vehicles with generic bogies capable of perfect steering, Vehicle Syst Dyn 25(6) 389-412 (Jun 1996), 12A413

Real-time optimal state feedback control for tethered subsatelite system, J Guidance Control Dyn 19(4) 972-974 (Aug 1996), 12T414
Satellite active and passive vibration control during liftoff, J Spacecraft Rockets 33(3) 428-432 (Jun 1996), 12A415
Static and dynamic instabilities of bogie railway vehicles with linkage steered wheelsets, Vehicle Syst Dyn 26(1) 1-16 (Jul 1996), 12A416
Time-delay effect and its solution for optimal output feedback control of structures, Earthquake Eng Struct Dyn 25(6) 547-559 (Jun 1996), 12A417
Feasible map algorithm for path planning, Robotics Autonomous Syst 17(3) 149-170 (May 1996), 12T437
Landmark selection strategies for path execution, Robotics Autonomous Syst 17(3) 171-185 (May 1996), 12T438
Shortest paths for a car-like robot maneuvering around obstacles, Robotics Autonomous Syst 17(3) 139-148 (May 1996), 12A440
Ties that bond: Motion planning for multiple tethered robots, Robotics Autonomous Syst 17(3) 187-215 (May 1996), 12T441
Control of flexible manipulator systems, J Syst Control Eng 210(12) 113-130 (1996), 12A452
Motion-force control of robotic manipulators, J Dyn Syst Meas Control 118(2) 386-389 (Jun 1996), 12A455
Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, J Dyn Syst Meas Control 118(2) 300-308 (Jun 1996), 12A456
New adaptive robot controller taking account of motor dynamics, J Dyn Syst Meas Control 118(2) 390-393 (Jun 1996), 12T457
Variable structure hybrid control of manipulators in unconstrained and constrained motion, J Dyn Syst Meas Control 118(2) 327-332 (Jun 1996), 12A458
Spatially filtered vibration control of cylindrical shells, Shock Vib 3(4) 269-278 (1996), 12A834
Torsional vibration control of a flexible beam using laminated PVDF actuators, J Sound Vib 193(5) 941-956 (Jun 1996), 12A835
Effectiveness of active tuned mass damper and seismic isolation on vibration control of multi-story building, J Sound Vib 193(4) 773-792 (Jun 1996), 12A1406
Linear quadratic regulator for structure under on-line predicted future seismic excitation, Earthquake Eng Struct Dyn 25(6) 631-644 (Jun 1996), 12A1408

204D. Process control

Toward a geometric theory in the time-minimal control of chemical batch reactors, SIAM J Control Optim 33(5) 1279-1311 (Sep 1995), 2T258
AIAA-ASME-ASCE-AHS-ASC 36th Structures, Structural Dynamics, and Materials Conference and AIAA-ASME Adaptive Structures Forum Proceedings, April 10-13, 1995, New Orleans LA (AIAA, MD, 1995) 3N13
Modeling, simulation, and optimization of a printer sled driving system, J Brazilian Soc Mech Sci 17(1) 89-101 (1995), 3A325
Application of neural networks in self-tuning constant force control, Int J Machine Tools Manuf 36(1) 17-31 (Jan 1996), 3A382
Application of statistical clustering to screen printing process control, J Electron Packaging 117(3) 235-240 (Sep 1995), 3A383
Feedback linearization of a heat exchanger, Syst Control Lett 26(3) 203-209 (Oct 1995), 3A384
Computational fluid dynamics simulation of bioreactors, Model Ident Control 16(4) 177-191 (Oct 1995), 4A382
Feedback control of a heat diffusion system with time-dependent spatial domain, Optimal Control Appl Methods 16(5) 305-320 (Dec 1995), 4A383
Mathematical modeling of a rotary hearth coke calciner, Model Ident Control 16(4) 193-212 (Oct 1995), 4A384
New systematic design of high-gain feedback for nonlinear systems with unmatched uncertainties, Int J Control 62(6) 1471-1489 (Dec 1995), 5A321
Analysis of induction plasma deposition dynamics for control, J Dyn Syst Meas Control 117(3) 429-431 (Sep 1995), 5A336
Process Instrumentation Applications Manual (McGraw-Hill, New York, 1996) 6R11
Detection, alarm and display chains in data-based control systems of in-flight safety, Russian Aeronaut 38(1) 28-32 (1995), 6A333
New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), J Dalian Univ Tech 35(5) 633-638 (Oct 1995), 8A286
Continuous-time formulation of nonlinear model predictive control, Int J Control 63(1) 121-146 (Jan 1996), 8A299
Optimal control of HVAC systems using DDP and NLP techniques, Optimal Control Appl Methods 17(1) 71-78 (Mar 1996), 8A336
Two dof controllers for multivariable model-matching systems: Application to a continuous stirred tank reactor, Optimal Control Appl Methods 17(1) 3-27 (Mar 1996), 8A337
Simulation studies of control of oil-refining heating furnaces (Chinese), J Dalian Univ Tech 36(1) 68-71 (Jan 1996), 8A1270
Feedback control of two-time-scale nonlinear systems, Int J Control 63(5) 965-994 (Mar 1996), 10A419
Model based statistical process control for continuous systems, J Dyn Syst Meas Control 118(2) 283-289 (Jun 1996), 12A418
Two-position thermal valve gear, J Machinery Manuf Reliab 1 13-16 (1996), 12T419
Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, J Dyn Syst Meas Control 118(2) 253-258 (Jun 1996), 12A423

204E. Power systems

Multi-variable control of an integrated propulsion and airframe system, J Syst Control Eng 209(I3) 179-190 (1995), 2A285
Switching control strategy for the power system stabilization problem, Int J Control 62(5) 1021-1036 (Nov 1995), 3A385
Feedback-controlled gas mixing system for the ram accelerator, J Propulsion Power 11(6) 1291-1298 (Dec 1995), 4A385
Application of unified predictive control for an electro-hydraulic servo system, JSME Int J Ser C 38(4) 727-734 (Dec 1995), 6A334
Decentralized control of large-scale power systems with unknown interconnections, Int J Control 63(3) 591-608 (Feb 1996), 8A276
Design of static reactive power compensator using fuzzy sliding mode control, Int J Control 63(2) 393-413 (Jan 1996), 8A338
Analysis of the effects of torque, engine geometry, and speed on choosing an engine inertia model to minimize prediction errors, J Dyn Syst Meas Control 118(1) 181-184 (Mar 1996), 9A434
Horizontal axis wind turbine control: Comparison of classical, LQG and H∞ designs, Dyn Control 6(2) 143-161 (Apr 1996), 9A435
Robust throttle control of automotive engines: Theory and experiment, J Dyn Syst Meas Control 118(1) 92-98 (Mar 1996), 9A436
Industrial Servo Control Systems: Fundamentals and Applications - Fluid Power and Control Series, Vol 13 (Marcel Dekker, New York, 1996) 10R13
Characteristic line based method to build finite-dimensional models of heat exchangers, Math Model Syst 1(3) 141-166 (Oct 1995), 11A339
Design of pulse width modulation controllers for stabilization and tracking in derived DC-to-DC power converters, Int J Control 64(2) 301-318 (May 1996), 11T340
Modeling of power plant dynamics and uncertainties for robust control synthesis, Appl Math Model 20(7) 501-512 (Jul 1996), 11A341
On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, Mech Syst Signal Processing 10(2) 135-154 (Mar 1996), 11A342
On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, Mech Syst Signal Processing 10(2) 155-169 (Mar 1996), 11A343
Parallel approach of the inverse kinematics solutions for robots using a transputer network, J Robotic Syst 13(6) 341-352 (Jun 1996), 11A344
Fundamentals of the service life design of diesel exhaust valves, J Machinery Manuf Reliab 1 45-54 (1996), 12A985

204F. Fluidic systems, pneumatics

Discrete-time system identification for electrohydraulic servo systems, J Syst Control Eng 209(I3) 165-177 (1995), 2A242
Feedback control of globally unstable flows: Impinging shear flows, J Fluids Struct 9(8) 907-923 (Nov 1995), 5A337
Enhancement of internal damping of pneumatic springs of vibration isolation systems by means of introduction of negative-stiffness elements, J Machinery Manuf Reliab 3 20-24 (1995), 6A335
Impedance characteristics of hydraulic orifices, J Syst Control Eng 209(I4) 241-253 (1995), 6A336
Self-organizing neural network approach to data-based modeling of fluid power systems dynamics using the GMDH algorithm, J Syst Control Eng 209(I4) 229-240 (1995), 6A343
Force control in electrohydraulic active suspensions, Vehicle Syst Dyn 25(3) 185-202 (Mar 1996), 8A328
Pneumatic Systems: Principles and Maintenance (McGraw-Hill, New York, 1995) 9N6
Measurement of positive displacement pump flow ripple and impedance, J Syst Control Eng 210(I1) 65-74 (1996), 9A345
Eulerian bond graphs for fluid continuum dynamics modeling, J Dyn Syst Meas Control 118(1) 48-57 (Mar 1996), 9A402
Modeling and simulation of a proportional solenoid valve, J Dyn Syst Meas Control 118(1) 120-125 (Mar 1996), 9A437
Predicting the behavior of slipper pads in swashplate-type axial piston pumps, J Dyn Syst Meas Control 118(1) 41-47 (Mar 1996), 9A1237
Pneumatic assist device for gait restoration, J Dyn Syst Meas Control 118(1) 9-14 (Mar 1996), 9A1464
Numerical investigation of fluidic micro-oscillators, J Micromech Microeng 6(1) 115-117 (Mar 1996), 10T444
Dynamic simulations of micropumps, J Micromech Microeng 6(1) 128-130 (Mar 1996), 10T455
Fluid handling system for a chemical microanalyzer, J Micromech Microeng 6(1) 95-98 (Mar 1996), 10T458
Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, J Micromech Microeng 6(1) 69-72 (Mar 1996), 10A461
Modular microfluid system with an integrated micromixer, J Micromech Microeng 6(1) 99-102 (Mar 1996), 10T465
Hydro-pneumatic slow-active suspension with preview control, Vehicle Syst Dyn 25(5) 369-386 (May 1996), 11A327
Hybrid fuzzy logic algorithm for position control of pneumatic actuator with 3/2-way solenoid valves, Proc Inst Mech Eng C 210(C2) 167-176 (1996), 11A345
Optimum control of a floating wave-energy converter with restricted amplitude, J Offshore Mech Arctic Eng 118(2) 96-102 (May 1996), 11A346
Electrochemical microactuator: Principle and first results, J Microelectromechanical Syst 5(1) 2-9 (Mar 1996), 11A359
Robust adaptive control for hydraulic servosystems, J Dyn Syst Meas Control 118(2) 237-244 (Jun 1996), 12A337
Approach for the synthesis of oil hydraulic transmission line dynamics utilizing in situ measurements, J Syst Control Eng 210(I2) 77-93 (1996), 12A420
Automated fault tree analysis for hydraulic systems, J Dyn Syst Meas Control 118(2) 278-282 (Jun 1996), 12A421
Comparison between linear and nonlinear control of an electropneumatic servodrive, J Dyn Syst Meas Control 118(2) 245-252 (Jun 1996), 12A422
Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, J Dyn Syst Meas Control 118(2) 253-258 (Jun 1996), 12A423
Experimental identification of a flow orifice using a neural network and the conjugate gradient method, J Dyn Syst Meas Control 118(2) 272-277 (Jun 1996), 12A424
Implicit nonlinear robust control for an electrohydraulic system with uncertainties, J Syst Control Eng 210(I2) 103-111 (1996), 12A425
Modeling and designing a variable-displacement open-loop pump, J Dyn Syst Meas Control 118(2) 267-271 (Jun 1996), 12A426
New high supply pressure pneumatic flapper-nozzle with linear behavior, J Dyn Syst Meas Control 118(2) 259-266 (Jun 1996), 12A427

204G. Digital and numerical control systems

Matching and clustering: Two steps toward automatic object modeling in computer vision, Int J Robotics Res 14(6) 633-642 (Dec 1995), 4A386
Model reference adaptive fuzzy control system on an aeroengine, J Propulsion Power 11(6) 1257-1260 (Dec 1995), 4A387
Application of unified predictive control for an electro-hydraulic servo system, JSME Int J Ser C 38(4) 727-734 (Dec 1995), 6A334
Minimum energy control for single-input linear digital systems in z-domain, JSME Int J Ser C 38(4) 708-718 (Dec 1995), 6A337
Necessary and sufficient conditions for the absolute stability of discrete type Lurie control system, Appl Math Mech 16(10) 995-1001 (Oct 1995), 6T338
New approach to the design of digital model reference control systems, JSME Int J Ser C 38(4) 712-718 (Dec 1995), 6A339
Study on controlling algorithm to realize high-speed & high-accuracy control systems (1st Report): Proposal of modified delta operator (Japanese), J Japan Soc Precision Eng 62(3) 398-402 (Mar 1996), 9A438

204H. Control components, sensors

Study on vibration-free load sensor, Int J Japan Soc Precision Eng 29(1) 68-73 (Mar 1995), 1A416
Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, Int J Comput Integrated Manuf 8(5) 381-390 (Oct 1995), 2A286
Perspective theory for motion and shape estimation in machine vision, SIAM J Control Optim 33(5) 1530-1559 (Sep 1995), 2A287
Optical fiber sensing technique for edge-induced and internal delamination detection in composites, Smart Mat Struct 4(3) 164-169 (Sep 1995), 2A342
Feedback controller for a flexible structure using piezoceramic actuators, Dyn Control 5(4) 401-419 (Oct 1995), 3A368
Force control of a semi-active damper, Vehicle Syst Dyn 24(9) 695-723 (Oct 1995), 3A371
Precision position control of piezoelectric actuators using charge feedback, J Guidance Control Dyn 18(5) 1068-1073 (Oct 1995), 3A386
Development of passive microvalves by the FEM, J Micromech Microeng 5(3) 226-230 (Sep 1995), 3A392
Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, J Micromech Microeng 5(3) 219-225 (Sep 1995), 3A395
Two-dimensional integrated gas flow sensors by CMOS IC technology, J Micromech Microeng 5(3) 243-250 (Sep 1995), 3T396
Proposition of an improved differential stereo vision method: Simultaneous measurement of 3D coordinate and inclination of surface, Int J Japan Soc Precision Eng 29(2) 184-185 (Jun 1995), 3T413
Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, Optimal Control Appl Methods 16(5) 361-371 (Dec 1995), 4A347
Real-time vehicle trajectory supervision on the highway, Int J Robotics Res 14(6) 531-542 (Dec 1995), 4A377
Image processing by using fine motion of visual sensor (Japanese), J Japan Soc Precision Eng 61(10) 1480-1484 (Oct 1995), 4A388
Strain field analysis and sensor design for monitoring machine tool spindle bearing force, Int J Machine Tools Manuf 36(2) 203-216 (Feb 1996), 4A389
Study on a surface-motor driven precise positioning system, J Dyn Syst Meas Control 117(3) 311-319 (Sep 1995), 5A333
Dynamic analysis of a brushless dc motor using a modified harmonic balance method, J Dyn Syst Meas Control 117(3) 283-291 (Sep 1995), 5A338
Theoretical analysis of an airbag crash sensor, Math Eng Industry 5(3) 255-267 (1995), 5A339
Multiple control effector rate limiting, J Guidance Control Dyn 19(1) 30-37 (Feb 1996), 6T301
Decentralized robust fault tolerant control for the sensor failure of the fighter, Chinese J Aeronaut 8(1) 63-68 (Feb 1995), 6A340
Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, J Micromech Microeng 5(4) 270-275 (Dec 1995), 6T347
Fiber-ribbon positioning device, J Micromech Microeng 5(4) 313-318 (Dec 1995), 6T348
Field-emitter cathode for acceleration sensors, J Micromech Microeng 5(4) 282-288 (Dec 1995), 6T349
Thermal expansion analysis for differential pressure transducers by the LIGA process, J Micromech Microeng 5(4) 265-269 (Dec 1995), 6A352
Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, AIAA J 34(1) 123-128 (Jan 1996), 6A508
Radiation of nonstationary acoustic waves of radially polarized cylindrical piezotransducer (Russian), Prikl Mekh (Appl Mech) 31(4) 41-48 (1995), 7A334
Active control of sound transmission through a plate using a piezoelectric actuator and sensor, Smart Mat Struct 4(4) 231-239 (Dec 1995), 7A347
Adaptive suspension of vehicles using piezoelectric sensors, J Intelligent Mat Syst Struct 6(6) 744-756 (Nov 1995), 7A394
Active control using a fiber-optic interferometric sensor, Smart Mat Struct 4(4) 370-372 (Dec 1995), 7A411
Displacement sensor and ultra-precision positioning (Japanese), J Japan Soc Precision Eng 61(12) 1661-1665 (Dec 1995), 7T412
Fiber optic polarimetric dynamic force sensor, Exp Tech 20(1) 20-23 (Feb 1996), 7T413
From nanometer to picometer: Improvement of displacement sensors (Japanese), J Japan Soc Precision Eng 61(12) 1666-1670 (Dec 1995), 7T414
Intelligent ceramic materials for chemical sensors, J Intelligent Mat Syst Struct 6(6) 860-869 (Nov 1995), 7T415
Operation of the system of two parallel multi-mode cylindrical piezo-transducers under nonstationary electrical excitation (Russian), Prikl Mekh (Appl Mech) 31(3) 66-75 (1995), 7A416
Modeling and fusing uncertain multi-sensory data, J Robotic Syst 13(2) 95-109 (Feb 1996), 7A447
Present and future technique of ultraprecision positioning (Japanese), J Japan Soc Precision Eng 61(12) 1645-1649 (Dec 1995), 7T449
Vision resolvability for visually servoed manipulation, J Robotic Syst 13(2) 75-93 (Feb 1996), 7A453

Intensity-based optical fiber sensor for fatigue damage detection in advanced fiber-reinforced composites, Smart Mat Struct 4(4) 223-230 (Dec 1995), 7A806
Design considerations for a blind spot detector, Int J Vehicle Des 17(2) 198-207 (1996), 8A325
Analysis of structural deviation of C-type piezoresistive pressure sensors using the FEM (Chincse), J Dalian Univ Tech 35(4) 540-543 (Aug 1995), 8A526
Optimization of characteristics of elasto-damping elements from aspect of oscillatory comfort and vehicle handling, Int J Vehicle Des 17(1) 76-91 (1996), 8A834
Effect of actuator nonlinearities on aeroservoelasticity, J Guidance Control Dyn 19(2) 309-315 (Apr 1996), 8A1016
Application of single-mode optical fiber sensors in structural vibration suppression, J Intelligent Mat Syst Struct 7(1) 71-77 (Jan 1996), 9A174
Vibration suppression in a flexible structure based on fiber optics Michelson interferometric sensor, J Intelligent Mat Syst Struct 7(1) 65-70 (Jan 1996), 9A176
Bond graph models for linear motion magnetostrictive actuators, J Dyn Syst Meas Control 118(1) 161-167 (Mar 1996), 9A401
Angle sensor with scanning tunneling microscopy (1st Report): Error analysis and pitch measurement with two scanning tunneling microscopy tips (Japanese), J Japan Soc Precision Eng 62(3) 403-407 (Mar 1996), 9A439
Dynamic modeling and control of a ball-joint-like variable-reluctance spherical motor, J Dyn Syst Meas Control 118(1) 29-40 (Mar 1996), 9A440
Micro magnetic sensors (Japanese), J Japan Soc Precision Eng 62(3) 341-344 (Mar 1996), 9T441
Micro shock sensor (Japanese), J Japan Soc Precision Eng 62(3) 355-358 (Mar 1996), 9T442
Piezoelectric force for scanning force microscopy (SFM) (Japanese), J Japan Soc Precision Eng 62(3) 345-350 (Mar 1996), 9T443
Optimal sensor location in active control of flexible structures, AIAA J 34(4) 857-859 (Apr 1996), 9T897
Control over technological machines based on closed mechanisms of relative manipulation, J Machinery Manuf Reliab 5 82-88 (1995), 9A1007
Packaging of physical sensors for aggressive media applications, J Micromech Microeng 6(1) 187-192 (Mar 1996), 10T445
Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, J Micromech Microeng 6(1) 73-76 (Mar 1996), 10T453
Equivalent circuit representation of electromechanical transducers - I: Lumped-parameter systems, J Micromech Microeng 6(1) 157-176 (Mar 1996), 10A456
Experimental characterization of dynamic micromechanical transducers, J Micromech Microeng 6(1) 177-186 (Mar 1996), 10A457
Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, J Micromech Microeng 6(1) 69-72 (Mar 1996), 10A461
Microvalves with bistable buckled polymer diaphragms, J Micromech Microeng 6(1) 77-79 (Mar 1996), 10T462
Miniature self-aligned pressure sensing element, J Micromech Microeng 6(1) 33-35 (Mar 1996), 10A463
Modelization and characterization of asymmetrical thermal micro-actuators, J Micromech Microeng 6(1) 134-137 (Mar 1996), 10T464
Multi-axial strain gage with octagonal shape, J Micromech Microeng 6(1) 84-86 (Mar 1996), 10T466
New piezoresistive pressure transducer principle with improvements in media compatibility, J Micromech Microeng 6(1) 105-107 (Mar 1996), 10T467
Optimization of the geometry of electrostatic micromotors using only analytical equations, J Micromech Microeng 6(1) 108-111 (Mar 1996), 10T469
Surface micromachining technology applied to the fabrication of a FET pressure sensor, J Micromech Microeng 6(1) 80-83 (Mar 1996), 10A471
Valve-less planar pump isotropically etched in silicon, J Micromech Microeng 6(1) 87-91 (Mar 1996), 10T473
Scanning horizon sensor attitude correction for earth oblateness, J Guidance Control Dyn 19(3) 706-708 (Jun 1996), 11T234
Sensory selection in vehicle detection and avoidance, Robotics Autonomous Syst 17(1-2) 3-13 (Apr 1996), 11T333
Bent-beam strain sensors, J Microelectromechanical Syst 5(1) 52-58 (Mar 1996), 11A347
Fiber optic sensors in concrete structures: A review, Smart Mat Struct 5(2) 196-208 (Apr 1996), 11T348
Optical fiber sensor system embedded in a non-circular cross-sectional member, Smart Mat Struct 5(2) 235-242 (Apr 1996), 11A349
Piezoresistive carbon filament polymer-matrix composite strain sensor, Smart Mat Struct 5(2) 243-246 (Apr 1996), 11T350
Thick-aluminum-coated optical fibers: Fabrication and sensor application, Smart Mat Struct 5(2) 187-195 (Apr 1996), 11A351
Vibration modes of a resonant silicon tube density sensor, J Microelectromechanical Syst 5(1) 39-44 (Mar 1996), 11A352
Computational study of radiometric phenomena for powering microactuators with unlimited displacements and large available forces, J Microelectromechanical Syst 5(1) 59-65 (Mar 1996), 11T357
Development of piezoelectric XYT positioning device using impulsive force (Japanese), J Japan Soc Precision Eng 62(4) 574-578 (Apr 1996), 11A358
Sensing technique for the measurement of tactile forces in the gripping of dough-like materials, Proc Inst Mech Eng J Eng Manuf 210(B3) 261-269 (1996), 11A367
Self-sensing magnetostrictive actuator for vibration suppression, J Guidance Control Dyn 19(3) 713-715 (Jun 1996), 11T740
Optimal sensor placement of large flexible space structures, J Guidance Control Dyn 19(4) 961-963 (Aug 1996), 12T411
Parametrically adaptive drives of mechanical system: Control over the angular velocity, J Machinery Manuf Reliab 1 95-103 (1996), 12T412
Measurement reconstruction approach for distributed multisensor fusion, J Guidance Control Dyn 19(4) 842-847 (Aug 1996), 12T428

204I. Instrumentation, computer hardware

Guidance, navigation, and control from instrumentation to information management, J Guidance Control Dyn 19(1) 10-14 (Feb 1996), 6A312
Concept of an accuracy of coordinate measuring machines, J Machinery Manuf Reliab 3 58-68 (1995), 6A366
Study of system software of revolving solid measuring machine (Chinese), J Dalian Univ Tech 35(5) 658-663 (Oct 1995), 8A339
Special issue on underwater vehicle control, Model Ident Control 17(1) 5-73 (Jan 1996), 9A422
Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, J Micromech Microeng 6(1) 73-76 (Mar 1996), 10T453
Modelization and characterization of asymmetrical thermal micro-actuators, J Micromech Microeng 6(1) 134-137 (Mar 1996), 10T464
Multi-axial strain gage with octagonal shape, J Micromech Microeng 6(1) 84-86 (Mar 1996), 10T466

204K. Software, expert systems, artificial intelligence

Neural networks approach to AIAA aircraft control design challenge, J Guidance Control Dyn 18(4) 731-739 (Aug 1995), 1A417
Comparision of AI and DAI based planning techniques for automated manufacturing systems, J Intelligent & Robotic Syst 13(3) 201-245 (1995), 1A440
Model validation tests for multivariable nonlinear models including neural networks, Int J Control 62(4) 749-766 (Oct 1995), 2A244
Expert and knowledge-based systems in failure analysis, Eng Failure Anal 2(2) 137-149 (Jun 1995), 2A288
Powell's method applied to learning neural control of three unknown dynamic systems, Optimal Control Appl Methods 16(4) 251-262 (Sep 1995), 2A289
Profile measurement using software datums (Japanese), J Japan Soc Precision Eng 61(8) 1059-1063 (Aug 1995), 2T343
Software for profile measurements (Japanese), J Japan Soc Precision Eng 61(8) 1049-1053 (Aug 1995), 2T350
Aircraft antilock brake system with neural networks and fuzzy logic, J Guidance Control Dyn 18(5) 1113-1118 (Oct 1995), 3A362
Expert system for processing uncorrelated satellite tracks, J Guidance Control Dyn 18(5) 1139-1144 (Oct 1995), 3T387
Hybrid fuzzy logic flight controller synthesis via pilot modeling, J Guidance Control Dyn 18(5) 1098-1105 (Oct 1995), 3T388
Neural network approach to flow stress evaluation in hot deformation, J Mat Processing Tech 53(3-4) 552-566 (Sep 1995), 3A389
On-line learning neural-network controllers for autopilot systems, J Guidance Control Dyn 18(5) 1008-1015 (Oct 1995), 3A390
Real-time vehicle trajectory supervision on the highway, Int J Robotics Res 14(6) 531-542 (Dec 1995), 4A377
Recurrent artificial neural network simulation of a chaotic system without training, J Guidance Control Dyn 18(6) 1463-1466 (Dec 1995), 4T390
Neural-network-based scheme for sensor failure detection, identification, and accommodation, J Guidance Control Dyn 18(6) 1280-1286 (Dec 1995), 4A392
Plane generation strategies for a knowledge-based automated process planning system, Int J Comput Integrated Manuf 8(5) 399-410 (Dec 1995), 4A416
Approximate location of damage through the analysis of natural frequencies with artificial neural networks, Proc Inst Mech Eng E 209(E2) 117-123 (1995), 4A695
Radar assessment of structural concrete using neural networks, NDT&E Int 28(5) 281-288 (Oct 1995), 4A784
CMAC neural network control for high precision motion control in the presence of large friction, J Dyn Syst Meas Control 117(3) 415-420 (Sep 1995), 5A340
Direct contour mapping system with pattern recognizing faculties (Japanese), J Japan Soc Precision Eng 61(11) 1629-1633 (Nov 1995), 5A341
Fourier series neural network and its application to system identification, J Dyn Syst Meas Control 117(3) 253-261 (Sep 1995), 5A342
Knowledge-based hybrid expert system for automated interferometric data reduction, Opt Lasers Eng 24(1) 57-75 (1996), 5A343
New feedforward neural network structural learning algorithm: Augmentation by training with residuals, J Dyn Syst Meas Control 117(3) 411-415 (Sep 1995), 5A344
Overtraining, regularization and searching for a minimum, with application to neural networks, Int J Control 62(6) 1391-1407 (Dec 1995), 5T345
Case studies on modeling manufacturing processes using artificial neural networks, J Eng Indust 117(3) 412-417 (Aug 1995), 5A381
Stochastic neural network and its application to multi-maneuvering target tracking, Chinese J Aeronaut 8(1) 54-62 (Feb 1995), 6A297
F8 neurocontroller based on dynamic inversion, J Guidance Control Dyn 19(1) 150-156 (Feb 1996), 6A341
Knowledge engineering, Arch Comput Methods Eng 2(4) 51-68 (1995), 6A342
Self-organizing neural network approach to data-based modeling of fluid power systems dynamics using the GMDH algorithm, J Syst Control Eng 209(I4) 229-240 (1995), 6A343
Experience of the application of intelligent control paradigms to real manufacturing processes, J Syst Control Eng 209(I4) 293-308 (1995), 6A367
Expert system for multi-stage cold-forging process design with a re-designing algorithm, J Mat Processing Tech 54(1-4) 271-285 (Oct 1995), 6A556
Thin and deep hole drilling using a fuzzy discrete sliding mode control with a woodpeckering strategy, J Syst Control Eng 209(I4) 281-292 (1995), 6A579
Intelligent control system for multiple dof vibration isolation, J Intelligent Mat Syst Struct 6(6) 787-800 (Nov 1995), 7A136
Application of elementary neural networks and preview sensors for representing driver steering control behavior, Vehicle Syst Dyn 25(1) 3-30 (Jan 1996), 7A395
High performance positioning technique under intelligent control (Japanese), J Japan Soc Precision Eng 61(12) 1656-1660 (Dec 1995), 7T417
Use of images in a language- and culture-independent expert system for diagnosing pressure die-casting defects, J Mat Processing Tech 55(3-4) 296-302 (Dec 1995), 7A418
Fuzzy multicriteria decision-making method for material selection, J Manuf Syst 15(1) 1-12 (1996), 7A467
Fuzzy logic based approach for Pokayoke stoplight control in unmanned manufacturing cells, J Manuf Syst 15(1) 33-42 (1996), 7A471
Forging sequence design using an expert system, J Mat Processing Tech 55(2) 95-102 (Nov 1995), 7A722
Expert system shell for the selection of metal-cutting parameters, J Mat Processing Tech 55(2) 111-116 (Nov 1995), 7A740
Intelligent tool selection system, J Mat Processing Tech 55(2) 91-94 (Nov 1995), 7A743
Designs of learning controllers based on autoregressive representation of a linear system, J Guidance Control Dyn 19(2) 355-362 (Apr 1996), 8A271
Design of static reactive power compensator using fuzzy sliding mode control, Int J Control 63(2) 393-413 (Jan 1996), 8A338
Analysis and simulation expert system of planar link mechanism based on variational geometry (Chinese), J Dalian Univ Tech 35(2) 186-191 (Apr 1995), 8A340
Expert system for preliminary bridge design (Chinese), J Dalian Univ Tech 36(1) 72-75 (Jan 1996), 8A341
Implementation of expert system RYS when conceptual designing SPRE, Russian Aeronaut 38(2) 100 (1995), 8A342
Neural networks representation of a vehicle model: "Neuro-Vehicle", Int J Vehicle Des 17(1) 55-75 (1996), 8A343
Radar signal interpretation using neural network for defect detection in concrete, Mat Eval 54(3) 393-397 (Mar 1996), 8A344
Research and development for expert system of ship general arrangement (Chinese), J Dalian Univ Tech 35(3) 380-383 (Jun 1995), 8A345
Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, Int J Control 63(3) 433-455 (Feb 1996), 8A349
Parametric design and NC code generation of countersink cutting tools, Int J Comput Integrated Manuf 9(2) 105-112 (Apr 1996), 8A366
Process planning with genetic algorithms on results of knowledge-based reasoning, Int J Comput Integrated Manuf 9(2) 145-166 (Apr 1996), 8A367
Estimation of acoustic emission source waveform of fracture using a neural network, NDT&E Int 29(1) 21-25 (Feb 1996), 8A695
Function space BFGS quasi-Newton learning algorithm for time-varying recurrent neural networks, J Dyn Syst Meas Control 118(1) 132-138 (Mar 1996), 9A405
Fuzzy logic traction controllers and their effect on longitudinal vehicle platoon systems, Vehicle Syst Dyn 25(4) 277-303 (Apr 1996), 9A424
Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, Acta Mech Solida Sinica 9(1) 88-93 (1996), 9A444
Expert system to match robots and to synchronize their operations to pick and place large parts, J Intelligent & Robotic Syst 15(2) 165-179 (Feb 1996), 9A445
Modified ARTMAP network, with applications to scheduling of a robot-vision-tracking system, J Dyn Syst Meas Control 118(1) 1-8 (Mar 1996), 9A461
Recurrent neural networks coupled with linear systems: Observability in continuous and discrete time, Syst Control Lett 27(2) 109-116 (Feb 1996), 10A390
Hierarchical multivariable fuzzy controller for learning with genetic algorithms, Int J Control 63(5) 865-883 (Mar 1996), 10A407
Genetic algorithm automated approach to the design of sliding mode control systems, Int J Control 63(4) 721-739 (Mar 1996), 10A426
Analyses of possible failure mechanisms and root failure causes in power plant components using neural networks and structural failure database, J Pressure Vessel Tech 118(2) 237-246 (May 1996), 10A446
Artificial neural network technology as a method to evaluate the failure bending moment of a pipe with a circumferential crack, Int J Pressure Vessels Piping 68(1) 1-6 (1996), 10A447
Detection of tool failure in end milling, J Mat Processing Tech 57(1-2) 55-61 (Feb 1996), 10A448
Neural network approximation to the size effect in fracture of cementitious materials, Eng Fracture Mech 54(2) 249-261 (May 1996), 10A449
Predicting 800 to 500 degrees C weld cooling times by using backpropagation neural networks, Trans Can Soc Mech Eng 20(1) 75-85 (1996), 10A450
Special learning set of a neural network and its application in evaluating the failure bending moments of flawed pipes, Int J Pressure Vessels Piping 68(1) 7-11 (1996), 10A451
Development of a knowledge-based system for balancing complex mixed model assembly lines, Int J Comput Integrated Manuf 9(3) 205-216 (Jun 1996), 10A501
Direct optimization of gain scheduled controllers via genetic algorithms, J Guidance Control Dyn 19(3) 636-642 (Jun 1996), 11A275
Minimizing interceptor size using neural networks for terminal guidance law synthesis, J Guidance Control Dyn 19(3) 557-562 (Jun 1996), 11T312
Design and implementation of control system based on expert system (Chinese), J Dalian Univ Tech 36(3) 362-366 (May 1996), 11A353
Development of CAI systems of mathematical logic and intelligence (Chinese), J Dalian Univ Tech 36(3) 356-361 (May 1996), 11A354
Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, Int J Control 64(2) 217-239 (May 1996), 11A355
Intelligent Robotics Systems: SIRS '94, Robotics Autonomous Syst 16(1) 1-105 (Nov 1995), 11A364
Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, Mat Eval 54(6) 744-748 (Jun 1996), 11A708
Analysis and design of a nonlinear robust controller, J Dyn Syst Meas Control 118(2) 339-341 (Jun 1996), 12A362
Multivariable control of the J-85 turbojet engine for full flight envelope operation, J Guidance Control Dyn 19(4) 913-920 (Aug 1996), 12A388
Adaptive-critic-based neural networks for aircraft optimal control, J Guidance Control Dyn 19(4) 893-898 (Aug 1996), 12A399
Fuzzy driver on the handling track, J Dyn Syst Meas Control 118(2) 380-386 (Jun 1996), 12A406
Experimental identification of a flow orifice using a neural network and the conjugate gradient method,

J Dyn Syst Meas Control 118(2) 272-277 (Jun 1996), 12A424
Fuzzy neural controller design for use with a nonlinear system, J Syst Control Eng 210(I2) 141-150 (1996), 12A429
Neural network classification of flaws detected by ultrasonic means, NDT&E Int 29(2) 87-93 (Apr 1996), 12A430
Artificial neural network method for flawed pipe failure evaluation: Probabilistic models, Int J Pressure Vessels Piping 68(2) 203-207 (1996), 12A728

204M. Mechatronics (computer-integrated electromechanical systems)

Principle of virtual work in mechanical and electromechanical systems, Arch Appl Mech 65(6) 390-400 (Jul 1995), 1A418
Technology of sensor and mechatronics (Japanese), J Japan Soc Precision Eng 61(7) 919-922 (Jul 1995), 1T419
Automation of skilled work by mechatronics system (Japanese), J Japan Soc Precision Eng 61(7) 923-926 (Jul 1995), 1T439
Mechatronics supporting automation of manufacturing (Japanese), J Japan Soc Precision Eng 61(7) 913-914 (Jul 1995), 1T445
Recent mechatronics technology on precise cutting (Japanese), J Japan Soc Precision Eng 61(7) 927-930 (Jul 1995), 1T727
Application of mechatronics technology to injection molding machine (Japanese), J Japan Soc Precision Eng 61(7) 939-942 (Jul 1995), 1T733
Ergonomics and Mechatronics (Japanese), J Japan Soc Precision Eng 61(7) 915-918 (Jul 1995), 1T1467
Magneto-optical disk drive robust servo system with model reference adaptive control, Int J Japan Soc Precision Eng 29(2) 182-183 (Jun 1995), 3T391
Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), J Japan Soc Precision Eng 61(10) 1458-1462 (Oct 1995), 4A863
Application of unified predictive control for an electro-hydraulic servo system, JSME Int J Ser C 38(4) 727-734 (Dec 1995), 6A334
Mechatronics of the textile industry, Fibres Textiles in E Europe 2(3) 46-48 (Sep 1994), 6T344
Achieving Ultra-Precision by mechatronics: Active air Journal bearing, J Brazilian Soc Mech Sci 17(3) 278-291 (1995), 7A419
Special issue on underwater vehicle control, Model Ident Control 17(1) 5-73 (Jan 1996), 9A422
Mechatronics: Basics, objectives, examples, J Syst Control Eng 210(I1) 1-11 (1996), 9A446
Equivalent circuit representation of electromechanical transducers - I: Lumped-parameter systems, J Micromech Microeng 6(1) 157-176 (Mar 1996), 10A456
Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, JSME Int J Ser C 39(2) 294-301 (Jun 1996), 12A435
Cooperative manipulation by autonomous intelligent robots, JSME Int J Ser C 39(2) 286-293 (Jun 1996), 12A461

204P. Microelectromechanics, nanotechnology

Development of passive microvalves by the FEM, J Micromech Microeng 5(3) 226-230 (Sep 1995), 3A392
Micromachined, single-crystal silicon, tunable resonator, J Micromech Microeng 5(3) 257-264 (Sep 1995), 3T393
Minimum detectable force gradients of piezoelectric microcantilever, J Micromech Microeng 5(3) 231-236 (Sep 1995), 3T394
Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, J Micromech Microeng 5(3) 219-225 (Sep 1995), 3A395
Two-dimensional integrated gas flow sensors by CMOS IC technology, J Micromech Microeng 5(3) 243-250 (Sep 1995), 3T396
Anharmonic Casimir Oscillator: The Casimir effect in a model microelectromechanical system, J Microelectromechanical Syst 4(4) 193-205 (Dec 1995), 5T346
Demonstration of 3D microstructure self-assembly, J Microelectromechanical Syst 4(4) 170-176 (Dec 1995), 5T347
Equilibrium of hinged and hingeless structures rotated using surface tension forces, J Microelectromechanical Syst 4(4) 177-184 (Dec 1995), 5T348
Fabrication of vapor-deposited micro heat pipe arrays as an integral part of semiconductor devices, J Microelectromechanical Syst 4(3) 119-131 (Sep 1995), 5T349
Integrated force arrays: Theory and modeling of static operation, J Microelectromechanical Syst 4(3) 139-150 (Sep 1995), 5A350
Magnetic microactuation of polysilicon flexure structures, J Microelectromechanical Syst 4(4) 162-169 (Dec 1995), 5T351
Microphysical investigations on mechanical structures realized in p+ silicon, J Microelectromechanical Syst 4(3) 109-118 (Sep 1995), 5T352
Modeling of a three-layer piezoelectric bimorph beam with hysteresis, J Microelectromechanical Syst 4(4) 230-237 (Dec 1995), 5A353
New analytical solution for the load-deflection of square membranes, J Microelectromechanical Syst 4(4) 238-241 (Dec 1995), 5A354
TiNi (shape memory) films on silicon for MEMS applications, J Microelectromechanical Syst 4(4) 206-212 (Dec 1995), 5T355
Comments on measuring thin-film stresses using bilayer micromachined beams, J Micromech Microeng 5(4) 276-281 (Dec 1995), 6A345
Electrostatic harmonic microactuator for arterial plaque removal, J Micromech Microeng 5(4) 297-304 (Dec 1995), 6A346
Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, J Micromech Microeng 5(4) 270-275 (Dec 1995), 6T347
Fiber-ribbon positioning device, J Micromech Microeng 5(4) 313-318 (Dec 1995), 6T348
Field-emitter cathode for acceleration sensors, J Micromech Microeng 5(4) 282-288 (Dec 1995), 6T349
Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, J Micromech Microeng 5(4) 305-312 (Dec 1995), 6T350
Spring suspended corrugated membranes, J Micromech Microeng 5(4) 289-296 (Dec 1995), 6T351
Thermal expansion analysis for differential pressure transducers by the LIGA process, J Micromech Microeng 5(4) 265-269 (Dec 1995), 6A352
Present and future technique of ultraprecision positioning (Japanese), J Japan Soc Precision Eng 61(12) 1645-1649 (Dec 1995), 7T449
Numerical investigation of fluidic micro-oscillators, J Micromech Microeng 6(1) 115-117 (Mar 1996), 10T444
Packaging of physical sensors for aggressive media applications, J Micromech Microeng 6(1) 187-192 (Mar 1996), 10T445
CMOS foundry-based micromachining, J Micromech Microeng 6(1) 122-127 (Mar 1996), 10T452
Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, J Micromech Microeng 6(1) 73-76 (Mar 1996), 10T453
Coupled FEM simulation for the characterization of the fluid flow within a micromachined cantilever valve, J Micromech Microeng 6(1) 112-114 (Mar 1996), 10T454
Dynamic simulations of micropumps, J Micromech Microeng 6(1) 128-130 (Mar 1996), 10T455
Equivalent circuit representation of electromechanical transducers - I: Lumped-parameter systems, J Micromech Microeng 6(1) 157-176 (Mar 1996), 10A456
Experimental characterization of dynamic micromechanical transducers, J Micromech Microeng 6(1) 177-186 (Mar 1996), 10A457
Fluid handling system for a chemical microanalyzer, J Micromech Microeng 6(1) 95-98 (Mar 1996), 10T458
Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, J Micromech Microeng 6(1) 42-45 (Mar 1996), 10T459
LPCVD against PECVD for micromechanical applications, J Micromech Microeng 6(1) 1-13 (Mar 1996), 10T460
Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, J Micromech Microeng 6(1) 69-72 (Mar 1996), 10A461
Microvalves with bistable buckled polymer diaphragms, J Micromech Microeng 6(1) 77-79 (Mar 1996), 10T462
Miniature self-aligned pressure sensing element, J Micromech Microeng 6(1) 33-35 (Mar 1996), 10A463
Modelization and characterization of asymmetrical thermal micro-actuators, J Micromech Microeng 6(1) 134-137 (Mar 1996), 10T464
Modular microfluid system with an integrated micromixer, J Micromech Microeng 6(1) 99-102 (Mar 1996), 10T465
Multi-axial strain gage with octagonal shape, J Micromech Microeng 6(1) 84-86 (Mar 1996), 10T466
New piezoresistive pressure transducer principle with improvements in media compatibility, J Micromech Microeng 6(1) 105-107 (Mar 1996), 10T467
New process for releasing micromechanical structures in surface micromachining, J Micromech Microeng 6(1) 36-38 (Mar 1996), 10T468
Optimization of the geometry of electrostatic micromotors using only analytical equations, J Micromech Microeng 6(1) 108-111 (Mar 1996), 10T469
Protective coatings in harsh environments, J Micromech Microeng 6(1) 55-57 (Mar 1996), 10T470
Surface micromachining technology applied to the fabrication of a FET pressure sensor, J Micromech Microeng 6(1) 80-83 (Mar 1996), 10A471
Thermal conductivity measurements on thin films based on micromechanical devices, J Micromech Microeng 6(1) 118-121 (Mar 1996), 10T472
Valve-less planar pump isotropically etched in silicon, J Micromech Microeng 6(1) 87-91 (Mar 1996), 10T473
Decentralized robust control design for uncertain delay systems, J Optim Theory Appl 89(2) 311-323 (May 1996), 11A272
Bent-beam strain sensors, J Microelectromechanical Syst 5(1) 52-58 (Mar 1996), 11A347
Vibration modes of a resonant silicon tube density sensor, J Microelectromechanical Syst 5(1) 39-44 (Mar 1996), 11A352
Attitude determination and control of Clementine during Lunar mapping, J Guidance Control Dyn 19(3) 505-511 (Jun 1996), 11A356
Computational study of radiometric phenomena for powering microactuators with unlimited displacements and large available forces, J Microelectromechanical Syst 5(1) 59-65 (Mar 1996), 11T357
Development of piezoelectric XYT positioning device using impulsive force (Japanese), J Japan Soc Precision Eng 62(4) 574-578 (Apr 1996), 11A358
Electrochemical microactuator: Principle and first results, J Microelectromechanical Syst 5(1) 2-9 (Mar 1996), 11A359
Released Si microstructures fabricated by deep etching and shallow diffusion, J Microelectromechanical Syst 5(1) 18-23 (Mar 1996), 11T360
Surface-micromachined components for articulated microrobots, J Microelectromechanical Syst 5(1) 10-17 (Mar 1996), 11A361
Three-dimensional microfabrication by localized electrochemical deposition, J Microelectromechanical Syst 5(1) 24-32 (Mar 1996), 11A612
Development of the micromilling process for high-aspect-ratio microstructures, J Microelectromechanical Syst 5(1) 33-38 (Mar 1996), 11A616
Fabrication of a mechanical antireflection switch for fiber-to-the-home systems, J Microelectromechanical Syst 5(1) 45-51 (Mar 1996), 11T619

204R. Fault diagnosis, failure detection, and isolation

Parity space approach to robust fault detection in generalized state space systems, J Syst Control Eng 209(I3) 147-156 (1995), 2A290
Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, J Machinery Manuf Reliab 1 50-54 (1995), 3A723
Application of Choi-Williams reduced interference time frequency distribution to machinery diagnostics, Shock Vib 2(6) 437-444 (1995), 3A737
Prediction of the reliability of the tools of multistation automatic presses, J Machinery Manuf Reliab 1 45-49 (1995), 3T857
Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), J Vib Eng 8(3) 191-197 (Sep 1995), 4A391
Neural-network-based scheme for sensor failure detection, identification, and accommodation, J Guidance Control Dyn 18(6) 1280-1286 (Dec 1995), 4A392
Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), J Vib Eng 8(3) 198-203 (Sep 1995), 4A393
Sensitivity analysis algorithm for the state chi-square test, J Guidance Control Dyn 19(1) 219-222 (Feb 1996), 6A276
Robust fault detection filter design, J Guidance Control Dyn 19(1) 214-218 (Feb 1996), 6A279
Application of the improved BP network to rotating machinery fault diagnosis (Chinese), J Vib Eng 8(4) 342-350 (Dec 1995), 6A353
Failure diagnostic system on air-operated control valves using neural network, JSME Int J Ser C 38(4) 693-700 (Dec 1995), 6A354
Study on fault diagnosis method based on reliability theory (Chinese), J Vib Eng 8(4) 302-310 (Dec 1995), 6A355
Informational support of a system for dynamic diagnostics of cutting tool wear in turning, J Machinery Manuf Reliab 3 94-105 (1995), 6A829
Decentralized output feedback fault-tolerant control for uncertain large-scale systems, Chinese J Aeronaut 8(3) 222-229 (Aug 1995), 7A420
Fuzzy Petri net for fault diagnosis, Chinese J Aeronaut 8(4) 305-312 (Nov 1995), 7A421
Robust observer for fault detection of the sensor, Chinese J Aeronaut 8(3) 230-235 (Aug 1995), 7A422
Automated detection of surface flaws by the methods of correlation analysis, J Machinery Manuf Reliab 4 88-91 (1995), 7A802
Design of redundancy relations for failure detection and isolation by constrained optimization, Int J Control 63(3) 609-622 (Feb 1996), 8A346
Design of unknown input observers and robust fault detection filters, Int J Control 63(1) 85-105 (Jan 1996), 8A347
Methodology for altering-system performance evaluation, J Guidance Control Dyn 19(2) 438-444 (Apr 1996), 8T348
Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, Int J Control 63(3) 433-455 (Feb 1996), 8A349
Improved neural networks algorithm for rotary machinery fault diagnosis (Chinese), J Vib Eng 9(1) 31-37 (Mar 1996), 10A474
Application of wavelets to gearbox vibration signals for fault detection, J Sound Vib 192(5) 927-939 (May 1996), 11A362
Residual generation and fault detection for discrete-time systems using an l_{∞} technique, Int J Control 64(1) 155-174 (May 1996), 11A363
Novel approach to reconfigurable control systems design, J Guidance Control Dyn 19(4) 963-966 (Aug 1996), 12T375
Automated fault tree analysis for hydraulic systems, J Dyn Syst Meas Control 118(2) 278-282 (Jun 1996), 12A421
ER shear characteristics: Volume fraction, shear rate, time response, J Dyn Syst Meas Control 118(2) 221-225 (Jun 1996), 12A431
Fault detection and isolation by functional continuous deadbeat observers, Int J Control 64(3) 425-439 (Jun 1996), 12A432
Statistical simulation of the life of lumber straddle carriers with allowance for the mode of operation, J Machinery Manuf Reliab 1 55-59 (1996), 12T988

204T. Other applications

Controlling chaos of a periodically forced nonsmooth mechanical system, Acta Mech Sinica 11(3) 251-258 (1995), 3A96
Time-optimal control problems for the swing and the ski, Int J Control 62(6) 1409-1429 (Dec 1995), 5A334
Analysis of induction plasma deposition dynamics for control, J Dyn Syst Meas Control 117(3) 429-431 (Sep 1995), 5A336
Controlling chaos in a switched arrival system, Syst Control Lett 26(5) 335-339 (Dec 1995), 5A356
In-process control of surface roughness due to tool wear using a new ultrasonic system, Int J Machine Tools Manuf 36(3) 411-422 (Mar 1996), 5A357
Stability of magnetic bearing-rotor systems having a central support backup bearing, J Dyn Syst Meas Control 117(3) 277-282 (Sep 1995), 5A545
Optimal tracking control of multi-zone indoor environment spaces, J Dyn Syst Meas Control 117(3) 292-303 (Sep 1995), 5A1181
Fast adaptive noise control algorithm based on the lattice structure, Appl Acoust 47(1) 1-25 (1996), 6A253
Electrostatic harmonic microactuator for arterial plaque removal, J Micromech Microeng 5(4) 297-304 (Dec 1995), 6A346
Fiber-ribbon positioning device, J Micromech Microeng 5(4) 313-318 (Dec 1995), 6T348
Limiting characteristics of a resonance machine with an electromagnetic vibration exciter, J Machinery Manuf Reliab 3 88-93 (1995), 6A515
Novel equipment and Technology for tilling the soil, J Machinery Manuf Reliab 3 1-5 (1995), 6A539
Thin and deep hole drilling using a fuzzy discrete sliding mode control with a woodpeckering strategy, J Syst Control Eng 209(I4) 281-292 (1995), 6A579
Minimum-time running and swimming: An optimal control approach, J Biomech 29(2) 245-249 (Feb 1996), 6A1380
Optimal positioning of anodes for cathodic protection, SIAM J Control Optim 34(3) 855-873 (May 1996), 10A415
Ultra-reliable board identification system, J Manuf Syst 15(2) 84-94 (1996), 10T475
Accuracy enhancement of a horizontal machining center by real-time error compensation, J Manuf Syst 15(2) 113-124 (1996), 10A496

204Z. Experimental techniques

Practical identification and PI optimal controller of a laboratory drive system, Int J Control 62(3) 511-526 (Sep 1995), 2A291
Optimal scale translations in noisy measurement systems, NDT&E Int 28(5) 267-279 (Oct 1995), 4A394
Estimation of necessary accuracy of measuring airplane speed and coordinates of touchdown in automatic landing, Russian Aeronaut 38(1) 20-22 (1995), 6T356
Experimental validation of an integrated controls-structures design methodology, J Guidance Control Dyn 19(2) 324-333 (Apr 1996), 8A350
Experimental characterization of dynamic micromechanical transducers, J Micromech Microeng 6(1) 177-186 (Mar 1996), 10A457
Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, J Guidance Control Dyn 19(3) 671-679 (Jun 1996), 11A325
Experimental identification of a flow orifice using a neural network and the conjugate gradient method, J Dyn Syst Meas Control 118(2) 272-277 (Jun 1996), 12A424

206. ROBOTICS

Intelligent Robotics Systems: SIRS '94, Robotics Autonomous Syst 16(1) 1-105 (Nov 1995), 11A364
Special Issue: International workshop on biorobotics: Human-robot symbiosis, Robotics Autonomous Syst 18(1-2) 1-291 (Jul 1996), 12A1485

206B. End effectors

Flexible microgripper, Int J Japan Soc Precision Eng 29(1) 10-13 (Mar 1995), 1A420
Achieving dextrous grasping by integrating planning and vision-based sensing, Int J Robotics Res 14(5) 445-464 (Oct 1995), 2A292
Dynamic analysis of manipulators with consideration of dry friction, Comput Struct 57(6) 1045-1050 (Dec 1995), 2A293
Symmetry theory of planar grasp, Int J Robotics Res 14(5) 425-444 (Oct 1995), 2A294
Design optimization of a three dof variable-reluctance spherical wrist motor, J Eng Indust 117(3) 378-388 (Aug 1995), 5A358
Stiffness analysis and control of multi-fingered robot hands, J Dyn Syst Meas Control 117(3) 435-439 (Sep 1995), 5A359
Two-dof manipulator with adjustable compliance capabilities and comparison with the human finger, J Robotic Syst 13(1) 25-34 (Jan 1996), 5A360
Dual quaternion application to kinematic calibration of wrist-mounted camera, J Robotic Syst 13(3) 153-162 (Mar 1996), 7A431
Analysis of force distribution in grasps using augmentation, Proc Inst Mech Eng C 210(C1) 15-22 (1996), 8A351
Influence of an off-set payload on a flexible manipulator, J Sound Vib 190(4) 721-725 (Mar 1996), 8A352
Liapunov stability of force-controlled grasps with a multi-fingered hand, Int J Robotics Res 15(2) 137-154 (Apr 1996), 8A353
Position-force control of robot interacting with dynamic environment in Cartesian space, J Dyn Syst Meas Control 118(1) 187-192 (Mar 1996), 9A463
Computer simulation of the deformation of dough-like materials in a parallel plate gripper, Proc Inst Mech Eng J Eng Manuf 210(B2) 119-126 (1996), 10A476
Design methodology approach for flexible grippers, J Intelligent & Robotic Syst 15(3) 307-328 (Mar 1996), 11A365
Robot grasp synthesis algorithms: A survey, Int J Robotics Res 15(3) 230-266 (Jun 1996), 11A366
Sensing technique for the measurement of tactile forces in the gripping of dough-like materials, Proc Inst Mech Eng J Eng Manuf 210(B3) 261-269 (1996), 11A367
Statically determinate self centering grippers, Mec Appl 40(1) 109-118 (Feb 1995), 11A368
Comparison of contact sensor localization abilities during manipulation, Robotics Autonomous Syst 17(4) 217-233 (Jun 1996), 12A433
Contact points identification in enveloping grasp, JSME Int J Ser C 39(2) 302-307 (Jun 1996), 12A434
Constraint formulation for invariant hybrid position-force control of robots, J Dyn Syst Meas Control 118(2) 290-298 (Jun 1996), 12A451
Motion-force control of robotic manipulators, J Dyn Syst Meas Control 118(2) 386-389 (Jun 1996), 12A455
Variable structure hybrid control of manipulators in unconstrained and constrained motion, J Dyn Syst Meas Control 118(2) 327-332 (Jun 1996), 12A458

206C. Actuators (prime movers)

Giant magnetostriction actuator of laminated plate type (Japanese), J Japan Soc Precision Eng 61(7) 1011-1015 (Jul 1995), 1A421
Torsional vibration control by active piezoelectric system, J Theor Appl Mech 33(4) 809-823 (1995), 3A379
Electrostatic wobble motor (Japanese), J Japan Soc Precision Eng 61(9) 1231-1234 (Sep 1995), 3T397
Acoustic control using a self-sensing actuator, J Sound Vib 187(1) 145-165 (Oct 1995), 4A321
Equivalent forces and wavenumber spectra of shaped piezoelectric actuators, J Sound Vib 187(1) 111-131 (Oct 1995), 4A395
Torque redistribution and time regulation methods for actuator saturation avoidance of fault-tolerant parallel robots, J Robotic Syst 12(12) 807-820 (Dec 1995), 4A396
Theory and Practice of Robots and Manipulators - Proc of RoManSy 10: Tenth CISM-IFToMM Symp (Springer-Verlag, Wien, 1995) 5N13
Study on a surface-motor driven precise positioning system, J Dyn Syst Meas Control 117(3) 311-319 (Sep 1995), 5A333
Dynamic analysis of a brushless dc motor using a modified harmonic balance method, J Dyn Syst Meas Control 117(3) 283-291 (Sep 1995), 5A338
Recursive calibration of industrial manipulators by adaptive filtering, J Eng Indust 117(3) 406-411 (Aug 1995), 5A361
Self-sensing active vibration control using the moving-coil-type actuator, J Vib Acoust 117(4) 411-415 (Oct 1995), 5A700
Motion transmissibility of in-parallel actuated manipulators, JSME Int J Ser C 38(4) 749-755 (Dec 1995), 6A357
Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, AIAA J 34(1) 123-128 (Jan 1996), 6A508
Impedance-based modeling of actuators bonded to shell structures, J Intelligent Mat Syst Struct 6(6) 765-775 (Nov 1995), 7A423
New stage system for step-and-repeat scanning stepper (Japanese), J Japan Soc Precision Eng 61(12) 1676-1680 (Dec 1995), 7T424
Zig-Zag piezoelectric actuators: Geometrical control of displacement and resonance, J Intelligent Mat Syst Struct 6(6) 783-786 (Nov 1995), 7A425
Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, J Intelligent Mat Syst Struct 7(1) 25-32 (Jan 1996), 9A195
Modeling and control of backlash in the drive mechanism of a radially rotating compliant beam, J Dyn Syst Meas Control 118(1) 158-161 (Mar 1996), 9A427
Dynamic modeling and control of a ball-joint-like variable-reluctance spherical motor, J Dyn Syst Meas Control 118(1) 29-40 (Mar 1996), 9A440
Energy-based comparison of solid-state induced-strain actuators, J Intelligent Mat Syst Struct 7(1) 4-14 (Jan 1996), 9T447
Kinematic and static characteristics of in-parallel actuated manipulators at singular points and in their neighborhood, JSME Int J Ser C 39(1) 85-93 (Mar 1996), 9A448
Dynamic effects of piezoactuators on the cylindrical shell response, AIAA J 34(4) 795-801 (Apr 1996), 9A649
Self-tuning generalized predictive control of an electrohydraulic actuator, Int J Robotics Autom 11(1) 41-47 (1996), 10T477
Curved piezoactuator model for active vibration control of cylindrical shells, AIAA J 34(5) 1034-1040 (May 1996), 10A882
Development of a small actuator with three degrees of rotational freedom - 3rd Report: Design and experiment of a spherical actuator (Japanese), J Japan Soc Precision Eng 62(4) 599-603 (Apr 1996), 11A369
Dynamic transduction characterization of magnetostrictive actuators, Smart Mat Struct 5(2) 115-120 (Apr 1996), 11A370
Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, JSME Int J Ser C 39(2) 294-301 (Jun 1996), 12A435
Combining genetic and deterministic algorithms for locating actuators on space structures, J Spacecraft Rockets 33(3) 422-427 (Jun 1996), 12A860

206D. Locomotion (mobility)

Real-time shared control system for space telerobotics, J Intelligent & Robotic Syst 13(3) 247-262 (1995), 1A413
Generation of discontinuous gaits for quadruped walking vehicles, J Robotic Syst 12(9) 599-611 (Sep 1995), 1A422
Control of nonholonomic wheeled mobile robots by state feedback linearization, Int J Robotics Res 14(6) 543-559 (Dec 1995), 4A397
Theory and Practice of Robots and Manipulators - Proc of RoManSy 10: Tenth CISM-IFToMM Symp (Springer-Verlag, Wien, 1995) 5N13
Positioning system for mobile robot using LED marks (Japanese), J Japan Soc Precision Eng 61(11) 1579-1583 (Nov 1995), 5A362
Development of a flexure-hinged translation mechanism driven by two piezoelectric stacks, JSME Int J Ser C 38(4) 743-748 (Dec 1995), 6A358
Dynamic behavior of a mobile robot vehicle with a two caster and two driving wheel configuration, Vehicle Syst Dyn 25(2) 89-112 (Feb 1996), 7A399
Distributed algorithms for formation of geometric patterns with many mobile robots, J Robotic Syst 13(3) 127-139 (Mar 1996), 7A426
Robust sliding-mode control applied to a 5-link biped robot, J Intelligent & Robotic Syst 15(1) 67-133 (Jan 1996), 7A427
Perception, planning, and control for autonomous walking with the ambler planetary rover, Int J Robotics Res 15(2) 155-180 (Apr 1996), 8A354
Tracking the gradient of artificial potential fields: Sliding mode control for mobile robots, Int J Control 63(3) 417-432 (Feb 1996), 8A355
Sense organs of insect legs and the selection of sensors for agile walking robots, Int J Robotics Res 15(2) 113-127 (Apr 1996), 8A1413
Autonomous driving of multiple AGVs for FMS by use of SLA (Japanese), J Japan Soc Precision Eng 62(2) 260-264 (Feb 1996), 9A449
Exploration of a mobile robot based on sonar probability mapping, J Dyn Syst Meas Control 118(1) 150-157 (Mar 1996), 9A450
Optimal control of an n-legged robot, J Syst Control Eng 210(I1) 51-63 (1996), 9A451
Trajectory tracking control for navigation of the inverse pendulum type self-contained mobile robot, Robotics Autonomous Syst 17(1-2) 65-80 (Apr 1996), 11A336
Intelligent Robotics Systems: SIRS '94, Robotics Autonomous Syst 16(1) 1-105 (Nov 1995), 11A364
Designing a behavior of a mobile robot equipped with a manipulator to open and pass through a door, Robotics Autonomous Syst 17(1-2) 53-64 (Apr 1996), 11T371
Development of the robotic travel aid "HITOMI", Robotics Autonomous Syst 17(1-2) 119-128 (Apr 1996), 11A372
Finding pedestrians by estimating temporal-frequency and spatial-period of the moving objects, Robotics Autonomous Syst 17(1-2) 25-34 (Apr 1996), 11T373
Moving the frontiers between robotics and biology, Robotics Autonomous Syst 16(2) 107-361 (Dec 1995), 11A374
Optimum design of a buoyancy and gravity-driven underwater robot, J Robotic Syst 13(7) 461-473 (Jul 1996), 11A375
Outdoor robots system for autonomous mobile all-purpose platform, Robotics Autonomous Syst 17(1-2) 99-106 (Apr 1996), 11T376
Selective refinement of 3D scene description by attentive observation for mobile robot, Robotics Autonomous Syst 17(1-2) 15-23 (Apr 1996), 11T377
Variational approach to the optimization of gait for a bipedal robot, Proc Inst Mech Eng C 210(C2) 177-186 (1996), 11A378
Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, Robotics Autonomous Syst 17(1-2) 35-52 (Apr 1996), 11T379
Detecting and diagnosing mistakes in vision-based navigation, Robotics Autonomous Syst 17(4) 259-285 (Jun 1996), 12T436
Feasible map algorithm for path planning, Robotics Autonomous Syst 17(3) 149-170 (May 1996), 12T437
Landmark selection strategies for path execution, Robotics Autonomous Syst 17(3) 171-185 (May 1996), 12T438
Parallel processing architecture for sensor-based control of intelligent mobile robots, Robotics Autonomous Syst 17(4) 235-257 (Jun 1996), 12A439
Shortest paths for a car-like robot maneuvering around obstacles, Robotics Autonomous Syst 17(3) 139-148 (May 1996), 12A440
Ties that bond: Motion planning for multiple tethered robots, Robotics Autonomous Syst 17(3) 187-215 (May 1996), 12T441
Autonomous generation of reflexion-based robot controller using inductive learning, Robotics Autonomous Syst 17(4) 287-305 (Jun 1996), 12A450

206E. Kinematics, dynamics

50th Anniversary of the Design Engineering Division (ASME Press, New York, 1995) 1N20
Mathematical modeling for a class of flexible robot, Appl Math Model 19(9) 537-542 (Sep 1995), 1A423
Modeling, simulation, and control of robots and robotized FMS, Facta Series Mech Auto Control Robotic 1(3) 241-280 (1993), 1A424
Smart robot's geometric model inverting system, J Robotic Syst 12(9) 629-633 (Sep 1995), 1A425
Computationally efficient dynamic modelling of robot arms, Bull Polish Acad Sci Tech Sci 43(1) 23-29 (1995), 1A431
Finite twist mapping and its application to planar serial manipulators with revolute joints, Proc Inst Mech Eng C 209(C4) 263-271 (1995), 2A64
Analytical-form direct kinematics for the second scheme of a 5-5 general-geometry fully parallel manipulator, J Robotic Syst 12(10) 661-676 (Oct 1995), 2A295
Design of kinematically isotropic rolling robots with omnidirectional wheels, Mech Machine Theory 30(8) 1127-1137 (Nov 1995), 2A296
Dynamic control of a robot manipulator for high-performance conveyor tracking, J Robotic Syst 12(10) 647-660 (Oct 1995), 2A297
Dynamic coupling index for underactuated manipulators, J Robotic Syst 12(10) 693-707 (Oct 1995), 2A298
Dynamics of industrial robot manipulators, Mech Machine Theory 30(7) 1057-1072 (Oct 1995), 2A299
Forward and inverse kinematics of IRb-6 manipulator, Mech Machine Theory 30(7) 1039-1056 (Oct 1995), 2A300
Kinematic chains for robot hands - I: Orderly number-synthesis, Mech Machine Theory 30(8) 1193-1215 (Nov 1995), 2A301
Kinematic chains for robot hands - II: Kinematic constraints, classification, connectivity, and actuation, Mech Machine Theory 30(8) 1217-1239 (Nov 1995), 2A302
Kinematic models for model-based compliant motion in the presence of uncertainty, Int J Robotics Res 14(5) 465-482 (Oct 1995), 2A303
Parallel and redundant robots, J Intelligent & Robotic Syst 14(1) (1995), 2A304
Singularities in mechanisms: The local trajectory tracking problem, Mech Machine Theory 30(8) 1139-1148 (Nov 1995), 2A305
Closed loop shaped-input strategies for flexible robots, Int J Robotics Res 14(5) 510-529 (Oct 1995), 2A308
Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentations, J Intelligent & Robotic Syst 14(2) 219-238 (Oct 1995), 3A344
Approach to automatic generation of dynamic equations of elastic joint manipulators in symbolic language, J Intelligent & Robotic Syst 14(2) 199-218 (Oct 1995), 3A398
Biological aspects of controlling complex robotic systems (Russian), Glas Tech Series 31 105-128 (1995), 3A399
Design methodology for zero reaction robots, Trans Can Soc Mech Eng 19(3) 197-211 (1995), 3A400
Experiments with fuzzy logic application to robot control with model-based dynamic compensation (Russian), Glas Tech Series 31 149-172 (1995), 3A401
Experiments with nontraditional hybrid control technique of biped locomotion robots (Russian), Glas Tech Series 31 197-220 (1995), 3A402
Manipulators with adaptive kinematics, J Machinery Manuf Reliab 1 73-77 (1995), 3T403
Quality of stabilization of robot interacting with dynamic environment, J Intelligent & Robotic Syst 14(2) 155-179 (Oct 1995), 3A404
Quasiperiodic oscillations in robot dynamics, Nonlinear Dyn 8(4) 513-528 (Dec 1995), 4A126
Control of nonholonomic wheeled mobile robots by state feedback linearization, Int J Robotics Res 14(6) 543-559 (Dec 1995), 4A397
Kinematic analysis of a hybrid serial-and-parallel-driven redundant industrial manipulator, Int J Robotics Autom 10(4) 159-166 (1995), 4A398
Lie group formulation of robot dynamics, Int J Robotics Res 14(6) 609-618 (Dec 1995), 4A399
Mechanical analysis of high precision manipulator, Model Ident Control 16(4) 233-241 (Oct 1995), 4A400
Real-time direct kinematics of general six-dof parallel manipulators with minimum-sensor data, J Robotic Syst 12(12) 833-844 (Dec 1995), 4A401
Stiffness of a novel six-dof parallel manipulator, J Robotic Syst 12(12) 845-856 (Dec 1995), 4A402
Study of reactional force compensation based on three-dof parallel platforms, J Robotic Syst 12(12) 783-794 (Dec 1995), 4A403
Symbolic modeling of a flexible manipulator via assembling of its generalized Newton Euler model, Mech Machine Theory 31(1) 45-56 (Jan 1996), 4A404
Variable stiffness control of a single-link flexible robotic arm, J Sound Vib 187(1) 1-21 (Oct 1995), 4A405
Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, J Robotic Syst 12(12) 883-893 (Dec 1995), 4A409
Simulation and computer-aided kinematic design of three-dof spherical parallel manipulators, J Robotic Syst 12(12) 857-869 (Dec 1995), 4A859

Theory and Practice of Robots and Manipulators - Proc of RoManSy 10: Tenth CISM-IFToMM Symp (Springer-Verlag, Wien, 1995) 5N13
Comparative study of recursive methods, Arch Appl Mech 66(1-2) 9-19 (Dec 1995), 5A74
Stiffness analysis and control of multi-fingered robot hands, J Dyn Syst Meas Control 117(3) 435-439 (Sep 1995), 5A359
Generalization of Newton-Euler model for flexible manipulators, J Robotic Syst 13(1) 11-24 (Jan 1996), 5A363
Kinematics of single-loop mechanisms and serial robot arms: A systematic approach, Meccanica 30(6) 685-705 (Dec 1995), 5A364
Limits at Σ_3 in a new formulation for path-placement in the workcells of planar 3-R robots, J Mech Des 117(3) 485-490 (Sep 1995), 5A365
Metric relations and displacement groups in mechanism and robot kinematics, J Mech Des 117(3) 470-478 (Sep 1995), 5A366
Redundancy resolution of robotic manipulators using normalized generalized inverses, J Mech Des 117(3) 454-459 (Sep 1995), 5A367
Robust control scheme for asymptotic tracking of robot motion, J Intelligent & Robotic Syst 14(3) 263-282 (Nov 1995), 5A368
Two-dimensional formulation for path-placement in the workcells of planar 3-R robots, J Mech Des 117(3) 479-484 (Sep 1995), 5A369
Algorithm for determining the workspace of a 4R manipulator on the bases of the theory of envelopes, J Machinery Manuf Reliab 2 77-82 (1995), 5T380
Scalar form of dynamic equations for a topologically uniform 3D-chain, Trans Can Soc Mech Eng 19(4) 397-416 (1995), 6A83
Joint displacement method for multiloop kinematic analysis, JSME Int J Ser C 38(4) 790-797 (Dec 1995), 6A359
Kinematic and static analysis of a planar two-dof parallel manipulator (German), Mech Machine Theory 31(2) 149-160 (Feb 1996), 6A360
Physical model of the solution space of 3-dof parallel planar manipulators, Mech Machine Theory 31(2) 161-171 (Feb 1996), 6A361
Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, Mech Machine Theory 31(2) 173-184 (Feb 1996), 6A362
Pseudoholonomic behavior of planar space robots, J Guidance Control Dyn 19(1) 251-253 (Feb 1996), 6T363
Dynamic modeling and vibration suppression of a slewing structure utilizing piezoelectric sensors and actuators, J Sound Vib 189(1) 13-31 (Jan 1996), 7A400
Adaptive path planning and obstacle avoidance for a robot with a large degree of redundancy, J Robotic Syst 13(3) 163-176 (Mar 1996), 7A428
Balancing technique to stabilize local torque optimization solution of redundant manipulators, J Robotic Syst 13(3) 177-185 (Mar 1996), 7A429
Deflection compensation for large flexible manipulators, Mech Machine Theory 31(3) 317-329 (Apr 1996), 7A430
Dual quaternion application to kinematic calibration of wrist-mounted camera, J Robotic Syst 13(3) 153-162 (Mar 1996), 7A431
Forward displacement analysis of general six-in-parallel SPS (Stewart) platform manipulators using soma coordinates, Mech Machine Theory 31(3) 331-337 (Apr 1996), 7A432
Free-floating closed-chain planar robots: Kinematics and path planning, Nonlinear Dyn 9(1-2) 1-19 (Feb 1996), 7A433
Kinematic isotropy and optimal kinematic design of planar manipulators and a 3 dof spatial manipulator, Int J Robotics Res 15(1) 61-77 (Feb 1996), 7A434
One method for efficient dynamic modeling of flexible manipulators, Mech Machine Theory 31(3) 297-315 (Apr 1996), 7A435
Simulating discontinuous phenomena affecting robot motion, J Intelligent & Robotic Syst 15(1) 53-65 (Jan 1996), 7A436
Solving the forward kinematics of parallel manipulators with a genetic algorithm, J Robotic Syst 13(2) 111-125 (Feb 1996), 7A437
Trajectory planning of redundant manipulator using genetic algorithm, Int J Japan Soc Precision Eng 29(3) 261-262 (Sep 1995), 7T438
Control of flexible manipulators via singular perturbations and distributed vibration damping, Dyn Control 6(1) 5-32 (Jan 1996), 7A441
Adaptive control of flexible manipulators carrying large uncertain payloads, J Robotic Syst 13(4) 219-228 (Apr 1996), 8A356
Modeling and simulation of assembly in a free-floating work environment by a free-floating robot, J Mech Des 118(1) 115-120 (Mar 1996), 8A357
Performance quality and tolerance sensitivity of mechanisms, J Mech Des 118(1) 144-150 (Mar 1996), 8A358
Spatial reasoning about robot complaint movements and optimal paths in qualitatively modeled environments, Int J Robotics Res 15(2) 181-210 (Apr 1996), 8A359
Kinematic and static characteristics of in-parallel actuated manipulators at singular points and in their neighborhood, JSME Int J Ser C 39(1) 85-93 (Mar 1996), 9A448
Adaptive control of an industrial robot retrofitted with an open-architecture controller, J Dyn Syst Meas Control 118(1) 143-150 (Mar 1996), 9A452
Application of Spinor method to dynamic analysis of robot, Appl Math Mech 17(1) 77-83 (Jan 1996), 9A453
Optimal trajectory design for the identification of robot and load dynamics, Appl Math Comp Sci 5(4) 671-687 (1995), 9A454
Stochastic response of a flexible mobile robotic manipulator structure, Comput Struct 59(5) 891-898 (Jun 1996), 9A455
Study on coupled torques in contouring control of articulated robot mechanism (Japanese), J Japan Soc Precision Eng 62(2) 270-274 (Feb 1996), 9A456
Vibration analysis of elastic manipulators with the adjacent link joint method, JSME Int J Ser C 39(1) 94-101 (Mar 1996), 9A457
Parallel computational algorithms for the kinematics and dynamics of planar and spatial parallel manipulators, J Dyn Syst Meas Control 118(1) 22-28 (Mar 1996), 9A467
Control over technological machines based on closed mechanisms of relative manipulation, J Machinery Manuf Reliab 5 82-88 (1995), 9A1007
Statics and Kinematics with Applications to Robotics (Cambridge UP, New York, 1996) 10R14
Analysis of the structural static response, eigenvalues and eigenvectors of manipulators with flexible joints and links (Spanish), J Brazilian Soc Mech Sci 18(1) 40-49 (Mar 1996), 10A478
Constrained optimization approach to resolving manipulator redundancy, J Robotic Syst 13(5) 275-288 (May 1996), 10A479
Design, dynamics and identification of a flexible joint robot manipulator, Int J Robotics Autom 11(1) 22-35 (1996), 10A480
Efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters, J Robotic Syst 13(5) 261-273 (May 1996), 10A481
Elastic-link manipulators: Modeling, simulation, and experiments, Int J Robotics Autom 11(1) 13-21 (1996), 10A482
Motions with minimal joint speeds and joint accelerations for redundant manipulators, Eng Optim 25(4) 277-294 (Mar 1996), 10A483
Parameter optimization for a tube-crawling robot, Mech Solids 30(6) 23-35 (1995), 10A484
Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, Mech Machine Theory 31(5) 573-587 (Jul 1996), 11A74
Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, Mech Machine Theory 31(5) 589-605 (Jul 1996), 11A75
Stability analysis of a robust PD control law for robot manipulators, J Robotic Syst 13(6) 353-358 (Jun 1996), 11A266
Development of virtual link method for the solution of hyper-redundant spatial robots, J Robotic Syst 13(6) 371-378 (Jun 1996), 11A380
Fast, robust solution to the Stewart platform forward kinematics, J Robotic Syst 13(7) 407-427 (Jul 1996), 11A381
First integral approach to nonlinear motion analysis of a two-link system, Int J Non-Linear Mech 31(3) 405-412 (May 1996), 11A382
Formulation for the workspace boundary of general N-revolute manipulators, Mech Machine Theory 31(5) 637-646 (Jul 1996), 11A383
Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, J Intelligent & Robotic Syst 15(3) 263-289 (Mar 1996), 11A384
Modeling of flexible manipulators using virtual rigid links and passive joints, Int J Robotics Res 15(3) 290-299 (Jun 1996), 11A385
Stochastic dynamical modeling of an open-chain manipulator in a fluid environment, Mech Machine Theory 31(5) 561-572 (Jul 1996), 11A386
Structural kinematics of 6-revolute-axis robot manipulators, Mech Machine Theory 31(5) 647-657 (Jul 1996), 11A387
New approach to robust position-force control of flexible-joint robot manipulators, J Robotic Syst 13(7) 429-444 (Jul 1996), 11A393
Classification of serial robot-manipulators with nonremovable singularities, J Mech Des 118(2) 202-208 (Jun 1996), 12A442
Determination of the workspace of planar parallel manipulators with joint limits, Robotics Autonomous Syst 17(3) 129-138 (May 1996), 12A443
New resolution scheme of the forward kinematics of parallel manipulators using extra sensors, J Mech Des 118(2) 214-219 (Jun 1996), 12A444
Numerical algorithms for mapping boundaries of manipulator workspaces, J Mech Des 118(2) 228-234 (Jun 1996), 12A445
Recursive formulations of a flexible multibody system by the method of weighted residual, JSME Int J Ser C 39(2) 257-264 (Jun 1996), 12A446
Special issue on redundant robots, Lab Robotics Autom 8(1) 3-83 (1996), 12T447
Study on direct kinematics of Stewart platform: Kinematic analysis by origami solution (Japanese), J Japan Soc Precision Eng 62(5) 732-736 (May 1996), 12A448
Working capability analysis of Stewart platforms, J Mech Des 118(2) 220-227 (Jun 1996), 12A449

206F. Sensors and controls

Human-in-the-loop evaluation of remote manipulator system active damping augmentation, J Guidance Control Dyn 18(4) 689-695 (Aug 1995), 1A395
Control of a flexible space robot executing a docking maneuver, J Guidance Control Dyn 18(4) 756-766 (Aug 1995), 1A426
Selection of features and evaluation of visual measurements during robotic visual servoing tasks, J Intelligent & Robotic Syst 13(3) 279-304 (1995), 1A427
Experimental control of a single-link flexible arm incorporating electrorheological fluids, J Guidance Control Dyn 18(4) 916-919 (Aug 1995), 1T433
Achieving dextrous grasping by integrating planning and vision-based sensing, Int J Robotics Res 14(5) 445-464 (Oct 1995), 2A292
Adaptive control of robot manipulators including motor dynamics, J Syst Control Eng 209(13) 207-217 (1995), 2A306
CAD-based off-line planning for active vision, J Robotic Syst 12(10) 677-691 (Oct 1995), 2A307
Closed loop shaped-input strategies for flexible robots, Int J Robotics Res 14(5) 510-529 (Oct 1995), 2A308
Comparative studies between finite and infinite time interval controllers for flexible joint robots, J Syst Control Eng 209(13) 219-224 (1995), 2T309
Decentralized adaptive control of a directly driven hydraulic manipulator - Part 1: Theory, J Syst Control Eng 209(13) 191-196 (1995), 2A310
Decentralized adaptive control of a directly driven hydraulic manipulator - Part 2: Experiment, J Syst Control Eng 209(13) 197-205 (1995), 2A311
Development of a wireless communication system for a distributed autonomous robotic system (Japanese), J Japan Soc Precision Eng 61(8) 1136-1140 (Aug 1995), 2A312
Estimates of flexible-joint robot model response times and some control applications, Syst Control Lett 26(2) 79-85 (Sep 1995), 2A313
Manipulator control design using a nonparametric method, Mech Machine Theory 30(8) 1241-1254 (Nov 1995), 2A314
Partial state feedback controller for trajectory tracking of rigid-link flexible-joint robots using an observed backstepping approach, J Robotic Syst 12(11) 727-746 (Nov 1995), 2A315
Robust guaranteed cost control of uncertain nonlinear robotic system using mixed minimum time and quadratic performance index, Optimal Control Appl Methods 16(4) 273-282 (Sep 1995), 2T316
Understanding action and sensing by designing action-based sensors, Int J Robotics Res 14(5) 483-509 (Oct 1995), 2A317
Robust control of a manipulator performing constrained motion with uncertainties in the constraint functions, J Robotic Syst 12(11) 747-755 (Nov 1995), 2A346
Biological aspects of controlling complex robotic systems (Russian), Glas Tech Series 31 105-128 (1995), 3A399
Experiments with fuzzy logic application to robot control with model-based dynamic compensation (Russian), Glas Tech Series 31 149-172 (1995), 3A401
Adaptive hybrid control of robots (Russian), Glas Tech Series 31 1-19 (1995), 3A405
Analysis of shift locomotive work as element of excavator-haulage train robot system (Polish), Arch Gornictwa 40(2) 197-209 (1995), 3T406
Application of lead-zirconate-titanate (PZT) films to the impact energy sensor (Japanese), J Japan Soc Precision Eng 61(9) 1275-1279 (Sep 1995), 3A407
Control of shifting locomotive operating in excavator-haulage train system (Polish), Arch Gornictwa 40(2) 189-195 (1995), 3T408
Elements of parallel transformation at computer-aided analysis and control of robot-excavator system in the working process of mineral deposits (Polish), Arch Gornictwa 40(2) 177-188 (1995), 3A409
Impedance control approach for flexible joints robot manipulators, Trans Can Soc Mech Eng 19(3) 212-226 (1995), 3A410
Multi-channel pressure sensor using speckle interferometry, Opt Lasers Eng 23(5) 263-275 (1995), 3A411
Position and force control of pneumatic cylinder with ultrasonic PWM valves: First Report - Evaluation of control system by numerical simulation and experiments (Japanese), J Japan Soc Precision Eng 61(9) 1322-1326 (Sep 1995), 3A412
Proposition of an improved differential stereo vision method: Simultaneous measurement of 3D coordinate and inclination of surface, Int J Japan Soc Precision Eng 29(2) 184-185 (Jun 1995), 3T413
Servo system design considering low-stiffness of robot (Japanese), J Japan Soc Precision Eng 61(9) 1332-1336 (Sep 1995), 3A414
Stabilization of a programmed path of a robot with absolutely rigid and elastic members, Mech Solids 30(1) 31-39 (1995), 3A415
Optimal maneuver of a flexible arm by space-time FEM, J Guidance Control Dyn 18(6) 1459-1462 (Dec 1995), 4T366
Matching and clustering: Two steps toward automatic object modeling in computer vision, Int J Robotics Res 14(6) 633-642 (Dec 1995), 4A386
Strain field analysis and sensor design for monitoring machine tool spindle bearing force, Int J Machine Tools Manuf 36(2) 203-216 (Feb 1996), 4A389
Experiments with model-simplified computed-torque manipulator controllers for free-flying robots, J Guidance Control Dyn 18(6) 1386-1391 (Dec 1995), 4A406
Optimal geometric structures of force-torque sensors, Int J Robotics Res 14(6) 560-573 (Dec 1995), 4A407
Representation and matching of feature patterns for robot operation monitoring, Int J Robotics Autom 10(4) 143-151 (1995), 4A408
Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, J Robotic Syst 12(12) 883-893 (Dec 1995), 4A409
Fundamental noise limits for miniature acoustic and vibration sensors, J Vib Acoust 117(4) 405-410 (Oct 1995), 5A114
Use of optimally shaped piezoelectric film sensors in the active control of free field structural radiation - Part 1: Feedforward control, J Vib Acoust 117(3(A)) 311-322 (Jul 1995), 5A281
Trajectory preshaping for of high-speed articulated systems, J Dyn Syst Meas Control 117(3) 304-310 (Sep 1995), 5A330
Vibration control experiment of a slewing flexible beam, J Dyn Syst Meas Control 117(3) 432-435 (Sep 1995), 5A335
Stiffness analysis and control of multi-fingered robot hands, J Dyn Syst Meas Control 117(3) 435-439 (Sep 1995), 5A359
Adaptive control of robot manipulators in constrained motion: Controller design, J Dyn Syst Meas Control 117(3) 320-328 (Sep 1995), 5A370
Fixed-eye direct visual feedback control of planar robots, J Syst Eng 5(4) 239-248 (1995), 5A371
Inverse force and motion control of constrained elastic robots, J Dyn Syst Meas Control 117(3) 374-383 (Sep 1995), 5A372
Mimo and siso self-tuning hybrid position-force control of robotic manipulators, J Robotic Syst 13(1) 41-51 (Jan 1996), 5A373
Parametric motor control: A new approach to the control of point-to-point manipulator movements, J Robotic Syst 13(1) 35-40 (Jan 1996), 5A374
Robust control of robot manipulators including actuator dynamics, J Robotic Syst 13(1) 1-10 (Jan 1996), 5A375
Discrete event control of robotic assembly tasks, J Dyn Syst Meas Control 117(3) 384-393 (Sep 1995), 5A378
Discrete event modeling and trajectory planning of robotic assembly tasks, J Dyn Syst Meas Control 117(3) 394-400 (Sep 1995), 5A379
Adaptive methodology for machine tool error correction, J Eng Indust 117(3) 389-399 (Aug 1995), 5A856
Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7 (VCH Publ, New York, 1994) 6R16
Stable observer-based trajectory controller for asymptotic model matching of a rigid robot, J Optim Theory Appl 87(3) 517-538 (Dec 1995), 6T331
Robust motion tracking controllers for uncertain robot manipulators, J Syst Control Eng 209(I4) 269-280 (1995), 6A364
Robust sliding-mode control applied to a 5-link biped robot, J Intelligent & Robotic Syst 15(1) 67-133 (Jan 1996), 7A427
Application of genetic algorithms to point-to-point motion of redundant manipulators, Mech Machine Theory 31(3) 261-270 (Apr 1996), 7A439
Control of constrained manipulators with flexible joints, Dyn Control 6(1) 33-48 (Jan 1996), 7A440
Control of flexible manipulators via singular perturbations and distributed vibration damping, Dyn Control 6(1) 5-32 (Jan 1996), 7A441
Experiments in contact control, J Robotic Syst 13(2) 53-73 (Feb 1996), 7A442
Fine motion strategies for robotic peg-hole insertion, Proc Inst Mech Eng C 209(C6) 429-448 (1995), 7A443
Independent joint control: Estimation and compensation of coupling and friction effects in robot position control, J Intelligent & Robotic Syst 15(1) 41-51 (Jan 1996), 7A444
Learning control for a class of nonlinear differential-algebraic systems with application to constrained robots, J Robotic Syst 13(3) 141-151 (Mar 1996), 7A445
Method of collision avoidance for 5-axis control machining using 2D configuration space (Japanese), J Japan Soc Precision Eng 62(1) 80-84 (Jan 1996), 7A446

Modeling and fusing uncertain multi-sensory data, J Robotic Syst 13(2) 95-109 (Feb 1996), 7A447
Neural network based adaptive robot controller, J Intelligent & Robotic Syst 15(1) 3-10 (Jan 1996), 7A448
Present and future technique of ultraprecision positioning (Japanese), J Japan Soc Precision Eng 61(12) 1645-1649 (Dec 1995), 7T449
Robot sensors with parallel processing capabilities, Int J Japan Soc Precision Eng 29(3) 201-204 (Sep 1995), 7A450
Sampled-data robot adaptive control with stabilizing compensation, Int J Robotics Res 15(1) 78-91 (Feb 1996), 7A451
Synergistic neural models of a robot sensor for part orientation detection, Proc Inst Mech Eng J Eng Manuf 210(B1) 69-76 (1996), 7A452
Vision resolvability for visually servoed manipulation, J Robotic Syst 13(2) 75-93 (Feb 1996), 7A453
Parameter identification of robot arm with repetitive control, Int J Control 63(2) 225-238 (Jan 1996), 8A268
Attenuation of nonlinearly state-dependent uncertainties: Robust control design and its application to robotic manipulators, Int J Control 63(1) 27-40 (Jan 1996), 8A298
Global performance evaluation of image features for visual servo control, J Robotic Syst 13(4) 243-258 (Apr 1996), 8A302
Adaptive stabilization and tracking control of electrically driven manipulators, J Robotic Syst 13(4) 203-217 (Apr 1996), 8A322
Adaptive control of flexible manipulators carrying large uncertain payloads, J Robotic Syst 13(4) 219-228 (Apr 1996), 8A356
Adaptive motion tracking control of robotic manipulators: Non-regressor based approach, Int J Control 63(1) 41-54 (Jan 1996), 8A360
Gravity compensation technique for an n-legged robot, Proc Inst Mech Eng C 210(C1) 1-14 (1996), 8A361
Time-optimal control of multiple cooperating manipulators with trajectory and motion program constraints, J Robotic Syst 13(4) 229-241 (Apr 1996), 8A362
Sense organs of insect legs and the selection of sensors for agile walking robots, Int J Robotics Res 15(2) 113-127 (Apr 1996), 8A1413
Optimal conditions for the generation system of a saw gas sensor, Arch Acoust 21(1) 85-88 (1996), 9A348
Continuous path control using clothoid curves, Int J Japan Soc Precision Eng 29(4) 331-336 (Dec 1995), 9A396
Time-energy optimal control of articulated systems with geometric path constraints, J Dyn Syst Meas Control 118(1) 139-143 (Mar 1996), 9A431
Autonomous driving of multiple AGVs for FMS by use of SLA (Japanese), J Japan Soc Precision Eng 62(2) 260-264 (Feb 1996), 9A449
Adaptive control of flexible link manipulators using a pseudolink dynamic model, Dyn Control 6(2) 179-198 (Apr 1996), 9A458
Adaptive output regulation of a flexible arm, J Dyn Syst Meas Control 118(1) 167-172 (Mar 1996), 9A459
Application of ultrasonic sensors to robot measurement (Japanese), J Japan Soc Precision Eng 62(3) 373-376 (Mar 1996), 9T460
Modified ARTMAP network, with applications to scheduling of a robot-vision-tracking system, J Dyn Syst Meas Control 118(1) 1-8 (Mar 1996), 9A461
Neural network design with genetic learning for control of a single link flexible manipulator, J Intelligent & Robotic Syst 15(2) 135-151 (Feb 1996), 9A462
Position-force control of robot interacting with dynamic environment in Cartesian space, J Dyn Syst Meas Control 118(1) 187-192 (Mar 1996), 9A463
Synthesizing control systems for multi-dof manipulators, J Syst Control Eng 210(11) 45-50 (1996), 9A464
Theory and implementation of a repetitive robot controller with Cartesian trajectory description, J Dyn Syst Meas Control 118(1) 15-21 (Mar 1996), 9A465
Composite adaptive control with flexible quantity feedback for flexible-link manipulators, J Robotic Syst 13(5) 289-302 (May 1996), 10A485
Control of non-minimum phase singularly perturbed systems with application to flexible-link manipulators, Int J Control 63(4) 679-701 (Mar 1996), 10A486
New results on adaptive impedance control for dexterous manipulators, Int J Robotics Autom 11(1) 1-12 (1996), 10A487
Precise trajectory tracking control of elastic joint manipulator, J Guidance Control Dyn 19(3) 715-718 (Jun 1996), 11T317
Trajectory tracking control for navigation of the inverse pendulum type self-contained mobile robot, Robotics Autonomous Syst 17(1-2) 65-80 (Apr 1996), 11A336
Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, J Intelligent & Robotic Syst 15(3) 263-289 (Mar 1996), 11A384
Approach to robots piloted control by visual sensor in arc welding processes, Mec Appl 40(1) 119-128 (Feb 1995), 11A388
Asymptotically stable robust control of robust manipulators, Mech Machine Theory 31(5) 607-618 (Jul 1996), 11A389
Discrete-time model reference adaptive controller designs for robotic manipulators, Int J Robotics Res 15(3) 280-289 (Jun 1996), 11A390
Hybrid actuator scheme for robust position control of a flexible single-link manipulator, J Robotic Syst 13(6) 359-370 (Jun 1996), 11A391
Linear state feedback regulator for rigid link manipulators, J Intelligent & Robotic Syst 15(3) 291-305 (Mar 1996), 11A392
New approach to robust position-force control of flexible-joint robot manipulators, J Robotic Syst 13(7) 429-444 (Jul 1996), 11A393
Performance of a muscle-like "leaky" pneumatic actuator powered by modulated air pulses, J Robotic Syst 13(6) 379-390 (Jun 1996), 11A394
Static calibration of industrial manipulators: Design of an optical instrumentation and application to SCARA robots, J Robotic Syst 13(7) 445-460 (Jul 1996), 11A395
Matrix of confusion: A classification of robot movement, Proc Inst Mech Eng J Eng Manuf 210(B3) 251-260 (1996), 11A398
Comparison of contact sensor localization abilities during manipulation, Robotics Autonomous Syst 17(4) 217-233 (Jun 1996), 12A433
Parallel processing architecture for sensor-based control of intelligent mobile robots, Robotics Autonomous Syst 17(4) 235-257 (Jun 1996), 12A439
Autonomous generation of reflexion-based robot controller using inductive learning, Robotics Autonomous Syst 17(4) 287-305 (Jun 1996), 12A450
Constraint formulation for invariant hybrid position-force control of robots, J Dyn Syst Meas Control 118(2) 290-298 (Jun 1996), 12A451
Control of flexible manipulator systems, J Syst Control Eng 210(I2) 113-130 (1996), 12A452
Dynamic approach to real-time obstacle avoidance control of redundant manipulators, JSME Int J Ser C 39(2) 317-322 (Jun 1996), 12A453
Mathematical model of a biosensor, J Eng Math 30(3) 321-337 (May 1996), 12A454
Motion-force control of robotic manipulators, J Dyn Syst Meas Control 118(2) 386-389 (Jun 1996), 12A455
Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, J Dyn Syst Meas Control 118(2) 300-308 (Jun 1996), 12A456
New adaptive robot controller taking account of motor dynamics, J Dyn Syst Meas Control 118(2) 390-393 (Jun 1996), 12T457
Variable structure hybrid control of manipulators in unconstrained and constrained motion, J Dyn Syst Meas Control 118(2) 327-332 (Jun 1996), 12A458

206G. Position applications

Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), J Japan Soc Precision Eng 61(7) 964-968 (Jul 1995), 1A428
Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, J Intelligent & Robotic Syst 13(3) 263-278 (1995), 1A429
Robotic assembly of truss beams for large space structures, J Spacecraft Rockets 32(4) 680-685 (Aug 1995), 1A922
Verification tests of automated robotic assembly of space truss structures, J Spacecraft Rockets 32(4) 686-696 (Aug 1995), 1A923
New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, Nondestruct Test Eval 12(3) 181-196 (Aug 1995), 2A318
Path planning for robot manipulators in polyhedral objects environment, J Robotic Syst 12(10) 637-646 (Oct 1995), 2A319
Stabilization of a programmed path of a robot with absolutely rigid and elastic members, Mech Solids 30(1) 31-39 (1995), 3A415
Controlling robot manipulators by dynamic programming, Acta Mech Sinica 11(1) 20-33 (1995), 3A416
Fast computation of the C-space of convex 2D algebraic objects, Int J Robotics Res 14(6) 590-608 (Dec 1995), 4A82
Calibration procedure for a system of two coordinated manipulators, Int J Robotics Autom 10(4) 152-158 (1995), 4A410
New method of discrete trajectory planning for robot manipulators, Int J Robotics Autom 10(4) 123-129 (1995), 4A411
Safety optimizing strategies for local path planning in dynamic environments, Int J Robotics Autom 10(4) 130-142 (1995), 4A1371
Positioning system for mobile robot using LED marks (Japanese), J Japan Soc Precision Eng 61(11) 1579-1583 (Nov 1995), 5A362
Dynamic motion planning using a distributed representation, J Intelligent & Robotic Syst 14(3) 241-261 (Nov 1995), 5A376
Fast collision-free path planning for translating mobiler in 3D space (Japanese), J Japan Soc Precision Eng 61(11) 1545-1549 (Nov 1995), 5A377
Algorithm for computing fingertip positions of a multifingered hand in 3D, JSME Int J Ser C 38(4) 735-742 (Dec 1995), 6A365
Concept of an accuracy of coordinate measuring machines, J Machinery Manuf Reliab 3 58-68 (1995), 6A366
Independent joint control: Estimation and compensation of coupling and friction effects in robot position control, J Intelligent & Robotic Syst 15(1) 41-51 (Jan 1996), 7A444
Cooperative neural field for the path planning of a robot arm, J Intelligent & Robotic Syst 15(1) 11-18 (Jan 1996), 7A454
Optimal trajectory planning for robots under the consideration of stochastic parameters and disturbances, J Intelligent & Robotic Syst 15(1) 19-23 (Jan 1996), 7A455
Piezo-driven 3D positioning mechanism with single-stage structure (Japanese), J Japan Soc Precision Eng 62(1) 130-134 (Jan 1996), 7A456
Shortest paths for a car-like robot to manifolds in configuration space, Int J Robotics Res 15(1) 36-60 (Feb 1996), 7A457
Dual conformance index-based robotic arm placement and adaptation, J Robotic Syst 13(4) 187-202 (Apr 1996), 8A363
Surface polishing with flexible link manipulators, Eur J Mech A 15(1) 137-153 (1996), 8A364
Computation of penetration between smooth convex objects in 3D space, J Robotic Syst 13(5) 303-315 (May 1996), 10A488
Regulation of position error in contouring systems, Int J Machine Tools Manuf 36(6) 713-728 (Jun 1996), 10A489
Set-point robot controller by using only position measurements, Int J Robotics Autom 11(1) 36-40 (1996), 10A490
Fuzzy rule base optimization of a compliant wrist sensor for robotic assembly, J Robotic Syst 13(7) 475-487 (Jul 1996), 11A396
Interference-free insertion of a solid body into a cavity: An algorithm and a medical application, Int J Robotics Res 15(3) 211-229 (Jun 1996), 11A397
Matrix of confusion: A classification of robot movement, Proc Inst Mech Eng J Eng Manuf 210(B3) 251-260 (1996), 11A398
Method of qualitative spatial envisionment with applications to planar mechanism configuration modeling and planning, J Intelligent & Robotic Syst 15(3) 235-262 (Mar 1996), 11A399
Calibration of horizontally articulated robot by rotation angle method (Japanese), J Japan Soc Precision Eng 62(5) 747-751 (May 1996), 12A459
Estimation of geometrical parameters for modular robots, Facta Univ Mech Auto Control Robotic 1(5) 653-661 (1995), 12A460

206H. Assembly applications

Application of mechatronics to vehicle assembly - modular assembly (Japanese), J Japan Soc Precision Eng 61(7) 935-938 (Jul 1995), 1T430
Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, Int J Comput Integrated Manuf 8(5) 381-390 (Oct 1995), 2A286
Symmetry from shape and shape from symmetry, Int J Robotics Res 14(5) 407-424 (Oct 1995), 2A320
Distributed control of maneuvering vehicles for on-orbit assembly, J Guidance Control Dyn 18(5) 1204-1206 (Oct 1995), 3T366
Dynamic point specification approach to sequencing robot moves for PCB assembly, Int J Comput Integrated Manuf 8(5) 448-456 (Dec 1995), 4A420
Discrete event control of robotic assembly tasks, J Dyn Syst Meas Control 117(3) 384-393 (Sep 1995), 5A378
Discrete event modeling and trajectory planning of robotic assembly tasks, J Dyn Syst Meas Control 117(3) 394-400 (Sep 1995), 5A379
Robotic analyses and simulation of automatic control of excavator finish trenching, Heavy Vehicle Syst 2(3-4) 238-255 (1995), 7A406
Integrated design support method for flexible assembly systems, J Manuf Syst 15(1) 13-32 (1996), 7A474
Design of an orthogonal compliance for polygonal peg insertion, J Mech Des 118(1) 106-114 (Mar 1996), 8A368
Virtual wedging in 3D peg insertion tasks, J Mech Des 118(1) 99-105 (Mar 1996), 8A372
Expert system to match robots and to synchronize their operations to pick and place large parts, J Intelligent & Robotic Syst 15(2) 165-179 (Feb 1996), 9A445
Comparison of contact sensor localization abilities during manipulation, Robotics Autonomous Syst 17(4) 217-233 (Jun 1996), 12A433

206I. Miscellaneous applications

Control of a flexible space robot executing a docking manuever, J Guidance Control Dyn 18(4) 756-766 (Aug 1995), 1A426
Task reliability assessment in robotic systems, J Robotic Syst 12(9) 583-598 (Sep 1995), 1A438
Study on plant inspection and diagnosis robot - 1st report: Conceptual design and fuzzy diagnosis of machine failures by sound information (Japanese), J Japan Soc Precision Eng 61(8) 1131-1135 (Aug 1995), 2A321
Task-oriented structural design of manipulators based on operability evaluation (Japanese), J Japan Soc Precision Eng 61(9) 1265-1269 (Sep 1995), 3A417
Robotically assisted munition loading system, J Robotic Syst 12(12) 871-881 (Dec 1995), 4A412
Study on plant inspection and diagnosis robot - 2nd Report: Searching method for the faulty machine based on sound spectrum and fuzzy navigation (Japanese), J Japan Soc Precision Eng 62(2) 205-209 (Feb 1996), 9A466
Evaluating efficiency of self-reconfiguration in a class of modular robots, J Robotic Syst 13(5) 317-338 (May 1996), 10A491
Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, J Guidance Control Dyn 19(3) 671-679 (Jun 1996), 11A325
New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, Int J Robotics Res 15(3) 267-279 (Jun 1996), 11T400
Cooperative manipulation by autonomous intelligent robots, JSME Int J Ser C 39(2) 286-293 (Jun 1996), 12A461

206Y. Computational techniques

Computationally efficient dynamic modelling of robot arms, Bull Polish Acad Sci Tech Sci 43(1) 23-29 (1995), 1A431
Fast algorithm for hidden faces removal with application to animated geometrical modelers, Machine Graphics & Vision 3(4) 635-644 (1994), 1A432
Cell-to-cell mapping method for time-optimal trajectory planning of multiple robot arm systems, J Optim Theory Appl 86(2) 347-368 (Aug 1995), 2A322
Optimal design and sensitivity analysis of flexible robotic manipulators fabricated from advanced composite materials, J Thermoplastic Composite Mat 8(4) 346-364 (Oct 1995), 2A323
Mechanical analysis of high precision manipulator, Model Ident Control 16(4) 233-241 (Oct 1995), 4A400
Stability and sensitivity analysis of the robotic computed torque technique using a regular perturbation approach, Int J Robotics Autom 10(4) 171-177 (1995), 4A413
Algorithm for determining the workspace of a 4R manipulator on the bases of the theory of envelopes, J Machinery Manuf Reliab 2 77-82 (1995), 5T380
Optimization issues in the calibration of a multicomponent robotic dynamometer, J Manuf Syst 15(1) 43-51 (1996), 7A458
Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, J Intelligent & Robotic Syst 15(1) 33-39 (Jan 1996), 7T459
Parameter identification approach using optimal exciting trajectories for a class of industrial robots, J Intelligent & Robotic Syst 15(1) 25-32 (Jan 1996), 7A460
Probabilistic analysis of manipulation tasks: A conceptual framework, Int J Robotics Res 15(1) 1-23 (Feb 1996), 7A461
Study on data processing of a teaching robot with redundant dof (Japanese), J Japan Soc Precision Eng 61(12) 1720-1724 (Dec 1995), 7A462
Collision-free continuous path control of manipulators using genetic algorithms, J Syst Eng 6(1) 20-32 (1996), 8A365
Parallel computational algorithms for the kinematics and dynamics of planar and spatial parallel manipulators, J Dyn Syst Meas Control 118(1) 22-28 (Mar 1996), 9A467
Controller order reduction by using genetic algorithms, J Syst Eng 6(2) 113-118 (1996), 10A429
Efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters, J Robotic Syst 13(5) 261-273 (May 1996), 10A481
Finite element simulation of dynamic responses of piezoelectric actuators, J Sound Vib 191(4) 519-538 (Apr 1996), 10A492
Determination of the workspace of planar parallel manipulators with joint limits, Robotics

Autonomous Syst 17(3) 129-138 (May 1996), 12A443

206Z. Experimental techniques

Human-in-the-loop evaluation of remote manipulator system active damping augmentation, J Guidance Control Dyn 18(4) 689-695 (Aug 1995), 1A395
Experimental control of a single-link flexible arm incorporating electrorheological fluids, J Guidance Control Dyn 18(4) 916-919 (Aug 1995), 1T433
Measurement of pose repeatability of Stewart Platform, J Robotic Syst 12(12) 821-832 (Dec 1995), 4A414
Improvement of the accuracy of a PUMA 560 industrial manipulator by calibration, Proc Inst Mech Eng J Eng Manuf 210(B1) 55-67 (1996), 7A463
Trends of experimental mechanics, J Theor Appl Mech 34(2) 207-233 (1996), 10A844
Surface-micromachined components for articulated microrobots, J Microelectromechanical Syst 5(1) 10-17 (Mar 1996), 11A361
Articulated robot application in end milling of sculptured surface, JSME Int J Ser C 39(2) 308-316 (Jun 1996), 12A462

208. MANUFACTURING

208B. Product and process design

Application of mechatronics for rice milling machines (Japanese), J Japan Soc Precision Eng 61(7) 931-934 (Jul 1995), 1T434
Color drawing on ceramic surface by YAG laser irradiation (Japanese), J Japan Soc Precision Eng 61(7) 1026-1030 (Jul 1995), 1A435
Generation of free-form surface in CAD for dies, Adv Eng Software 22(2) 113-118 (1995), 1A436
Maskless patterning of gold electrical contacts by laser plating in a flowing solution, Int J Japan Soc Precision Eng 29(1) 23-28 (Mar 1995), 1A437
Task reliability assessment in robotic systems, J Robotic Syst 12(9) 583-598 (Sep 1995), 1A438
Studies of super-smooth polishing on aspherical surfaces, Int J Japan Soc Precision Eng 29(1) 1-4 (Mar 1995), 1A739
Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, Int J Comput Integrated Manuf 8(5) 381-390 (Oct 1995), 2A286
Development of core technologics for laser repairing of surface defects of steel billet (Japanese), J Japan Soc Precision Eng 61(8) 1126-1130 (Aug 1995), 2A324
Examination of the quality engineering problems experienced in automotive product transfer, Int J Vehicle Des 16(6) 521-530 (1995), 2T325
Fabrication of high frequency gratings for high temperature, Exp Tech 19(5) 28-29 (Oct 1995), 2A326
Fuzzy expert system for the design of machining operations, Int J Machine Tools Manuf 35(12) 1605-1621 (Dec 1995), 2A327
Novel process planning achitecture for product-based manufacture, Proc Inst Mech Eng J Eng Manuf 209(B4) 267-276 (1995), 2A328
Research developments in rapid prototyping, Proc Inst Mech Eng J Eng Manuf 209(B4) 261-266 (1995), 2T329
Study of simple assembly method for compact optical modules used in telecommincations systems (Japanese), J Japan Soc Precision Eng 61(8) 1141-1145 (Aug 1995), 2A330
Study of the effect of pre-straining on angular distortion in one-pass fillet welding incorporating large deformation theory, Proc Inst Mech Eng J Eng Manuf 209(B5) 401-409 (1995), 2A331
Towards intelligent process control of injection moulding of polymers, Proc Inst Mech Eng J Eng Manuf 209(B5) 357-367 (1995), 2A332
Machine performance monitoring and proactive maintenance in computer-integrated manufacturing: Review and perspective, Int J Comput Integrated Manuf 8(5) 370-380 (Oct 1995), 2A339
Simultaneous evaluation and selection of strategies for loading and controlling machines and material handling system in FMS, Int J Comput Integrated Manuf 8(5) 340-356 (Oct 1995), 2A349
Integrating robustness into multiobjective space vehicle design process, J Guidance Control Dyn 18(5) 1163-1168 (Oct 1995), 3T315
Analysis of a part design procedure, Numer Math 71(4) 465-510 (Oct 1995), 3A418
Simulation of the influence of manufacturing quality on reliability of vias, J Electron Packaging 117(2) 141-146 (Jun 1995), 3A419
Study on the optimization of the cylindrical lapping process for engineering fire-ceramics (Al_2O_3) by the statistical design method, J Mat Processing Tech 52(2-4) 368-385 (Jul 1995), 3A420
Theoretical discussion on swept-volumes of moving solid objects (japanese), J Japan Soc Precision Eng 61(9) 1255-1259 (Sep 1995), 3A421
Development of flexible microgripper (Japanese), J Japan Soc Precision Eng 61(10) 1401-1404 (Oct 1995), 4T415
Plane generation strategies for a knowledge-based automated process planning system, Int J Comput Integrated Manuf 8(5) 399-410 (Dec 1995), 4A416
Precision alignment technique for parts having thin features using measurement feedback iterative method in CAD-CAI environment, Int J Machine Tools Manuf 36(2) 217-227 (Feb 1996), 4A417
Process modeling and formulation for the development of an intelligent set-up planning system, Proc Inst Mech Eng J Eng Manuf 209(B6) 455-467 (1995), 4A418
Re-engineering the product development cycle and future enhancements of the computer integrated environment, Int J Comput Integrated Manuf 8(5) 441-447 (Dec 1995), 4A419
Feature-based modeling approaches for integrated manufacturing: State-of-the-art survey and future research directions, Int J Comput Integrated Manuf 8(5) 411-440 (Dec 1995), 4A421
Minimax production planning in failure-prone manufacturing systems, J Optim Theory Appl 87(2) 269-286 (Nov 1995), 4A422
Case studies on modeling manufacturing processes using artificial neural networks, J Eng Indust 117(3) 412-417 (Aug 1995), 5A381
Error compensation strategy for replication by rapid prototyping, J Eng Indust 117(3) 423-429 (Aug 1995), 5A382
Geometric modeling of manufacturing processes using symbolic and computational conjugate geometry, J Eng Indust 117(3) 288-296 (Aug 1995), 5A383
Three-dimensional surface characterization by 2D autoregressive models, J Trib 117(3) 385-393 (Jul 1995), 5A384
Experience of the application of intelligent control paradigms to real manufacturing processes, J Syst Control Eng 209(I4) 293-308 (1995), 6A367
Global optimization algorithms for chip layout and compaction, Eng Optim 25(2) 131-154 (Oct 1995), 6A368
High-tech production of aircraft engines, Russian Aeronaut 38(1) 47-53 (1995), 6A369
New method for the manufacture of cellulose carbamate, Fibres Textiles in E Europe 1(1) 28-30 (Feb 1993), 6T370
Structure of the precision winding package, Fibres Textiles in E Europe 3(2) 45-48 (Jun 1995), 6A371
Study of the solid modeling techniques adaptive to product modeling, Chinese J Aeronaut 8(1) 17-21 (Feb 1995), 6T372
Automated rework of printed circuit board assemblies: Methods and procedures, Int J Comput Integrated Manuf 9(1) 48-60 (Feb 1996), 7T464
Conformability analysis in support of design for quality, Proc Inst Mech Eng J Eng Manuf 210(B1) 37-47 (1996), 7A465
Designing for quality: An integrated approach for simultaneous quality engineering, Proc Inst Mech Eng J Eng Manuf 210(B1) 1-10 (1996), 7A466
Fuzzy multicriteria decision-making method for material selection, J Manuf Syst 15(1) 1-12 (1996), 7A467
Linearization technique in robust nonlinear H ∞ control, Syst Control Lett 27(1) 21-27 (Jan 1996), 7A468
LQG optimal scalar static output feedback, Syst Control Lett 27(1) 9-19 (Jan 1996), 7T469
Structure merging as a key operation to assemble parametric models, Int J Japan Soc Precision Eng 29(3) 271-272 (Sep 1995), 7T470
Integrated design support method for flexible assembly systems, J Manuf Syst 15(1) 13-32 (1996), 7A474
Manufacturing model for 3D irregular pultruded graphite-epoxy composites, Composites Part A Appl Sci and Manuf 27A(3) 201-210 (1996), 7A563
Automated manufacture of prepreg broadgoods components: A review of literature, Composites Part A Appl Sci and Manuf 27A(3) 211-217 (1996), 7A575
Analysis of die designs for the stamping of an automobile rear floor panel, J Mat Processing Tech 55(3-4) 408-416 (Dec 1995), 7A728
Automating the manufacture of composite broadgoods, Composites Part A Appl Sci and Manuf 27A(3) 191-200 (1996), 7A759
Prediction of resources of materials of machine and construction elements in the process of manufacture and exploitation, J Mat Processing Tech 55(3-4) 292-295 (Dec 1995), 7A810
Automatic construction of CSG solids from a single isometric drawing, Int J Comput Integrated Manuf 9(1) 1-21 (Feb 1996), 7A1016
Parametric design and NC code generation of countersink cutting tools, Int J Comput Integrated Manuf 9(2) 105-112 (Apr 1996), 8A366
Process planning with genetic algorithms on results of knowledge-based reasoning, Int J Comput Integrated Manuf 9(2) 145-166 (Apr 1996), 8A367
Developing key components and products in Taiwan, Int J Vehicle Des 17(2) 125-138 (1996), 8T374
Reorganizing for product development: Honda's case, Int J Vehicle Des 17(2) 109-124 (1996), 8T376
Optimal choice of a variant of a technological product, J Machinery Manuf Reliab 5 1-5 (1995), 9T468
Study for representation and application about design and manufacturing communication model (2nd Report) -Integrated model for design and manufacturing activity- (Japanese), J Japan Soc Precision Eng 62(3) 388-392 (Mar 1996), 9T469
Flexible pharmaceutical powder production, Int J Comput Integrated Manuf 9(3) 227-233 (Jun 1996), 10A493
Process re-engineering provides the impetus for accelerating change, Proc Inst Mech Eng J Eng Manuf 210(B2) 101-107 (1996), 10T494
Short-term levelling analysis of regularized sliver, Fibres Textiles in E Europe 3(4) 26-28 (Dec 1995), 10T495
Comparison of the bionic, fractal and holonic manufacturing system concepts, Int J Comput Integrated Manuf 9(3) 217-226 (Jun 1996), 10A499
Process model for air bending, J Mat Processing Tech 57(1-2) 48-54 (Feb 1996), 10A698
Plasma treatment of wool: From lab curiosity to industrial reality, Fibres Textiles in E Europe 3(4) 45-49 (Dec 1995), 10A722
Assuring the matchable degree in selective assembly via a predictive model based on set theory and probability method, J Manuf Sci Eng 118(2) 252-258 (May 1996), 11A401
Barriers to energy in vehicle design, Int J Vehicle Des 17(3) 240-246 (1996), 11A1279
Design of automobile exhaust system using top-down approach design methodology, Int J Vehicle Des 17(3) 276-294 (1996), 11A1280
Implications of arrow's impossibility theorem on approaches to optimal engineering design, J Mech Des 118(2) 161-164 (Jun 1996), 12A463
Special Issue on Applications of Neural Networks in Process Engineering and System Dynamics, J Syst Eng 6(3) 128-222 (1996), 12A464
Heterarchical control of highly distributed manufacturing systems, Int J Comput Integrated Manuf 9(4) 270-281 (Aug 1996), 12A467
Wave technology in machinery manufacture, J Machinery Manuf Reliab 1 68-73 (1996), 12A471
International Conference on Advances in Materials and Processing Technologies held at Dublin City University, Dublin, Ireland in August 1993, J Mat Processing Tech 56(1-4) 1-978 (Jan 1996), 12A671
Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, J Mat Processing Tech 60(1-4) 1-734 (Jun 1996), 12A674

208E. Systems design, integration, and control

Modeling, simulation, and control of robots and robotized FMS, Facts Series Mech Auto Control Robotic 1(3) 241-280 (1993), 1A424
Automation of skilled work by mechatronics system (Japanese), J Japan Soc Precision Eng 61(7) 923-926 (Jul 1995), 1T439
Comparision of AI and DAI based planning techniques for automated manufacturing systems, J Intelligent & Robotic Syst 13(3) 201-245 (1995), 1A440
Development of an endless multi-wire diamond saw (Japanese), J Japan Soc Precision Eng 61(7) 1031-1032 (Jul 1995), 1T441
Efficient schedules for simulated annealing, Eng Optim 24(3) 161-176 (Jul 1995), 1A442
ICPR '93: 12th international conference on production research, J Mat Processing Tech 52(1) 1-191 (May 1995), 1A443
Inspection and repair strategy in automated assembly systems (Japanese), J Japan Soc Precision Eng 61(7) 949-953 (Jul 1995), 1A444
Evaluation of uncertainty in form measurement (Japanese), J Japan Soc Precision Eng 61(8) 1054-1058 (Aug 1995), 2T54
Symmetry from shape and shape from symmetry, Int J Robotics Res 14(5) 407-424 (Oct 1995), 2A320
Examination of the quality engineering problems experienced in automotive product transfer, Int J Vehicle Des 16(6) 521-530 (1995), 2T325
Application of object - oriented design concepts in CIM systems layout, Int J Comput Integrated Manuf 8(5) 315-326 (Oct 1995), 2A333
Assessment of cylindricity and related features for crank shaft by 3D form measurement - 2nd report: Assessment of related features (Japanese), J Japan Soc Precision Eng 61(8) 1111-1115 (Aug 1995), 2A334
Conceptual framework for shopfloor production activity control, Int J Comput Integrated Manuf 8(5) 357-369 (Oct 1995), 2A335
Data analysis and form evaluation for CMM (Japanese), J Japan Soc Precision Eng 61(8) 1069-1072 (Aug 1995), 2T336
Development of precision feed mechanism by applying principle of walking drive - 2nd report: Development of feed velocity control method and ultraprecision positioning system (Japanese), J Japan Soc Precision Eng 61(8) 1106-1110 (Aug 1995), 2A337
Jacobian matrix for a flexible manipulator, J Robotic Syst 12(11) 709-726 (Nov 1995), 2A338
Machine performance monitoring and proactive maintenance in computer-integrated manufacturing: Review and perspective, Int J Comput Integrated Manuf 8(5) 370-380 (Oct 1995), 2A339
Modeling and simulation of the operational and information processing functions of a computer-integrated manufacturing cell, Proc Inst Mech Eng J Eng Manuf 209(B4) 245-259 (1995), 2T340
New approach to tolerance allocation in design cost analysis, Eng Optim 24(4) 283-291 (Aug 1995), 2A341
Optical fiber sensing technique for edge-induced and internal delamination detection in composites, Smart Mat Struct 4(3) 164-169 (Sep 1995), 2A342
Profile measurement using software datums (Japanese), J Japan Soc Precision Eng 61(8) 1059-1063 (Aug 1995), 2T343
Reducing flexible base vibrations through local redundancy resolution, J Robotic Syst 12(11) 767-779 (Nov 1995), 2A344
Repair learning for a working knowledge-based system, Proc Inst Mech Eng J Eng Manuf 209(B4) 287-294 (1995), 2A345
Robust control of a manipulator performing constrained motion with uncertainties in the constraint functions, J Robotic Syst 12(11) 747-755 (Nov 1995), 2A346
Robust performance variable structure PI-P control design for high precise positioning control systems, Int J Machine Tools Manuf 35(12) 1649-1667 (Dec 1995), 2A347
Shop floor controller class for computer - integrated manufacturing, Int J Comput Integrated Manuf 8(5) 327-339 (Oct 1995), 2A348
Simultaneous evaluation and selection of strategies for loading and controlling machines and material handling system in FMS, Int J Comput Integrated Manuf 8(5) 340-356 (Oct 1995), 2A349
Software for profile measurements (Japanese), J Japan Soc Precision Eng 61(8) 1049-1053 (Aug 1995), 2T350
Assessment and data processing on surface roughness instruments (Japanese), J Japan Soc Precision Eng 61(8) 1077-1081 (Aug 1995), 2T713
Data processing and profile evaluation on roundness and cylindricity measuring instruments (Japanese), J Japan Soc Precision Eng 61(8) 1073-1076 (Aug 1995), 2T714
Fillet weld profile measurements, Exp Tech 19(5) 21-24 (Oct 1995), 2T835
Murphy's integrated circuit yield integral, J Electron Packaging 117(2) 159-164 (Jun 1995), 3A422
Robotically assisted munition loading system, J Robotic Syst 12(12) 871-881 (Dec 1995), 4A412
Re-engineering the product development cycle and future enhancements of the computer integrated environment, Int J Comput Integrated Manuf 8(5) 441-447 (Dec 1995), 4A419
Dynamic point specification approach to sequencing robot moves for PCB assembly, Int J Comput Integrated Manuf 8(5) 448-456 (Dec 1995), 4A420
Feature-based modeling approaches for integrated manufacturing: State-of-the-art survey and future research directions, Int J Comput Integrated Manuf 8(5) 411-440 (Dec 1995), 4A421
Minimax production planning in failure-prone manufacturing systems, J Optim Theory Appl 87(2) 269-286 (Nov 1995), 4A422
Modeling flexible sheets for automatic handling and lay-up of composite components, Proc Inst Mech Eng J Eng Manuf 209(B6) 423-432 (1995), 4T423
Monitoring and control of a retail food container filling machine, Proc Inst Mech Eng E 209(E2) 101-115 (1995), 4A424
Direct contour mapping system with pattern recognizing faculties (Japanese), J Japan Soc Precision Eng 61(11) 1629-1633 (Nov 1995), 5A341
In-process control of surface roughness due to tool wear using a new ultrasonic system, Int J Machine Tools Manuf 36(3) 411-422 (Mar 1996), 5A357
Infrared sensing for on-line weld geometry monitoring and control, J Eng Indust 117(3) 323-330 (Aug 1995), 5A385
Polychromatic light interferometer for high-accuracy positioning, Opt Lasers Eng 24(1) 43-56 (1996), 5A386
Surface characterization of polished molds and dies (Japanese), J Japan Soc Precision Eng 61(11) 1529-1532 (Nov 1995), 5T387
Experience of the application of intelligent control paradigms to real manufacturing processes, J Syst Control Eng 209(I4) 293-308 (1995), 6A367
Automatic color control during mass coloration of melt spun fibers, Fibres Textiles in E Europe 2(3) 43-45 (Sep 1994), 6T373
Criteria of dynamic quality control of linear textile products in terms of their technological useability, Fibres Textiles in E Europe 2(1) 22-24 (Feb 1994), 6T374

Curvature sensing: A new concept in tracing technology, J Mat Processing Tech 54(1-4) 218-223 (Oct 1995), 6A375
Thin and deep hole drilling using a fuzzy discrete sliding mode control with a woodpeckering strategy, J Syst Control Eng 209(I4) 281-292 (1995), 6A579
Optimization issues in the calibration of a multicomponent robotic dynamometer, J Manuf Syst 15(1) 43-51 (1996), 7A458
Automated rework of printed circuit board assemblies: Methods and procedures, Int J Comput Integrated Manuf 9(1) 48-60 (Feb 1996), 7T464
Fuzzy logic based approach for Pokayoke stoplight control in unmanned manufacturing cells, J Manuf Syst 15(1) 33-42 (1996), 7A471
Information design for SAIL 1, Int J Comput Integrated Manuf 9(1) 22-31 (Feb 1996), 7A472
Integrated design strategy for future manufacturing systems, J Manuf Syst 15(1) 52-61 (1996), 7T473
Integrated design support method for flexible assembly systems, J Manuf Syst 15(1) 13-32 (1996), 7A474
Integrated object-oriented Petri net paradigm for manufacturing control systems, Int J Comput Integrated Manuf 9(1) 73-87 (Feb 1996), 7A475
Life test of ceramic ball bearings by staircase method, Int J Japan Soc Precision Eng 29(3) 259-260 (Sep 1995), 7T476
Machine parts visual inspection system using fuzzy-neural network (Japanese), J Japan Soc Precision Eng 61(12) 1681-1685 (Dec 1995), 7A477
Methodology to develop EXPRESS data models, Int J Comput Integrated Manuf 9(1) 61-72 (Feb 1996), 7T478
Minimum zone evaluation of circles and cylinders, Int J Machine Tools Manuf 36(4) 435-451 (Apr 1996), 7A479
Monitoring of friction welded joint performance using bonding evaluation factor, Int J Japan Soc Precision Eng 29(3) 205-210 (Sep 1995), 7T480
New trends in manufacturing systems (Japanese), J Japan Soc Precision Eng 62(1) 13-18 (Jan 1996), 7T481
On-line process control based on geometrical parameters from measured data in machining process (Japanese), J Japan Soc Precision Eng 61(12) 1710-1714 (Dec 1995), 7A482
Precision engineering, its past and future (Japanese), J Japan Soc Precision Eng 62(1) 5-12 (Jan 1996), 7T483
Profile measurement with no standard: Verification experiment for profile measurement along a circle (Japanese), J Japan Soc Precision Eng 61(12) 1700-1704 (Dec 1995), 7A484
Secular changes in accuracy of an adhesive-bonded structure vertical milling machine, Int J Japan Soc Precision Eng 29(3) 243-244 (Sep 1995), 7A485
Simple method to calculate the variance of operational ratio in automatic production lines (Japanese), J Japan Soc Precision Eng 61(12) 1686-1689 (Dec 1995), 7A486
Towards a manufacturing metamodel, Int J Comput Integrated Manuf 9(1) 32-47 (Feb 1996), 7A487
Recycling of composite materials, J Mat Processing Tech 55(3-4) 448-456 (Dec 1995), 7A588
Application of grey predictor and fuzzy speed regulator in controlling a retrofitted machining table, Int J Machine Tools Manuf 36(4) 477-489 (Apr 1996), 7T735
Study on CAM system for 5-axis controlled machining center: Efficient collision check and collision avoidance (Japanese), J Japan Soc Precision Eng 61(12) 1745-1749 (Dec 1995), 7A747
Design of an orthogonal compliance for polygonal peg insertion, J Mech Des 118(1) 106-114 (Mar 1996), 8A368
Integration of quality control and shop floor control, Int J Comput Integrated Manuf 9(2) 113-130 (Apr 1996), 8T369
Reactive scheduling system for cellular manufacturing with failure-prone machines, Int J Comput Integrated Manuf 9(2) 131-144 (Apr 1996), 8T370
Temporal database with data dependencies: A key to computer integrated manufacturing, Int J Comput Integrated Manuf 9(2) 89-104 (Apr 1996), 8A371
Virtual wedging in 3D peg insertion tasks, J Mech Des 118(1) 99-105 (Mar 1996), 8A372
ISO 9000 series registration to European quality awards status: The key actions, Int J Vehicle Des 17(1) 13-26 (1996), 8T375
Measurement and analysis of the 3D form of curved surfaces, Int J Machine Tools Manuf 36(5) 597-610 (May 1996), 8A704
Modified ARTMAP network, with applications to scheduling of a robot-vision-tracking system, J Dyn Syst Meas Control 118(1) 1-8 (Mar 1996), 9A461
Application of a laser-beam sensor to pipe inspection (Japanese), J Japan Soc Precision Eng 62(3) 363-367 (Mar 1996), 9T871
Multilayer eddy current micro sensor for nondestructive inspection of small diameter pipes (Japanese), J Japan Soc Precision Eng 62(3) 359-362 (Mar 1996), 9T874
Ultra-reliable board identification system, J Manuf Syst 15(2) 84-94 (1996), 10T475
Flexible pharmaceutical powder production, Int J Comput Integrated Manuf 9(3) 227-233 (Jun 1996), 10A493
Accuracy enhancement of a horizontal machining center by real-time error compensation, J Manuf Syst 15(2) 113-124 (1996), 10A496
Algorithms for the minimization of setups and tool changes in "simply fixturable" components in milling, J Manuf Syst 15(2) 95-112 (1996), 10A497
Applying kaizen and automation to process reengineering, J Manuf Syst 15(2) 125-132 (1996), 10A498
Comparison of the bionic, fractal and holonic manufacturing system concepts, Int J Comput Integrated Manuf 9(3) 217-226 (Jun 1996), 10A499
Dss-theory-based hybrid supervisory control system for manufacturing systems, J Manuf Syst 15(2) 71-83 (1996), 10A500
Development of a knowledge-based system for balancing complex mixed model assembly lines, Int J Comput Integrated Manuf 9(3) 205-216 (Jun 1996), 10A501
Dynamics and trackability of stylus systems, Proc Inst Mech Eng J Eng Manuf 210(B2) 159-165 (1996), 10A502
Framework for modeling the coincident flow of workpieces and cutting tools, Proc Inst Mech Eng J Eng Manuf 210(B2) 167-176 (1996), 10A503
Integrating information and material flow executable models, an SDL-based information flow modeling tool, Int J Comput Integrated Manuf 9(3) 234-248 (Jun 1996), 10A504
Multiobjective optimization design methodology for incorporating manufacturing uncertainties in advanced composite structures, Eng Optim 25(4) 309-323 (Mar 1996), 10A505
Optimization of the manufacturing process of a titanium aluminide metal matrix composite using a viscoplastic constitutive theory, J Eng Mat Tech 118(2) 235-240 (Apr 1996), 10A506
Overview of Kanban systems, Int J Comput Integrated Manuf 9(3) 169-189 (Jun 1996), 10A507
Reverse engineering physical models employing wrap-around B-splines surfaces and quadrics, Proc Inst Mech Eng J Eng Manuf 210(B2) 147-157 (1996), 10A508
Theory and development of computer integrated manufacturing systems, J Machinery Manuf Reliab 6 55-60 (1995), 10A509
Computer-aided optimal turning of stepped shaft, J Mat Processing Tech 57(1-2) 38-47 (Feb 1996), 10A711
Problem of optimal order placing for component articles, Russian Aeronaut 38(3) 64-68 (1995), 11A402
Simulation of automated manufacturing systems, Mech Machine Theory 31(5) 691-704 (Jul 1996), 11A403
Tolerance stack analysis for assembly, Proc Inst Mech Eng J Eng Manuf 210(B3) 279-288 (1996), 11A404
Maintenance of a commercial fusion power station and its implications for safety, Fusion Eng Des 31(1) 29-39 (Apr 1996), 11T1474
Model based statistical process control for continuous systems, J Dyn Syst Meas Control 118(2) 283-289 (Jun 1996), 12A418
Analysis of computer-aided facility layout techniques, Int J Comput Integrated Manuf 9(4) 260-264 (Aug 1996), 12T465
Avoiding human error in CIM implementations, Int J Comput Integrated Manuf 9(4) 265-269 (Aug 1996), 12T466
Heterarchical control of highly distributed manufacturing systems, Int J Comput Integrated Manuf 9(4) 270-281 (Aug 1996), 12A467
Information model of cutting tools for machining center in tool assembly: Representing models of parts structure, assembly, nominal size, and real size (Japanese), J Japan Soc Precision Eng 62(5) 717-721 (May 1996), 12T468
Study on torque, axial tension and bending moment in the screw tightening - First Report: Relation between torque on fitted portion of threads and axial tension (Japanese), J Japan Soc Precision Eng 62(5) 696-700 (May 1996), 12A469
System configuration: Concurrent subsystem embodiment and system synthesis, J Mech Des 118(2) 165-170 (Jun 1996), 12A470
Wave technology in machinery manufacture, J Machinery Manuf Reliab 1 68-73 (1996), 12A471
Agile design procedure for a line production system in a versatile market environment, Int J Comput Integrated Manuf 9(4) 299-305 (Aug 1996), 12T472
Disjunctive constraints for manufacturing scheduling: Principles and extensions, Int J Comput Integrated Manuf 9(4) 306-310 (Aug 1996), 12T473
Hierarchical production policies in stochastic two-machine flowshops with finite buffers, J Optim Theory Appl 89(3) 681-712 (Jun 1996), 12T475
Integrative model for automatic warehousing systems, Int J Comput Integrated Manuf 9(4) 286-292 (Aug 1996), 12A476
Management of an assembly line: An investigation of product mix using simulation, Int J Comput Integrated Manuf 9(4) 282-285 (Aug 1996), 12A477
General tolerancing in design object modeling (Japanese), J Japan Soc Precision Eng 62(5) 706-711 (May 1996), 12A836

208H. Management and economics

Mechatronics supporting automation of manufacturing (Japanese), J Japan Soc Precision Eng 61(7) 913-914 (Jul 1995), 1T445
Technical report: European company examples of excellent quality management, Int J Vehicle Des 16(6) 594-599 (1995), 2T351
Technology management: A process approach, Proc Inst Mech Eng J Eng Manuf 209(B5) 347-356 (1995), 2A352
Determination and verification of the residual life of industrial structures subjected to long-term exploitation, J Machinery Manuf Reliab 1 3-9 (1995), 3A423
Risk analysis methodology for corporate management options, Proc JSCE 522(VI-28) 177-186 (Sep 1995), 4A425
Advanced manufacturing technology strategy: A managerial perspective, Int J Vehicle Des 17(2) 139-146 (1996), 8A373
Developing key components and products in Taiwan, Int J Vehicle Des 17(2) 125-138 (1996), 8T374
ISO 9000 series registration to European quality awards status: The key actions, Int J Vehicle Des 17(1) 13-26 (1996), 8T375
Reorganizing for product development: Honda's case, Int J Vehicle Des 17(2) 109-124 (1996), 8T376
Modeling of coal mines energy-consuming technological processes, Arch Gornictwa 40(4) 529-544 (1995), 9A470
Overview of Kanban systems, Int J Comput Integrated Manuf 9(3) 169-189 (Jun 1996), 10A507
Development of an integrated cost estimation system, Int J Comput Integrated Manuf 9(3) 190-204 (Jun 1996), 10T510
Business strategy and the role of engineering product data management: A literature review and summary of the emerging research questions, Proc Inst Mech Eng J Eng Manuf 210(B3) 207-220 (1996), 11T405
Avoiding human error in CIM implementations, Int J Comput Integrated Manuf 9(4) 265-269 (Aug 1996), 12T466
Agile design procedure for a line production system in a versatile market environment, Int J Comput Integrated Manuf 9(4) 299-305 (Aug 1996), 12T472
Disjunctive constraints for manufacturing scheduling: Principles and extensions, Int J Comput Integrated Manuf 9(4) 306-310 (Aug 1996), 12T473
Engineering data control for bid and order handling in the capital plant industry, Int J Comput Integrated Manuf 9(4) 327-338 (Aug 1996), 12T474
Hierarchical production policies in stochastic two-machine flowshops with finite buffers, J Optim Theory Appl 89(3) 681-712 (Jun 1996), 12T475
Integrative model for automatic warehousing systems, Int J Comput Integrated Manuf 9(4) 286-292 (Aug 1996), 12A476
Management of an assembly line: An investigation of product mix using simulation, Int J Comput Integrated Manuf 9(4) 282-285 (Aug 1996), 12A477

IV. MECHANICS OF SOLIDS

250. ELASTICITY

250A. General theory

Constitutive Equations for Engineering Materials Volume 1: Elasticity and Modeling (Elsevier, New York, 1994) 1R14
Nature of configurational forces, Arch Rational Mech Anal 131(1) 67-100 (1995), 1A4
Deformations with constant modified stretches describing the bending of rectangular blocks, Quart J Mech Appl Math 48(3) 375-387 (Aug 1995), 1A446
Influence of mobility of dissolved hydrogen on the elastic response of a metal, J Mech Phys Solids 43(9) 1385-1407 (Sep 1995), 1A447
Integral-gradient formulae for structural deformations, Arch Rational Mech Anal 131(2) 121-138 (1995), 1T448
Micromechanical modeling of tensile response of elastic-brittle materials, Int J Solids Struct 32(22) 3359-3372 (Nov 1995), 1A449
Necessary and sufficient conditions for isotropic rank-one convex functions in dimension 2, J Elast 39(1) 31-46 (Apr 1995), 1A450
Representation of the elasticity tensor for isotropic materials, J Elast 39(2) 175-180 (May 1995), 1T451
Representation theorem for linear, isotropic tensor functions, J Elast 39(2) 181-185 (May 1995), 1T452
Unconventional approach to linear elasticity, Arch Mech 47(2) 149-171 (1995), 1A453
Unified explicit basis-free expressions for time rate and conjugate stress of an arbitrary Hill's strain, Int J Solids Struct 32(22) 3327-3340 (Nov 1995), 1A454
Green's Functions in Applied Mechanics - Topics in Eng Vol 27 (Comput Mech, Billerica MA, 1995) 2R20
Colonnotti's minimum principle extension to generally nonlinear materials, Int J Solids Struct 33(1) 121-144 (Jan 1996), 2A2
Asymptotic behavior of solutions of a generalized Boussinesq type equation, Nonlinear Anal 25(11) 1147-1158 (Dec 1995), 2T353
Compatibility conditions for the Cauchy-Green strain fields: Solutions for the plane case, J Elast 39(3) 247-264 (Jun 1995), 2A354
Localization analysis via a geometrical method, Int J Solids Struct 33(1) 99-119 (Jan 1996), 2A355
Mohr's Arbeloa, Meccanica 30(4) 417-424 (Aug 1995), 2T356
Three-dimensional isodyne stress analysis: Present state, trends, theoretical problems, Acta Mech Sinica 11(2) 97-121 (1995), 3A424
Saint-Venant's principle in linear thermoelasticity, J Thermal Stresses 18(5) 485-496 (Oct 1995), 3A1167
Thermal stresses in microstretch elastic cylinders, J Thermal Stresses 18(5) 537-550 (Oct 1995), 3A1168
Integral equations of the first kind in plane elasticity, Quart Appl Math 53(4) 783-793 (Dec 1995), 4A426
Statically admissible stress fields for a plane masonry-like structure, Quart Appl Math 53(4) 731-751 (Dec 1995), 4A430
Effective elastic moduli of a soft medium with hard polygonal inclusions and extremal behavior of effective Poisson's ratio, J Elast 40(1) 45-73 (Jul 1995), 4A435
Unstable propagation of a phase transition in a solid, Mech Mat 21(4) 313-323 (Nov 1995), 4A1322
Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 1: Theory, Acta Mech 113(1-4) 21-35 (1995), 5A388
Internal work in generalized hyperelastic materials, Meccanica 30(6) 727-734 (Dec 1995), 5A389
Properties of eigenfunction expansion form for the rigid line problem in dissimilar media, Int J Solids Struct 33(5) 611-628 (Feb 1996), 5A390
Completed Beltrami-Michell formulation for analyzing mixed boundary value problems in elasticity, AIAA J 34(1) 143-148 (Jan 1996), 6A376
Decay of end-effects due to self-equilibrated loads, J Elast 41(1) 73-76 (Oct 1995), 6A377
Invariant characteristic representations for classical and micropolar anisotropic elasticity tensors, J Elast 40(3) 239-265 (Sep 1995), 6A378
Purely elastic instabilities in viscometric flows, Annu Rev Fluid Mech 28 129-185 (1996), 6A380
Improved bounds for the elastic moduli of perfectly-random composites, J Elast 41(1) 1-12 (Oct 1995), 6A414
Boundary integral equations for inverse problems in the elasticity theory, J Elast 41(3) 151-160 (Dec 1995), 7A52
Hamilton-Ostrogradsky principle in nonlinear theory of elasticity under mixed approach (Russian), Prikl Mekh (Appl Mech) 31(4) 55-58 (1995), 7A488
Single-phase energy minimizers for materials with nonlocal spatial dependence, Quart Appl Math 54(1) 161-195 (Mar 1996), 7A489
Stressed state and efficient elastic modules of the medium reinforced by periodically distributed spheroidal incorporations (Russian), Prikl Mekh (Appl Mech) 31(3) 32-39 (1995), 7A490
Third boundary-value problem in plane strain, Quart J Mech Appl Math 49(1) 137-145 (Feb 1996), 7A491
Universal solutions for totally inextensible isotropic elastic materials, Quart J Mech Appl Math 49(1) 147-162 (Feb 1996), 7A492
Surface-impedance tensors of transversely isotropic elastic materials, Quart J Mech Appl Math 49(1) 29-48 (Feb 1996), 7A511
Biharmonic Problem in the Theory of Elasticity (Gordon and Breach, New York, 1995) 8R7
Strength and Fracture of Engineering Solids, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 8N21
Fast transient dynamic plane stress analysis of orthotropic Hill-type solids at finite elastoplastic strains, Int J Solids Struct 33(11) 1543-1562 (May 1996), 8A377
Morphologically representative pattern-based bounding in elasticity, J Mech Phys Solids 44(3) 307-331 (Mar 1996), 8A378

Elasticity and Geomechanics (Cambridge UP, New York, 1996) 9R9
Boundary element method-based pattern search solution for a class of inverse elastostatic problems, Int J Solids Struct 33(15) 2123-2131 (Jun 1996), 9A100
Stability and bifurcation of homogeneous deformations of a compressible elastic body under pressure load, Math Mech Solids 1(1) 57-72 (Mar 1996), 9A471
Nonuniqueness theorem for an inverse boundary value problem in elasticity, SIAM J Appl Math 56(2) 602-610 (Apr 1996), 9A487
Complete systems of doublo- and triple-periodical frequency solutions and equations of the elasticity theory in spherical coordinates, Prikl Mekh (Appl Mech) 31(8) 29-34 (1995), 9A523
Main Polish historical and modern sources on applied mechanics, Appl Mech Rev 49(8) 401-432 (Aug 1996), 10A2
Mechanistic model for boundary sliding controlled optimal superplastic flow - I: Theory, J Mat Processing Manuf Sci 4(2) 105-116 (Oct 1995), 10A511
Mechanistic model for boundary sliding controlled optimal superplastic flow - II: Experimental verification, J Mat Processing Manuf Sci 4(2) 117-161 (Oct 1995), 10A512
Properly invariant theory of infinitesimal deformations of an elastic Cosserat point, Z Angew Math Phys 47(2) 179-193 (Mar 1996), 10A513
Elasticity tensor of a transversely isotropic hyperelastic material with residual stress, J Elast 42(2) 115-132 (Feb 1996), 11A406
Hyperelasticity with internal constraints, J Elast 42(1) 91-98 (Jan 1996), 11A407
Metallic bond: Elastic properties, Acta Mat 44(6) 2495-2504 (Jun 1996), 11A408
Micromechanical modeling of anisotropic nonlinear elasticity of granular medium, Int J Solids Struct 33(18) 2591-2607 (Jul 1996), 11A409
Saint-Venant's principle and the anti-plane elastic wedge, J Strain Anal Eng Des 31(3) 231-242 (May 1996), 11A410
Transformations and equation reductions in finite elasticity - I: Plane strain deformations, Math Mech Solids 1(2) 155-175 (Jun 1996), 11A418
Transformations and equation reductions in finite elasticity - II: Plane stress and axially symmetric deformations, Math Mech Solids 1(2) 177-192 (Jun 1996), 11A419
Universal relations in constrained elasticity, Math Mech Solids 1(2) 207-217 (Jun 1996), 11A420
Energy and Finite Element Methods in Structural Mechanics, SI Units Edition (Taylor & Francis, PA, 1995) 12N2
Faults in the stress analysis of power-hardening materials with pseudo-stress function method, J Appl Mech 63(2) 554-555 (Jun 1996), 12T478
Lie group and invariant solutions of the plano-strain equations of motion of a neo-Hookean solid, Int J Non-Linear Mech 31(4) 465-482 (Jul 1996), 12A479
Nonlinear multi-domain stress analysis method for surface-mount solder joints, J Electron Packaging 118(2) 72-79 (Jun 1996), 12A480
Overall elastic energy of polycrystalline martensitic solids, J Mech Phys Solids 44(7) 1051-1101 (Jul 1996), 12A481
Traveling waves in a relaxation system, Int J Eng Sci 34(7) 761-768 (May 1996), 12A482

250B. Linear theory

Exact solution of the plane elasticity second basic problem for the symmetric airfoil cracks, Mech Res Commun 22(5) 447-451 (Oct 1995), 2T357
Saint-Venant's principle for linear elastic porous materials, J Elast 39(3) 265-271 (Jun 1995), 2A358
Torsion of cylindrically anisotropic 2D inhomogeneous solids of revolution, J Appl Math Mech 59(2) 241-247 (1995), 2A359
Constitutive equations for isotropic multimodulus media: Quasilinear relations, Mech Solids 30(1) 67-72 (1995), 3A3
Stress analysis of a stepped shaft under remote torsion, Quart J Mech Appl Math 48(4) 517-530 (Nov 1995), 3A425
Second-order perturbation method for the stress analysis of solids with slightly wavy or irregular surfaces, JSME Int J Ser A 38(4) 433-439 (Oct 1995), 3A444
Dynamic surface solutions in linear elasticity and viscoelasticity with frictional boundary conditions, J Vib Acoust 117(4) 445-451 (Oct 1995), 5A391
Interaction between a penny-shaped crack and a spherical inclusion under torsion, Z Angew Math Phys 46(6) 932-945 (Nov 1995), 5A414
Strength and Fracture of Engineering Solids, Second Edition (Prentice-Hall, Englewood Cliffs NJ, 1996) 6R17
Decay estimates for solutions of linear elasticity for anisotropic media, Math Methods Appl Sci 19(1) 15-31 (Jan 1996), 6A379
Purely elastic instabilities in viscometric flows, Annu Rev Fluid Mech 28 129-185 (1996), 6A380
Mechanics of Materials (Wiley, New York, 1996) 7N17
Biharmonic Problem in the Theory of Elasticity (Gordon and Breach, New York, 1995) 8R7
Existence and uniqueness of solutions by the covering domain method in linear elastostatics, Z Angew Math Mech 76(2) 93-104 (1996), 8A379
Perturbation methods in torsion of thin hollow Saint-Venant cylinders, Mech Res Commun 23(2) 145-150 (Apr 1996), 8T380
Shrink fit of an elastic layer having a cylindrical cavity, Arch Appl Mech 66(3) 149-158 (Jan 1996), 8A392
Elastic orthotropy, Arch Mech 48(1) 129-141 (1996), 9A472
Domain optimization analysis in linear elastic problems: Approach using traction method, JSME Int J Ser A 39(2) 272-278 (Apr 1996), 10A1023
Extension of Kelvin and Brodt formulas, Math Mech Solids 1(2) 243-250 (Jun 1996), 11A411
Love's circular patch problem revisited: Closed form solutions for transverse isotropy and shear loading, Quart Appl Math 54(2) 359-384 (Jun 1996), 11A412
Mindlin's solution for axially symmetric problem of multilayer subsoils (Chinese), J Comput Struct Mech Appl 13(2) 187-192 (May 1996), 11A413
Stress distribution determination in isotropic materials via inversion of ultrasonic Rayleigh wave dispersion data, Int J Solids Struct 33(17) 2437-2451 (Jul 1996), 11A414
Torsion of half-space with lined cylindrical hole, Mech Res Commun 23(3) 267-275 (Jun 1996), 11T415

250C. Nonlinear and finite deformation problems

Load-deformation relations in second-order elasticity, Z Angew Math Phys 46(4) 479-506 (Jul 1995), 1A455
Properly invariant theory of small deformations superposed on large deformations of an elastic rod, J Elast 39(2) 97-131 (May 1995), 1A456
Finite axisymmetric deformations of elastic tubes: An approximate method, J Eng Math 29(5) 451-472 (Sep 1995), 2A360
Generalization of Cesaro's relation for plane finite deformations, Z Angew Math Phys 46(5) 812-817 (Sep 1995), 2A361
Necessary and sufficient criteria for ellipticity of the equilibrium equations of a nonlinearly elastic medium, J Appl Math Mech 59(2) 197-208 (1995), 2A362
Simulation of highly elastic complex flows, J Non-Newtonian Fluid Mech 59(2-3) 111-128 (Sep 1995), 2A363
Expansion of a cavity in a rubber block under stress: Application of the asymptotic expansion method to the analysis of the stability and bifurcation conditions, Int J Fracture 72(1) 1-20 (1995), 3A426
Finite elasticity in spatial description: Linearization aspects with 3D membrane applications, Int J Numer Methods Eng 38(20) 3365-3381 (Oct 1995), 3A427
Stress-strain field near the notch tip of a rubber sheet, Acta Mech Sinica 11(2) 169-177 (1995), 3A428
Periodic folding of thin sheets, SIAM J Appl Math 55(6) 1609-1624 (Dec 1995), 4A427
Remarks concerning the flexure of a compressible nonlinearly elastic rectangular block, J Elast 40(2) 99-106 (Aug 1995), 4A428
Stability of homogeneous deformations in nonlinear elasticity, J Elast 40(1) 75-94 (Jul 1995), 4A429
Statically admissible stress fields for a plane masonry-like structure, Quart Appl Math 53(4) 731-751 (Dec 1995), 4A430
Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 1: Theory, Acta Mech 113(1-4) 21-35 (1995), 5A388
Determination of ball and roller compliances using a vibration measuring technique, J Trib 117(3) 553-557 (Jul 1995), 5A392
Notes on the behavior of transversely loaded inextensible plates, Int J Solids Struct 33(6) 795-810 (Mar 1996), 5A393
Predictor-corrector zig-zag model for the bending of laminated composite plates, Int J Solids Struct 33(6) 879-897 (Mar 1996), 5A394
Influence of elastic deformation of the roll and the sheet in a hydrodynamically lubricated cold rolling process, J Trib 117(3) 468-475 (Jul 1995), 5A1093
Semi-quadratic variational problems for multiphase equilibria, Quart Appl Math 54(1) 73-84 (Mar 1996), 7T6
Axially symmetric deformations of perfectly elastic compressible materials, Quart J Mech Appl Math 49(1) 19-28 (Feb 1996), 7A493
Convergence rate of iteration processes in physically nonlinear elasticity theory, Prikl Mekh (Appl Mech) 31(1) 86-90 (1995), 7T494
Plane problem of nonlinear anisotropic theory of elasticity, Mech Solids 30(4) 43-51 (1995), 7A509
Nonlinear computational solid mechanics (Chinese), J Dalian Univ Tech 35(6) 789-794 (1995), 7A517
Large deformation and localization behavior of an epoxy resin under multiaxial stress states, Int J Solids Struct 33(10) 1479-1500 (Apr 1996), 8A381
Enhanced cell model with nonlinear elasticity, J Composite Mat 30(2) 248-279 (1996), 8A453
Orientation in simple shear flow of semi-dilute fiber suspensions - 1: Weakly elastic fluids, J Non-Newtonian Fluid Mech 62(2-3) 115-134 (Feb 1996), 8A865
Orientation in simple shear flow of semi-dilute fiber suspensions - 2: Highly-elastic fluids, J Non-Newtonian Fluid Mech 62(2-3) 135-153 (Feb 1996), 8A866
Constitutive branching in compressible elastic materials, Arch Appl Mech 66(4) 291-299 (Mar 1996), 9A473
Nonlinear Effects in Fluids and Solids - Math Concepts and Methods in Science and Engineering Series, Vol 45 (Plenum, New York, 1996) 11N7
Micromechanical modeling of anisotropic nonlinear elasticity of granular medium, Int J Solids Struct 33(18) 2591-2607 (Jul 1996), 11A409
Remarks on ellipticity for the generalized Blatz-Ko constitutive model for a compressible nonlinearly elastic solid, J Elast 42(2) 165-176 (Feb 1996), 11A416
Solutions of an infinite compressible nonlinearly elastic body under a line load, Quart Appl Math 54(2) 317-326 (Jun 1996), 11A417
Transformations and equation reductions in finite elasticity - I: Plane strain deformations, Math Mech Solids 1(2) 155-175 (Jun 1996), 11A418
Transformations and equation reductions in finite elasticity - II: Plane stress and axially symmetric deformations, Math Mech Solids 1(2) 177-192 (Jun 1996), 11A419
Universal relations in constrained elasticity, Math Mech Solids 1(2) 207-217 (Jun 1996), 11A420
Aeroelasticity (Dover, Mineola NY, 1996) 12N5
Nonlinear Mathematics and its Applications (Cambridge UP, New York, 1996) 12N7
Existence of minimizers and microstructure in nonlinear elasticity, Nonlinear Anal 27(3) 297-308 (Aug 1996), 12T483
Radial compaction of a hyperelastic tube as a benchmark in compressible finite elasticity, Int J Non-Linear Mech 31(4) 483-493 (Jul 1996), 12A484
Exact second-order estimates for the effective mechanical properties of nonlinear composite materials, J Mech Phys Solids 44(6) 827-862 (Jun 1996), 12A530

250D. Three-dimensional problems

Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), J Vib Eng 8(2) 91-98 (Jun 1995), 3A143
Determination of nonaxisymmetric stress-strained state of solids of revolution with transvere frames (Russian), Prikl Mekh (Appl Mech) 30(10) 35-40 (1994), 3A429
Sectional area for calculation of deformation in screw thread (Japanese), J Japan Soc Precision Eng 61(9) 1260-1264 (Sep 1995), 3A430
Determination of arbitary, non-shearing end-loadings from the bulk stress on the lateral surface of a rectangular prism, Comput Struct 58(3) 639-650 (Feb 1996), 4A431
Exact solution to a problem of axisymmetric torsion of an elastic space with a spherical crack, Quart Appl Math 53(4) 679-682 (Dec 1995), 4A436
Formulation and implementation of the eigenstrain method employing higher order elements, Int J Solids Struct 33(3) 331-342 (Jan 1996), 4A699
Vibration of stress-free hollow cylinders of arbitrary cross section, J Appl Mech 62(3) 718-724 (Sep 1995), 5A140
Application of the factorization method to some hydroelasticity problems, Mech Solids 30(2) 59-65 (1995), 5A395
Effect of elasticity on slip system activity in face-centered cubic crystals: A numerical study, Int J Solids Struct 33(8) 1069-1082 (Mar 1996), 6A381
Biharmonic Problem in the Theory of Elasticity (Gordon and Breach, New York, 1995) 8R7
Constitutive branching in compressible elastic materials, Arch Appl Mech 66(4) 291-299 (Mar 1996), 9A473
Nonstationary plane nonaxisymmetric deformation of a multilayered cylinder, Prikl Mekh (Appl Mech) 31(8) 40-47 (1995), 9A474
Semi-analytical singular elements in plane and spatial problems of elasticity, Mech Solids 30(6) 43-54 (1995), 10T6
Semi-implicit method for solving problems of elasticity theory for thin axially-symmetric bodies, Mech Solids 30(5) 72-78 (1995), 10A514
Stress state near a singular line of the interface, Mech Solids 30(5) 59-64 (1995), 10A515
Combined programming and iteration algorithm for FE analysis of 3D contact problems, Acta Mech Sinica 11(4) 318-326 (1995), 10A519
Boundary contour method for 3D linear elasticity, J Appl Mech 63(2) 278-286 (Jun 1996), 12A485
Directional permeability measurement of deformed reinforcement, J Reinforced Plastics Composites 15(6) 552-562 (Jun 1996), 12A486
Three-dimensional analysis of surface cracks in an elastic half-space, J Appl Mech 63(2) 287-294 (Jun 1996), 12A487

250E. Stress concentrations and singularities

Algorithm for the approximate solution of integral equations of Mellin type, Numer Math 70(4) 427-452 (Jun 1995), 1A67
Practical stress expressions for stress concentration regions, Fatigue Fracture Eng Mat Struct 18(7-8) 885-895 (Aug 1995), 1A457
Stress singularities at crack corners, J Elast 39(1) 1-16 (Apr 1995), 1A458
Dynamic indentation of an elastic half-plane by a rigid wedge: Frictional and tangential-displacement effects, Int J Solids Struct 32(23) 3435-3450 (Dec 1995), 1A461
Line singularity inside an elliptic inhomogeneity, Z Angew Math Phys 46(4) 630-635 (Jul 1995), 1A465
Antiplane deformation of an elastic wedge under action concentrated near the corner point, J Appl Math Mech 59(2) 307-309 (1995), 2A364
Antiplane strain problem of diamond inclusion, Int J Fracture 71(3) 197-212 (1995), 2A365
Failure in lug joints and plates with holes, Eng Failure Anal 2(2) 129-135 (Jun 1995), 2A366
Measurement of stress concentration in a fiber adjacent to a fiber break in a model composite, Composites Sci Tech 54(3) 237-249 (1995), 2A420
Stress analysis of a stepped shaft under remote torsion, Quart J Mech Appl Math 48(4) 517-530 (Nov 1995), 3A425
Complete solution to the problem of an external circular crack in a transversely isotropic body subjected to arbitrary shear loading, Int J Solids Struct 33(2) 167-191 (Jan 1996), 3A678
Influence of the intermediate material on the order of stress singularity in three-phase bonded structure, Int J Solids Struct 33(3) 399-417 (Jan 1996), 4A432
Development of plastic zones and residual stress in elasto-plastic contact problems with stress singularities in elastic range, Int J Mech Sci 38(2) 175-190 (Feb 1996), 4A458
Design procedure for reducing the stress concentration around circular holes in laminated composites, Composites 26(12) 815-828 (Dec 1995), 4A506
Why K? High order singularities and small scale yielding, Int J Fracture 72(2) 97-120 (1995), 4A698
Application of the weight function and boundary collocation method to the calculation of initial phase transformation zones, Eng Fracture Mech 52(5) 853-863 (Nov 1995), 4A758
Axisymmetric displacement boundary value problem for a penny-shaped crack, Arch Appl Mech 66(1-2) 1-8 (Dec 1995), 5A396
Diffusion rate for stress in orthotropic materials, J Appl Mech 62(3) 654-661 (Sep 1995), 5A397
Effect of eccentric loading on the stress distribution in thread roots, Fatigue Fracture Eng Mat Struct 18(11) 1333-1341 (Nov 1995), 5A398
Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, Int J Solids Struct 33(5) 731-746 (Feb 1996), 5A399
Stress concentration at irregular surfaces of anisotropic half-spaces, Acta Mech 113(1-4) 119-135 (1995), 5A400
Closed form solution of stress and strain concentration factors of axially symmetric bodies with small scale plasticity by means of the conservative integral method, Int J Solids Struct 33(8) 1105-1117 (Mar 1996), 6A382
Continuum modeling of strong discontinuities in solid mechanics using damage models, Comput Mech 17(1-2) 49-61 (Dec 1995), 6A383
Splitting and cracking of elastic bodies, Fatigue Fracture Eng Mat Struct 18(12) 1371-1405 (Dec 1995), 6T635
Exact solution on the stress analysis of fillet welds, Appl Math Mech 16(11) 1019-1024 (Nov 1995), 7A495
Stress singularities near corner of wedged dissimilar materials (Chinese), J Dalian Univ Tech 35(6) 782-789 (1995), 7A496
Torsion of compound cylinder with an external annular crack, JSME Int J Ser A 39(1) 42-48 (Jan 1996), 7A497
Elastic joints containing interfacial cracks, Eng Fracture Mech 53(3) 329-344 (Feb 1996), 7A844
Effective method for computing the elastic field in a finite cracked disk, Eng Fracture Mech 53(4) 545-556 (Mar 1996), 8A382
Elastic state and orientation of needle-shaped inclusions, Acta Mat 44(3) 1263-1269 (Mar 1996), 8A383

General solution of an infinite elastic plate with an elliptic hole under biaxial loading, Int J Pressure Vessels Piping 67(1) 95-104 (1996), 8A384
Interfacial stress singularities in a bimaterial wedge, Int J Fracture 74(1) 63-75 (1995), 8A385
Singularities of an interface crack impinging on a triple grain junction, Int J Solids Struct 33(11) 1563-1573 (May 1996), 8A386
Stress singularities at triple junctions with freely sliding grains, Int J Solids Struct 33(11) 1535-1541 (May 1996), 8A445
Assessment of the notch stress-strain conversion rules for short flat bars with projections subjected to axial and shear loading, J Strain Anal Eng Des 31(2) 91-110 (Mar 1996), 8A591
Failure of brittle materials near stress singularities, Eng Fracture Mech 53(4) 511-518 (Mar 1996), 8A613
Prediction of fatigue behavior in stress-concentrators of arbitrary geometry, Eng Fracture Mech 53(6) 929-939 (Apr 1996), 9A764
Problems of the elliptical holes or cracks in orthotropic plates (Chinese), J Comput Struct Mech Appl 12(3) 364-368 (Aug 1995), 9A804
Mode I stress singularity and intensity factor at a crack tip terminating at a transversely isotropic-orthotropic bimaterial interface, Int J Fracture 74(4) 325-340 (1995), 9A829
Numerical thermo-elastic analysis of singularities in 2D, Int J Fracture 74(4) 341-361 (1995), 9A1273
Anisotropic Elasticity: Theory and Applications - Oxford Engineering Science Series, Vol 45 (Oxford UP, New York, 1996) 10R16
Semi-analytical singular elements in plane and spatial problems of elasticity, Mech Solids 30(6) 43-54 (1995), 10T6
Stress state near a singular line of the interface, Mech Solids 30(5) 59-64 (1995), 10A515
Analytical variational method of solution for stress concentration factors of finite plates with a pin hole, Chinese J Aeronaut 9(1) 21-27 (Feb 1996), 10A516
Efficient approach to constructing discontinuous solutions of mechanical problems for bodies of finite size, Mech Solids 30(6) 55-61 (1995), 10A517
Procedure for numerical analysis of stress singularities at the corner points of 3D bodies, Mech Solids 30(5) 65-71 (1995), 10A518
Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, J Composite Mat 30(5) 589-602 (1996), 10A577
Stress singularity near the notch tip of a rubber-like specimen under tension, Eur J Mech A 15(2) 199-211 (1996), 10A591
Order of the singular stress fields of through-thickness cracks, Int J Fracture 75(1) 85-93 (1995), 10A831
Thermal residual stresses in bonded dissimilar materials and their singularities, JSME Int J Ser A 39(2) 197-203 (Apr 1996), 10A1340
Analysis of stress concentration factors for stepped plates based on a crack tip stress intensity approach, J Strain Anal Eng Des 31(3) 197-204 (May 1996), 11A421
Asymptotic analysis for stress concentration around square holes with rounded corners, Mec Appl 40(2-3) 349-371 (Jun 1995), 11A422
Elastic singularity in joined half-spaces, Int J Eng Sci 34(6) 629-638 (May 1996), 11A423
Stress singularity due to kink band weakening a unidirectional composite under compression, J Composite Mat 30(6) 672-691 (1996), 11A480
Interface cracks in a layered solid subjected to contact stresses, J Appl Mech 63(2) 271-277 (Jun 1996), 12A488
Logarithmic singular stress field in a semi-infinite plate consisting of two edge-bonded wedges subjected to surface tractions, Int J Fracture 75(4) 357-378 (1995), 12A489
Singularities at grain triple junctions in 2D polycrystals with cubic and orthotropic grains, J Appl Mech 63(2) 295-300 (Jun 1996), 12A490
Singularities at the tip of a crack terminating normally at an interface between two orthotropic media, J Appl Mech 63(2) 264-270 (Jun 1996), 12A491
Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, Acta Mech Solida Sinica 9(2) 124-138 (1996), 12A492
Stress singularity in three-phase bonded structure, J Appl Mech 63(2) 252-258 (Jun 1996), 12A501
Analytical solution for mode I crack orthogonal to free surface, Int J Fracture 76(1) 79-95 (1995), 12A770

250F. Elastic imperfections (dislocations, etc)

Dissipation of configurational forces in defective elastic solids, Arch Mech 47(1) 81-99 (1995), 1A459
Edge dislocation interacting with an elliptical inclusion surrounded by an interfacial zone, Quart J Mech Appl Math 48(3) 465-482 (Aug 1995), 1A462
Stress concentration of finite composite laminates weakened by multiple elliptical holes, Int J Solids Struct 32(20) 3001-3014 (Oct 1995), 1A560
Core energy of dislocations, Acta Metall Mat 43(10) 3679-3684 (Oct 1995), 2A367
Point force and an edge dislocation in an elliptical inclusion embedded in an infinite medium, Int J Fracture 71(4) 311-322 (1995), 2A368
Antiplane problems of collinear rigid line inclusions in dissimilar media, Eng Fracture Mech 52(5) 907-916 (Nov 1995), 4A718
Correct, globally-defined solution of the screw dislocation problem in the gauge theory of defects, Int J Eng Sci 34(1) 81-86 (Jan 1996), 5A401
Critical stretch for formation of a cylindrical void in a compressible hyperelastic material, Int J Non-Linear Mech 30(6) 899-914 (Nov 1995), 5A402
Lamellar inhomogeneities in a uniform stress field, J Mech Phys Solids 44(1) 1-21 (Jan 1996), 6A384
Determination of displacements on the boundary of a solid, caused by discontinuities of the medium continuity, Prikl Mekh (Appl Mech) 30(12) 25-32 (1994), 7A498
Nonlinear continuum theory of dislocations, Int J Eng Sci 34(3) 339-358 (Feb 1996), 7A499
Elastic interaction between a moving screw dislocation and a surface crack, J Mat Res 10(10) 2668-2675 (Oct 1995), 8A387
Numerical calculation of 2D effective moduli for microcracked solids, Int J Solids Struct 33(11) 1575-1586 (May 1996), 8A388
Geometry of uniformity in second-grade elasticity, Acta Mech 114(1-4) 217-224 (1996), 8A397
Development of strain pattern due to initial non-uniformities, J Mech Behavior Mat 6(2) 181-192 (1996), 9A475
New modification of the formulation of Peierls stress, Acta Mat 44(4) 1541-1546 (Apr 1996), 9A476
Dislocation Based Fracture Mechanics (World Sci Pub, River Edge, NJ, 1996) 12R14

250G. Variational and energy methods

Comparison of two methods for the solution of a class of nonconvex energy problems using convex minimization algorithms, Comput Struct 57(6) 959-971 (Dec 1995), 2A369
Solution of 2D problems of the theory of elasticity by minimizing the boundary residual in the space of biharmonic functions, J Appl Math Mech 59(2) 217-225 (1995), 2A370
Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), J Vib Eng 8(2) 91-98 (Jun 1995), 3A143
Formulation and analysis of variational methods for time integration of linear elastodynamics, Comput Methods Appl Mech Eng 127(1-4) 241-257 (Nov 1995), 4A433
Stability and convergence of a class of enhanced strain methods, SIAM J Numer Anal 32(6) 1705-1728 (Dec 1995), 4A434
Analytical-variational and generalized weighted conservative integral method on solution of interfacial cracks with their applications to bi-metal glued joints, Eng Fracture Mech 52(6) 1127-1137 (Dec 1995), 4A740
Numerical treatment of hemivariational inequalities in mechanics: Two methods based on the solution of convex subproblems, Comput Mech 16(6) 406-416 (Nov 1995), 5A403
Condensed method for linear complementary equations of elasto-plastic problems, Appl Math Mech 16(10) 925-936 (Oct 1995), 6A385
So-called variational consistency of plate models - I: Indefinite plates, Evaluation of dispersive behavior, J Sound Vib 188(4) 515-527 (Dec 1995), 6A481
Compression of bonded blocks of soft elastic material: Variational solution, J Eng Mech 122(2) 163-170 (Feb 1996), 7A500
Spatial decay estimates of Saint-Venant type in generalized thermoelasticity, Int J Eng Sci 34(3) 299-311 (Feb 1996), 7A501
Stability and bifurcation of homogeneous deformations of a compressible elastic body under pressure load, Math Mech Solids 1(1) 57-72 (Mar 1996), 9A471
Coupled variational principles and generalized coupled variational principles in photoelasticity, Appl Math Mech 17(1) 39-44 (Jan 1996), 9A477
Mathematical models and generalized variational principles of nonlinear analysis for perforated thin plates, Appl Math Mech 17(2) 109-118 (Feb 1996), 9A578
Use of energy flow concept in vibration design, AIAA J 34(6) 1250-1255 (Jun 1996), 11A159

250H. Contact problems and inclusions

Development of contact stress analysis programs using the hybrid method of FEM and BEM, Comput Struct 57(4) 691-698 (Nov 1995), 1A460
Dynamic indentation of an elastic half-plane by a rigid wedge: Frictional and tangential-displacement effects, Int J Solids Struct 32(23) 3435-3450 (Dec 1995), 1A461
Edge dislocation interacting with an elliptical inclusion surrounded by an interfacial zone, Quart J Mech Appl Math 48(3) 465-482 (Aug 1995), 1A462
Generalization of Cernuti's problem in an elastic half-space, Proc JSCE 519(I-32) 1-10 (Jul 1995), 1A463
Kinematic approach to dynamic contact problems - The geometrical soft way method, Eng Trans 43(1-2) 101-111 (1995), 1A464
Line singularity inside an elliptic inhomogeneity, Z Angew Math Phys 46(4) 630-635 (Jul 1995), 1A465
New BE-mathematical programming method for contact problems with friction, Commun Numer Methods Eng 11(8) 683-690 (Aug 1995), 1A466
New developments in contact pressure optimization, Eng Trans 43(1-2) 297-312 (1995), 1A467
Strategy for determining the equilibrium shape of an inclusion, Arch Mech 47(2) 379-390 (1995), 1A468
Green's Functions in Applied Mechanics - Topics in Eng Vol 27 (Comput Mech, Billerica MA, 1995) 2R20
Contact Mechanics II - Computational Techniques (Comput Mech, Billerica MA, 1995) 2N24
Axisymmetric bodies of equal material in contact under torsion or shift, Arch Appl Mech 65(7) 478-487 (Sep 1995), 2A371
Contact problems with nonconforming discretizations using BEM, Comput Struct 57(5) 829-839 (Dec 1995), 2A372
Finite element simulation of wedge indentation, Comput Struct 57(5) 915-927 (Dec 1995), 2A373
Integral equation for a problem of a wedge-shaped punch, J Appl Math Mech 59(2) 255-261 (1995), 2A374
Physical and geometrical nonlinearities in contact problems of elastic turbine blade attachments, Proc Inst Mech Eng C 209(C4) 273-286 (1995), 2A375
Slip line at the end of a punch impressed into a half-plane, J Appl Math Mech 59(2) 249-254 (1995), 2A376
Contact detection algorithms for 3D ellipsoids in discrete element modeling, Int J Numer Anal Methods Geomech 19(9) 653-659 (Sep 1995), 2A516
Mathematical Modelling of Solids with Nonregular Boundaries (CRC Press, Boca Raton FL, 1995) 3R20
Contact mechanics analysis of frictional slip of inclusions embedded in dissimilar matrices using the BEM, J Strain Anal Eng Des 30(4) 245-255 (Oct 1995), 3A46
Analysis of Berkovich indentation, Int J Solids Struct 33(2) 221-248 (Jan 1996), 3A431
Contact problem of a pair of flat rectangular stamps resting on an elastic half-space, Acta Mech 112(1-4) 77-82 (1995), 3A432
Derivation of the variational inequalities of the incremental frictional elastic contact problems, Arch Mech 47(4) 725-743 (1995), 3A433
Development of contact stress analysis programs using the hybrid method of FEM and BEM, Comput Struct 58(1) 13-20 (Jan 1996), 3A434
Effective elastic moduli of an inhomogeneous medium with cracks, Acta Mech Sinica 11(2) 153-161 (1995), 3A435
Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), J Japan Soc Precision Eng 61(9) 1290-1294 (Sep 1995), 3T436
Impact of a rigid sphere with an elastic layer of finite thickness, Acta Mech 112(1-4) 83-93 (1995), 3A437
Three-dimensional contact mechanics analysis of crack problems using the BEM, Int J Fracture 72(1) 39-67 (1995), 3A438
Mathematical solution of a special mixed-boundary-value problem of anisotropic elasticity, Quart J Mech Appl Math 48(4) 635-658 (Nov 1995), 3A440
Strain field analysis and sensor design for monitoring machine tool spindle bearing force, Int J Machine Tools Manuf 36(2) 203-216 (Feb 1996), 4A389
Effective elastic moduli of a soft medium with hard polygonal inclusions and extremal behavior of effective Poisson's ratio, J Elast 40(1) 45-73 (Jul 1995), 4A435
Exact solution to a problem of axisymmetric torsion of an elastic space with a spherical crack, Quart Appl Math 53(4) 679-682 (Dec 1995), 4A436
Interaction of frictional heating and wear at a transient sliding contact, J Appl Math Mech 59(3) 459-466 (1995), 4A437
Rolling of a rigid wheel along a deformable rail, J Appl Math Mech 59(3) 485-490 (1995), 4A438
Virtual contact loading method for contact problems considering material and geometric nonlinearities, Comput Struct 58(3) 621-632 (Feb 1996), 4A439
Interface problems in elasto-viscoplasticity, Quart Appl Math 53(4) 633-655 (Dec 1995), 4A464
Friction and elasticity on a molecular scale, Trib Letters 1(2-3) 247-252 (Nov 1995), 4T827
Friction force microscopy as a probe of molecular relaxation on polymer surfaces, Trib Letters 1(2-3) 253-264 (Nov 1995), 4A847
Bimaterial interface cracks originating from holes, Mech Res Commun 22(6) 577-582 (Dec 1995), 4T875
Application of the factorization method to some hydroelasticity problems, Mech Solids 30(2) 59-65 (1995), 5A395
Axisymmetric displacement boundary value problem for a penny-shaped crack, Arch Appl Mech 66(1-2) 1-8 (Dec 1995), 5A396
Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, Int J Solids Struct 33(5) 731-746 (Feb 1996), 5A399
Asymptotic analysis of the surface settlement shape for transversely inhomogeneous half-space at a circular punch indentation, Mech Solids 30(2) 53-58 (1995), 5A404
Calculation of stress fields near inclusions by use of the fracture mechanics weight function, Eng Fracture Mech 53(1) 17-22 (Jan 1996), 5A405
Contact problem taking into account the forces of supercoulomb friction, J Friction Wear 16(1) 94-98 (1995), 5A406
Development of generalized plane-strain tensors for the concentric cylinder, J Appl Mech 62(3) 590-594 (Sep 1995), 5A407
Discontinuous contact of an anisotropic half-plane and a rigid base with disturbed surface, Int J Eng Sci 34(2) 183-200 (Jan 1996), 5A408
Elastic field caused by a circular cylindrical inclusion - Part I: Inside the region $x_1^2 + x_2^2 < a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, J Appl Mech 62(3) 579-584 (Sep 1995), 5A409
Elastic field caused by a circular cylindrical inclusion - Part II: Inside the region $x_1^2 + x_2^2 > a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, J Appl Mech 62(3) 585-589 (Sep 1995), 5A410
Elastic fields resulting from concentrated loading on a 3D incompressible wedge, J Appl Mech 62(3) 557-565 (Sep 1995), 5A411
Frictional contact element for strongly curved contact problems, Int J Numer Methods Eng 39(1) 165-184 (Jan 1996), 5A412
Generalized self-consistent mechanics method for solids containing elliptical inclusions, J Appl Mech 62(3) 566-572 (Sep 1995), 5A413
Interaction between a penny-shaped crack and a spherical inclusion under torsion, Z Angew Math Phys 46(6) 932-945 (Nov 1995), 5A414
Tangential loading transportation between roller and flat with modified Coulomb friction: A 3D roll-contact calculation with the FEM, Comput Struct 58(5) 1031-1043 (Mar 1996), 5A415
Thin plate bending problem of dissimilar strips with two bond lines, Arch Appl Mech 66(1-2) 20-33 (Dec 1995), 5A416
Plane contact problem for periodic laminated composite involving frictional heating, Arch Appl Mech 66(1-2) 82-89 (Dec 1995), 5A474
Distribution of body stresses in an n-phase composite body: Prior to outside loading, J Reinforced Plastics Composites 14(12) 1307-1316 (Dec 1995), 5A485
Deformation and wear of a half-space by a sliding convex indenter, J Friction Wear 16(1) 118-120 (1995), 5A807
Finite element algorithms for contact problems, Arch Comput Methods Eng 2(4) 1-49 (1995), 6A25
Effect of bulk deformation and surface tension on the growth of a coherent inclusion, J Elast 41(2) 77-106 (Nov 1995), 6A386
Elastic equilibrium of a medium containing a finite number of aligned spheroidal inclusions, Int J Solids Struct 33(8) 1175-1189 (Mar 1996), 6A387
Identation of elastoplastic half-space by elastic ball, J Friction Wear 16(2) 12-18 (1995), 6A388
Indenter penetration energy and abrasive wear, J Friction Wear 16(2) 32-38 (1995), 6A795
Approximate explicit solution for the local torsion of an elastic layer, Mech Struct Machines 24(1) 21-38 (1996), 7A502
Approximate solution of the thermoelastic contact problem with frictional heating in the general case of the profile shape, J Mech Phys Solids 44(2) 243-250 (Feb 1996), 7A503
Contact of elastic bodies with thin viscoelastic coatings under conditions of rolling or sliding friction, J Appl Math Mech 59(4) 607-614 (1995), 7A504
Contact problems related to tightness of deformable joints, Mech Solids 30(4) 59-65 (1995), 7A505
Green's functions for an anisotropic elliptic inclusion under generalized plane strain deformations, Quart J Mech Appl Math 49(1) 1-18 (Feb 1996), 7A506
Interaction of a rigid cylinder with elastic half-space under heat formation on the contact area, Prikl Mekh (Appl Mech) 30(11) 26-31 (1994), 7T507
Unified treatment of the elliptic inhomogeneity with a slipping interface under line-singularity loading, Mech Res Commun 23(1) 47-53 (Feb 1996), 7T508
Model of the layered plate with nonideal contact of the layers (Russian), Mech of Composite Mat T31(5) 671-676 (Oct 1995), 7A568

Nonlinear elastic beam theory with application in contact problems and variational approaches, Mech Res Commun 23(1) 11-17 (Feb 1996), 7T598
Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, JSME Int J Ser A 39(1) 26-33 (Jan 1996), 7A812
Effect of a strip-shaped punch on a linearly-deformable foundation strengthened by a thin covering, J Appl Math Mech 59(5) 789-795 (1995), 8A389
Effect of skew angle on the axial pressure distribution between flexible rubber-covered rollers, Int J Mech Sci 38(6) 607-619 (Jun 1996), 8A390
Effect of the stiffness of the measurement system on adhesion force curves in the elastic continuum limit, J Adhesion Sci Tech 10(1) 17-31 (1996), 8A391
Shrink fit of an elastic layer having a cylindrical cavity, Arch Appl Mech 66(3) 149-158 (Jan 1996), 8A392
Spatial contact problem for an elastic wedge with unknown contact area, J Appl Math Mech 59(5) 781-787 (1995), 8A393
Two dimensional dynamic friction contact problems - I: Numerical analysis, Eng Anal Boundary Elements 16(3) 227-233 (1995), 8A394
Indentation of a cantilever beam or plate, Int J Fracture 74(2) 99-130 (1995), 8A615
Determination of stress field in an elastic solid weakened by parallel penny-shaped cracks, Acta Mech 114(1-4) 83-94 (1996), 8A620
Derivation and analysis of a generalized standard model for contact, friction, and wear, Int J Solids Struct 33(13) 1817-1836 (May 1996), 8A786
Variational modifications of Zemochin contact problems solution method, Eng Trans 43(4) 527-544 (1995), 9A122
Elastodynamic analysis of nonplanar cracks in a half-space, Acta Mech 115(1-4) 67-78 (1996), 9A269
Contact and adhesion of rough surfaces, J Adhesion Sci Tech 10(2) 161-175 (1996), 9A478
Contact problem with slip displacement dependent friction in elastostatics, Int J Eng Sci 34(4) 471-491 (Mar 1996), 9A479
Modified tree search algorithm for contact BEM-LCP approach, Comput Struct 59(4) 707-713 (May 1996), 9A480
Punch problems for an anisotropic elastic half-plane, J Appl Mech 63(1) 69-76 (Mar 1996), 9A481
Stress concentration factors at an elliptical hole on the interface between bonded dissimilar half-planes under bending moment, J Appl Mech 63(1) 7-14 (Mar 1996), 9A482
Torsional contact problem for an indented half-space, J Appl Mech 63(1) 1-6 (Mar 1996), 9A483
Traction and contact problems for an anisotropic medium with a cylindrical borehole, Int J Solids Struct 33(15) 2193-2211 (Jun 1996), 9A484
Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, Int J Solids Struct 33(16) 2309-2329 (Jul 1996), 10A51
Combined programming and iteration algorithm for FE analysis of 3D contact problems, Acta Mech Sinica 11(4) 318-326 (1995), 10A519
Exact solution of a time-dependent frictional contact problem for two elastic spheres, Int J Eng Sci 34(5) 537-548 (Apr 1996), 10A520
Quadratic programming algorithms for obstacle problems, Commun Numer Methods Eng 12(4) 249-256 (Apr 1996), 10A521
Tension of elastic solid with elastic circular-cylindrical inclusion, JSME Int J Ser A 39(2) 186-191 (Apr 1996), 10A522
Stress distributions around circular inclusion in infinite plane for nonlocal elasticity (matrix and circular inclusion have the same nonlocal coefficients), JSME Int J Ser A 39(2) 192-196 (Apr 1996), 10A693
Antiplane interaction of an anisotropic elliptic inclusion with an arbitrarily-oriented crack, Int J Fracture 75(3) 229-245 (1995), 10A806
Comparison of plane and axisymmetric contacts between elastically dissimilar bodies, J Trib 118(2) 439-442 (Apr 1996), 10T990
Contact stress in a bolted joint with a threaded bolt, Exp Mech 36(1) 17-23 (Mar 1996), 10A1033
Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - I: SH case, Int J Solids Struct 33(19) 2789-2815 (Aug 1996), 11A180
Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - II: P and SV cases, Int J Solids Struct 33(19) 2817-2840 (Aug 1996), 11A181
Certain two-punch problems for an elastic layer, Int J Solids Struct 33(19) 2759-2774 (Aug 1996), 11A424
Class of Winkler-type contact problems, Z Angew Math Mech 76(5) 273-279 (1996), 11A425
Improved method for determining contact stresses, J Strain Anal Eng Des 31(3) 169-176 (May 1996), 11A426
Stress singularities at vertices of conical inclusions with freely sliding interfaces, Int J Solids Struct 33(17) 2453-2457 (Jul 1996), 11A427
Improved theory for contact indentation of sandwich panels, AIAA J 34(6) 1238-1244 (Jun 1996), 11A521
Finite-length cracks and inclusions in poroelasticity, Quart J Mech Appl Math 49(2) 311-335 (May 1996), 11A690
Rebound of an elastic sphere against a rigid wall, J Appl Mech 63(2) 259-263 (Jun 1996), 12A237
Geometric properties of 2D and 3D unilateral large slip contact operators, Comput Methods Appl Mech Eng 131(3-4) 263-286 (May 1996), 12A493
Geometrically nonlinear modeling of contact problems involving thin elastic layers, J Mech Phys Solids 44(7) 1103-1127 (Jul 1996), 12A494
Nonlocal elastic half plane loaded by a concentrated force, Int J Eng Sci 34(8) 943-950 (Jun 1996), 12A495
Surface displacements due to a steadily moving point force, J Appl Mech 63(2) 245-251 (Jun 1996), 12A496
Unified contact algorithm based on the territory concept, Comput Methods Appl Mech Eng 130(1-2) 1-16 (Mar 1996), 12A497
Unsymmetrical rigid stamp on a nonlocal elastic half-plane, Int J Eng Sci 34(8) 933-941 (Jun 1996), 12A498
Contact problem of a ball and an elliptic race in the case of a two-point initial touch, J Machinery Manuf Reliab 1 41-44 (1996), 12T960

250I. Anisotropic media

Correlation of elastic and plastic anisotropy in sheet metals, J Elast 39(2) 165-173 (May 1995), 1T469
Two-dimensional problem of anisotropic elastic body with a hyperbolic boundary, Appl Math Mech 16(5) 451-460 (May 1995), 1A470
Saint-Venant end effects for plane deformations of elastic composites, Mech Composite Mat Struct 2(3) 203-214 (Sep 1995), 1A530
Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, Int J Solids Struct 32(20) 2989-3000 (Oct 1995), 1A682
Finite element approach to 3D singular stress states in anisotropic multi-material wedges and junctions, Int J Solids Struct 33(1) 33-47 (Jan 1996), 2A377
Explicit formulae of the integral kernels and C-matrix in the 2D Somigliana identity for orthotropic materials, Eng Anal Boundary Elements 15(3) 283-288 (1995), 3A439
Mathematical solution of a special mixed-boundary-value problem of anisotropic elasticity, Quart J Mech Appl Math 48(4) 635-658 (Nov 1995), 3A440
Alternative model for anisotropic elasticity based on fabric tensors, Mech Mat 21(4) 243-250 (Nov 1995), 4A2
Stress concentration at irregular surfaces of anisotropic half-spaces, Acta Mech 113(1-4) 119-135 (1995), 5A400
Anisotropic elasticity of oriented polyethylene materials, Composites Sci Tech 55(2) 131-138 (1995), 5A417
Anisotropic yield surfaces based on elastic projection operators, J Appl Mech 62(3) 780-785 (Sep 1995), 5A418
Green's function for elastic medium with general anisotropy, J Appl Mech 62(3) 573-578 (Sep 1995), 5A419
Young's modulus for anisotropic media, J Appl Mech 62(3) 819-820 (Sep 1995), 5T420
Predicting the properties of unidirectional fibrous composites with monotropic reinforcement, Composites Sci Tech 55(2) 139-143 (1995), 5A469
Dynamics of linear anisotropic rods, Int J Solids Struct 33(7) 917-929 (Mar 1996), 6A124
Decay estimates for solutions of linear elasticity for anisotropic media, Math Methods Appl Sci 19(1) 15-31 (Jan 1996), 6A379
Thermoelastic theory for the response of materials functionally graded in two directions, Int J Solids Struct 33(7) 931-966 (Mar 1996), 6A1160
Coexistent phases in nonlinear thermoelasticity: Radially symmetric equilibrium states of aeolotropic bodies, J Elast 41(2) 107-136 (Nov 1995), 6A1163
Three-dimensional BE formulation of anisotropic elasticity with gravity, Appl Math Model 20(2) 114-120 (Feb 1996), 7A58
Green's functions for an anisotropic elliptic inclusion under generalized plane strain deformations, Quart J Mech Appl Math 49(1) 1-18 (Feb 1996), 7A506
Plane problem of nonlinear aniostropic theory of elasticity, Mech Solids 30(4) 43-51 (1995), 7A509
Solving 3D elastic problems in determining residual stresses in anisotropic materials, Mech Solids 30(4) 34-42 (1995), 7A510
Surface-impedance tensors of transversely isotropic elastic materials, Quart J Mech Appl Math 49(1) 29-48 (Feb 1996), 7A511
Thermoelastoplastic state of discretely nonhomogeneous bodies of revolution with regard for nonlinearity of the shift characteristic of orthotropic of material (Russian), Prikl Mekh (Appl Mech) 31(6) 34-41 (1995), 7A513
Boundary integral transformation of body-force volume integral in BEM for 2D anisotropic elasticity, Mech Res Commun 23(2) 227-232 (Apr 1996), 8A63
Stress field of a dislocation loop in an anisotropic solid, J Mech Phys Solids 44(3) 293-305 (Mar 1996), 8A395
Anharmonic properties of alkali halides and cyanides, Acta Phys Polonica A 89(1) 75-90 (Jan 1996), 9A485
Anisotropy of elastic properties in various aluminum-lithium sheet alloys, Acta Mat 44(5) 1801-1812 (May 1996), 9A486
Nonuniqueness theorem for an inverse boundary value problem in elasticity, SIAM J Appl Math 56(2) 602-610 (Apr 1996), 9A487
Periodic array of staggered planar cracks in an anisotropic elastic modium, Eng Fracture Mech 53(6) 941-946 (Apr 1996), 9A830
Anisotropic Elasticity: Theory and Applications - Oxford Engineering Science Series, Vol 45 (Oxford UP, New York, 1996) 10R16
Two-dimensional Hooke's tensors: Isotropic decomposition, effective symmetry criteria, Arch Mech 48(2) 325-345 (1996), 10A523
Effects of curvilinear anisotropy on radially-symmetric stresses in anisotropic linearly elastic solids, J Elast 42(1) 31-48 (Jan 1996), 11A428
Exact elasticity solution for buckling of composite laminates, Composite Struct 34(2) 291-299 (1996), 11A429
Stress analysis of anisotropic elastic V-notched bodies, Int J Solids Struct 33(17) 2403-2416 (Jul 1996), 11A430
Singularities at grain triple junctions in 2D polycrystals with cubic and orthotropic grains, J Appl Mech 63(2) 295-300 (Jun 1996), 12A490
Boundary value problems of 2D anisotropic body with a parabolic boundary, Acta Mech Solida Sinica 9(2) 139-150 (1996), 12A499

250J. Nonhomogeneous media

Elastic constants of a material containing spherical coated holes, Arch Mech 47(2) 223-246 (1995), 1A471
Interaction between a spherical inhomogeneity and two symmetrically placed penny-shaped cracks, Int J Fracture 70(4) 305-320 (1995), 1A472
Note on the torsion of a non-homogeneous solid by an annular disc, Int J Solids Struct 32(20) 2961-2965 (Oct 1995), 1A473
Torsion of a composite tube, Z Angew Math Mech 75(9) 723-725 (1995), 2T432
Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, JSME Int J Ser A 38(4) 601-609 (Oct 1995), 3A13
Effective elastic moduli of an inhomogeneous medium with cracks, Acta Mech Sinica 11(2) 153-161 (1995), 3A435
Three-dimensional transient thermal stress analysis of a nonhomogeneous hollow circular cylinder due to a moving heat source in the axial direction, J Thermal Stresses 18(5) 497-512 (Oct 1995), 3A1173
Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, Finite Elements Anal Des 20(4) 283-298 (Sep 1995), 4A46
Properties of eigenfunction expantion form for the rigid line problem in dissimilar media, Int J Solids Struct 33(5) 611-628 (Feb 1996), 5A390
Elastodynamic Green's functions for a smoothly heterogeneous half-space, Int J Solids Struct 33(7) 1005-1021 (Mar 1996), 6A389
Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, J Composite Mat 29(18) 2366-2387 (1995), 6A453
Stress singularities near corner of wedged dissimilar materials (Chinese), J Dalian Univ Tech 35(6) 782-789 (1995), 7A496
Torsion of compound cylinder with an external annular crack, JSME Int J Ser A 39(1) 42-48 (Jan 1996), 7A497
Stressed state of anisotropic structure-inhomogeneous cylindrical bodies, Prikl Mekh (Appl Mech) 31(2) 16-21 (1995), 7A512
Thermoelastoplastic state of discretely nonhomogeneous bodies of revolution with regard for nonlinearity of the shift characteristic of orthotropic of materini (Russian), Prikl Mekh (Appl Mech) 31(6) 34-41 (1995), 7A513
Elastic properties of sodium borovanadate glasses, J Mat Res 10(11) 2945-2951 (Nov 1995), 8A396
Geometry of uniformity in second-grade elasticity, Acta Mech 114(1-4) 217-224 (1996), 8A397
Poisson's ratio of porous and microcracked solids: Theory and application to oxide superconductors, J Mat Res 10(11) 2715-2722 (Nov 1995), 8A398
Role of strain gradients in the grain-size effect for polycrystals, J Mech Phys Solids 44(4) 465-495 (Apr 1996), 8A399
Patterns of deformation in phase transformations and Luders bands, Int J Solids Struct 33(12) 1689-1707 (May 1996), 9A488
Stress singularities in a bimaterial joint with inhomogeneous temperature distribution, Int J Solids Struct 33(14) 2039-2054 (Jun 1996), 9A489
Centrally-symmetric deformation of an elastic radially-inhomogeneous transversally-isotropic hollow sphere, Mech Solids 30(6) 36-42 (1995), 10A524
Torsion of half-space with lined cylindrical hole, Mech Res Commun 23(3) 267-275 (Jun 1996), 11T415
Alloy separation of a binary mixture in a stressed elastic sphere, J Elast 42(1) 49-77 (Jan 1996), 11A431
Existence theorems in the theory of mixtures, J Elast 42(2) 145-163 (Feb 1996), 11A432
Tensorial representation of the orientation distribution function of internal structure elements for heterogeneous solids, Math Mech Solids 1(2) 193-205 (Jun 1996), 11A433
Damage and localization in elastic materials with voids, Mech Cohesive-Frictional Mat 1(2) 129-144 (Apr 1996), 11A659
Homogenization for granular materials: Non reversible behavior, Mech Cohesive-Frictional Mat 1(2) 199-218 (Apr 1996), 11A1314
Mechanics of Porous Media (Balkema, Rotterdam, Netherlands, 1995) 12N26
Conservation laws for thermo or poroelasticity, J Appl Mech 63(2) 331-336 (Jun 1996), 12A500
Stress singularity in three-phase bonded structure, J Appl Mech 63(2) 252-258 (Jun 1996), 12A501

250K. Residual stresses

Evaluation of residual stresses in stainless-steel claddings, Exp Mech 35(3) 205-211 (Sep 1995), 2A378
Multiple trenching: A simple self-calibrating method of residual-stress measurement, Exp Mech 35(3) 201-204 (Sep 1995), 2A379
Simplified numerical analysis of residual stresses in aluminum welded plates, Comput Struct 58(1) 59-69 (Jan 1996), 3A441
Solving 3D elastic problems in determining residual stresses in anisotropic materials, Mech Solids 30(4) 34-42 (1995), 7A510
Use of a virtual configuration in formulating constitutive equations for residually stressed elastic materials, J Elast 41(3) 177-215 (Dec 1995), 7A514
Hydrogen embrittlement of prestressing steel (Japanese), Proc JSCE 532(V-30) 131-140 (Feb 1996), 9A490
Thermomechanical technique for measuring residual stress, Exp Tech 20(2) 25-27 (Apr 1996), 9T1296
Stress analysis of transistor structures considering the internal stress of thin films, JSME Int J Ser A 39(2) 166-171 (Apr 1996), 10A580
Residual stress measurement in steel plates and welds using critically refracted longitudinal (L_{CR}) waves, Res Nondestructive Eval 7(4) 169-184 (1996), 10T871
Thermal residual stresses in bonded dissimilar materials and their singularities, JSME Int J Ser A 39(2) 197-203 (Apr 1996), 10A1340
Handbook of Measurement of Residual Stresses (Fairmont Press, Lilburn GA, 1996) 11N29
Development and experimental validation of the deep hole method for residual stress measurement, J Strain Anal Eng Des 31(3) 177-186 (May 1996), 11A434

250Y. Computational techniques

Traction-based completed adjoint double layer BEM in elasticity, Comput Mech 16(5) 360-367 (Aug 1995), 1A474
Calculation of boundary stresses with the Somigliana stress identity, Int J Numer Methods Eng 38(19) 3275-3295 (Oct 1995), 2A48
Simulation of highly elastic complex flows, J Non-Newtonian Fluid Mech 59(2-3) 111-128 (Sep 1995), 2A363
BEM treatment of body forces in plane orthotropic elastostatics, J Eng Mech 121(10) 1130-1135 (Oct 1995), 2A380
Boundary element approach to the solution of 3D problems of the theory of elasticity by the geometrical immersion method, J Appl Math Mech 59(2) 235-240 (1995), 2A381
Method of finding asymtotic forms at the common apex of elastic wedges, J Appl Math Mech 59(2) 187-195 (1995), 2A382
Deciding in elasticity problems by using Sturm's theorem, Comput Struct 58(1) 123-131 (Jan 1996), 3A442
Numerical analysis of stresses at oblique holes in plates subjected to tension and bending, J Strain Anal Eng Des 30(4) 317-323 (Oct 1995), 3A443
Second-order perturbation method for the stress analysis of solids with slightly wavy or irregular surfaces, JSME Int J Ser A 38(4) 433-439 (Oct 1995), 3A444
Simple transformations by proper contracted forms: Can we change the usual practice?, Commun Numer Methods Eng 11(10) 821-829 (Oct 1995), 3A645

State of stress and displacement under the ring foundations executed over the contour of a deep excavation, Arch Gornictwa 40(2) 159-175 (1995), 3A446
Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, Commun Numer Methods Eng 11(11) 951-961 (Nov 1995), 4A45
Spectral multipole method for efficient solution of large-scale BE models in elastostatics, Int J Numer Methods Eng 38(23) 4009-4034 (Dec 1995), 4A68
Error indicators for mixed FEs in 2D linear elasticity, Comput Methods Appl Mech Eng 127(1-4) 345-356 (Nov 1995), 4A440
Numerical solution of equilibrium problems for elastic solids with bounded tensile strength, Comput Methods Appl Mech Eng 127(1-4) 37-56 (Nov 1995), 4A441
Solution of problems of the theory of elasticity for a plane with a doubly symmetric two-cusp cut, J Appl Math Mech 59(3) 497-501 (1995), 4A442
Adaptive BEM for plane quasi-harmonic equation: Application to stress analysis of shaft, Comput Struct 58(4) 757-763 (Feb 1996), 4A537
Unstable propagation of a phase transition in a solid, Mech Mat 21(4) 313-323 (Nov 1995), 4A1322
Computational aspects of the logarithmic strain space description, Int J Solids Struct 33(5) 747-760 (Feb 1996), 5A421
Coupling of adaptively refined dual mixed FEs and BEs in linear elasticity, Adv Eng Software 24(1-3) 13-26 (1995), 5A422
Elastic stress and displacement distribution in an orthotropic multilayered system due to a concentrated load, Eng Anal Boundary Elements 16(1) 19-27 (1995), 5A423
Fundamental solutions of Laplace's potential operator and Navier's elasticity operator defined on Riemann spaces with two parallel, straight branch lines, Adv Eng Software 24(1-3) 27-41 (1995), 5A424
Numerical solution of large deformation problems involving stability and unilateral constraints, Comput Struct 58(6) 1245-1260 (Mar 1996), 5A425
Effect of elasticity on slip system activity in face-centered cubic crystals: A numerical study, Int J Solids Struct 33(8) 1069-1082 (Mar 1996), 6A381
Approximate solution of the thermoelastic contact problem with frictional heating in the general case of the profile shape, J Mech Phys Solids 44(2) 243-250 (Feb 1996), 7A503
Boundary strip method in elastostatics and potential equations, Int J Numer Methods Eng 39(3) 527-544 (Feb 1996), 7A515
Evaluation of the anisotropic Green's function in 3D elasticity, Comput Mech 17(4) 255-261 (Jan 1996), 7A516
Nonlinear computational solid mechanics (Chinese), J Dalian Univ Tech 35(6) 789-794 (1995), 7A517
Numerical analysis of singularities in 2D - Part 2: Computation of generalized flux-stress intensity factors, Int J Numer Methods Eng 39(3) 409-434 (Feb 1996), 7A518
Elasticity solutions of spherically isotropic cones under concentrated loads at apex, Appl Math Mech 16(11) 1025-1038 (Nov 1995), 7A621
Error estimates of semi-analytical solution of mixed state Hamiltonian element (Chinese), J Dalian Univ Tech 35(4) 437-441 (Aug 1995), 8A22
Geometrically versatile finite volume formulation for plane elastostatic stress analysis, J Strain Anal Eng Des 31(2) 111-116 (Mar 1996), 8A42
Existence and uniqueness of solutions by the covering domain method in linear elastostatics, Z Angew Math Mech 76(2) 93-104 (1996), 8A379
Numerical calculation of 2D effective moduli for microcracked solids, Int J Solids Struct 33(11) 1575-1586 (May 1996), 8A388
Efficient BEM for computing accurate stresses in 2D anisotropic problems, Comput Struct 59(3) 453-462 (May 1996), 8A400
Anharmonic properties of alkali halides and cyanides, Acta Phys Polonica A 89(1) 75-90 (Jan 1996), 9A485
Dual reciprocity formulation for elasticity problems with body forces using augmented thin plate splines, Commun Numer Methods Eng 12(3) 209-220 (Mar 1996), 9A491
Numerical integration of equations of plane and axisymmetrical problems of dynamic theory of elasticity in the complex form areas, Prikl Mekh (Appl Mech) 31(8) 53-60 (1995), 9A492
Two-grid method for regularized frictional elastostatics problems, Eng Comput 12(7) 657-664 (Oct 1995), 9A493
Procedure for numerical analysis of stress singularities at the corner points of 3D bodies, Mech Solids 30(5) 65-71 (1995), 10A518
Application of patched elements based on a previous FE solution in plane elasticity problems, Comput Struct 59(6) 1107-1113 (Jun 1996), 10A525
Boundary element method for micropolar elasticity, Int J Eng Sci 34(5) 509-521 (Apr 1996), 10A526
Non-equivalence of the conventional boundary integral formulation and its elimination for plane elasticity problems, Comput Struct 59(6) 1059-1062 (Jun 1996), 10A527
Numerical method to analyze compact cross-sections, Comput Struct 59(6) 1063-1072 (Jun 1996), 10A528
Optimal strain locations of 2D continuum elements in terms of field-consistency, Comput Struct 59(6) 1121-1138 (Jun 1996), 10A529
Higher order (HO2) plane-stress finite strip program, Comput Struct 60(2) 329-336 (Jul 1996), 11A435
Higher order (HO3) plane-stress finite strip program, Comput Struct 60(2) 315-327 (Jul 1996), 11A436
Boundary contour method for 3D linear elasticity, J Appl Mech 63(2) 278-286 (Jun 1996), 12A485
Numerical procedure for a nonlinear elastic problem for incompressible material based on a perturbation method, Comput Methods Appl Mech Eng 131(1-2) 31-39 (Apr 1996), 12A502
Representation of plane elastostatics operators in Daubechies wavelets, Comput Struct 60(4) 561-569 (Jun 1996), 12A503
Solution of the axisymmetric problem of integrated photoelasticity, J Machinery Manuf Reliab 1 35-40 (1996), 12A788

252. VISCOELASTICITY

Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation (French), J Hydraul Res 34(1) 35-53 (1996), 8T401

252A. General theory

Lie symmetry and conservation laws of thermodiffusion in viscoelastic materials, Facta Series Mech Auto Control Robotic 1(3) 305-312 (1993), 1A475
Stability condition for an extensive class of viscoelastic motions, J Elast 39(1) 17-29 (Apr 1995), 1A476
Time dependent behavior of concrete in early ages and its modeling (Japanese), Proc JSCE 590(V-28) 123-133 (Aug 1995), 2A415
Design sensitivity analysis in dynamic thermoviscoelasticity with implicit integration, Int J Solids Struct 33(4) 577-594 (Feb 1996), 4A443
Exponential stability of linear viscoelasticity and thermoviscoelasticity, Quart Appl Math 54(1) 21-31 (Mar 1996), 7A519
Viscoelastic material response with a fractional-derivative constitutive model, AIAA J 34(3) 596-600 (Mar 1996), 8A402
Vanishing relaxation limit of viscoelasticity, Math Mech Solids 1(2) 227-241 (Jun 1996), 11A437
Viscoelastic minimum principles revisited, J Appl Mech 63(2) 551-554 (Jun 1996), 12T504

252B. Linear theory

Inversion and quasi-static problems in linear viscoelasticity, Meccanica 30(3) 321-335 (Jun 1995), 1A477
Viscoelasticity equations of an elastomer layer, J Appl Math Mech 59(2) 209-216 (1995), 2A383
Power analysis of stressed-deformed state of viscoelastic disk with rigidly fixed faced under cyclic compression (Russian), Prikl Mekh (Appl Mech) 30(10) 60-66 (1994), 3A447
Initial-boundary value problems in linear viscoelasticity on the half-space, Math Methods Appl Sci 18(15) 1181-1214 (Dec 1995), 4A444
Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302 (Kluwer, MA, 1995) 5N27
Vibrations of a rotating viscoelastic axisymmetric body under surface load, Mech Solids 30(2) 66-73 (1995), 5A102
Dynamic surface solutions in linear elasticity and viscoelasticity with frictional boundary conditions, J Vib Acoust 117(4) 445-451 (Oct 1995), 5A391
Elastic instabilities in cone-and-plate flow: Small gap theory, Z Angew Math Phys 46(6) 946-959 (Nov 1995), 5A426
Load identification of inverse analysis with viscoelastic static displacement (Chinese), J Dalian Univ Tech 35(5) 618-622 (Oct 1995), 8A403
Stability of elastic and viscoelastic systems under a random perturbations of their parameters, Arch Appl Mech 66(4) 273-283 (Mar 1996), 9A494
Insdmissibility of separation of variables solutions in linear anisotropic viscoelasticity, Mech Composite Mat Struct 3(2) 97-100 (Jun 1996), 11A444

252C. Nonlinear and finite deformation problems

Existence of shock profiles for viscoelastic materials with memory, SIAM J Math Anal 26(5) 1130-1142 (Sep 1995), 1A198
One dimensional nonlinear viscoelastic constitutive equation of bituminous mixture (Japanese), Proc JSCE 590(V-28) 25-33 (Aug 1995), 2A7
Interfacial instabilities in plane Poiseuille flow of two stratified viscoelastic fluids with heat transfer - Part 1: Evolution equation and stability analysis, J Fluid Mech 299 241-265 (Sep 1995), 2A384
Nonlinear thermoviscoelastic stress and fracture analysis of an adhesive bond, J Mech Phys Solids 43(10) 1505-1549 (Oct 1995), 2A623
Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, J Non-Newtonian Fluid Mech 59(2-3) 191-213 (Sep 1995), 2A958
Applied model of deformation of nonlinear viscoelastic vibroinsulators under cyclic deformation (Russian), Prikl Mekh (Appl Mech) 30(9) 63-68 (1994), 3A448
Rubbery cure shrinkage model for analyzing encapsulated assemblies, J Electron Packaging 117(3) 249-254 (Sep 1995), 3A449
Effect of artifical stress diffusivity on the stability of numerical calculations and the flow dynamics of time-dependent viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 53-80 (Oct 1995), 3A453
Nonlinear hydrodynamic stability of viscoelastic fluids heated from below, J Non-Newtonian Fluid Mech 60(1) 1-26 (Oct 1995), 3A960
Effect of die geometry and flow characteristics on viscoelastic annular swell, J Non-Newtonian Fluid Mech 60(2-3) 107-128 (Nov 1995), 4A445
Flow behavior of 2D random foams, J Non-Newtonian Fluid Mech 60(2-3) 335-348 (Nov 1995), 4A446
Thermal imaging of hazardous organic fluids in concrete, Mat Struct 28(183) 526-533 (Nov 1995), 4A447
Wall effects on the flow of viscoelastic fluids around a circular cylinder, J Non-Newtonian Fluid Mech 60(2-3) 179-198 (Nov 1995), 4A969
Numerical simulation of transient planar flow of a viscoelastic material with two moving free surfaces, Int J Numer Methods Fluids 21(12) 1137-1151 (Dec 1995), 5A427
Two-dimensional cusp at the trailing edge of an air bubble rising in a viscoelastic liquid, J Fluid Mech 304 321-342 (Dec 1995), 6A946
Non-isothermal viscoelastic simulations of extrusion through dies and prediction of the bending phenomenon, J Non-Newtonian Fluid Mech 62(1) 55-79 (Jan 1996), 8A404
Numerical simulation of viscoelastic flows through a planar contraction, J Non-Newtonian Fluid Mech 62(2-3) 253-277 (Feb 1996), 8A405
Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, J Non-Newtonian Fluid Mech 63(1) 63-88 (Mar 1996), 10A1119
Motion of a solid sphere suspended by a Newtonian or viscoelastic jet, J Fluid Mech 315 367-385 (May 1996), 11A438
Nonlinear viscoelastic behavior of nylon fiber, Mech Mat 22(4) 301-310 (Apr 1996), 11A439
Shear and normal stress effects in finite circular shear of a compressible nonlinear viscoelastic solid, Int J Non-Linear Mech 31(3) 345-369 (May 1996), 11A440
Thermodynamics, stability, and nonlinear oscillations of viscoelastic solids - I: Differential type solids of second grade, Int J Non-Linear Mech 31(4) 495-516 (Jul 1996), 12A505
Uniqueness of solutions of non-homogeneous and anisotropic problems of nonlinear viscoelasticity, Int'J Non-Linear Mech 31(4) 419-423 (Jul 1996), 12A506
Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, J Non-Newtonian Fluid Mech 64(1) 71-92 (May 1996), 12A1046
Operator splitting algorithm for viscoelastic flow and numerical analysis for the flow around a sphere in a tube, J Non-Newtonian Fluid Mech 63(2-3) 121-140 (Apr 1996), 12A1048

252F. Creep

Analysis of creep transients in pure metals following stress changes, Acta Metall Mat 43(9) 3247-3260 (Sep 1995), 1A478
Investigation of a high accuracy uni-axial creep testpiece with slit extensometer ridges, Arch Mech 47(2) 261-279 (1995), 1A479
Simplified analysis of creep stress redistribution for materials exhibiting primary creep, Int J Pressure Vessels Piping 65(2) 181-186 (1996), 1A480
Experimental evaluation of the influence of stress state type on creep characteristics of copper at 523 K, Arch Mech 47(1) 13-26 (1995), 1A487
Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, Composites 26(9) 611-617 (Sep 1995), 1A537
Transient creep analysis of ball indentation, Int J Mech Sci 37(11) 1179-1202 (Nov 1995), 2A385
Optimal design of disks with respect to ductile creep rupture time, Struct Optim 10(1) 54-60 (Aug 1995), 2A728
Proposal on the formula to evaluate the force due to creep and shrinkage of the prestressed concrete structure (Japanese), Proc JSCE 590(V-28) 249-258 (Aug 1995), 2T768
Constitutive description of creep curves based on internal stress evolution, Acta Metall Mat 43(11) 3947-3957 (Nov 1995), 3A450
Steady-state power-law creep in "inclusion matrix" composite materials, Acta Metall Mat 43(11) 4027-4034 (Nov 1995), 3A451
Compression creep of pultruded E-glass-reinforced-plastic angles, J Mat in Civil Eng 7(4) 269-276 (Nov 1995), 3A513
Thermostressed state of laminar shells of revolution with regard for creep deformation in the layers of orthotropic-materials under simple process of loading (Russian), Prikl Mekh (Appl Mech) 30(9) 46-49 (1994), 3A541
Creep phenomenon of simple composite structures, J Composite Mat 29(15) 2069-2089 (1995), 4A448
Strengthening caused by power law creep deformation of dispersed particles in an elastic matrix, Int J Mech Sci 38(2) 203-218 (Feb 1996), 4A449
Tensile creep and creep rupture of continuous strand mat polypropylene composites, J Composite Mat 29(16) 2215-2227 (1995), 4A450
Creep characteristics of glass reinforced cement under flexural loading, Cement & Concrete Composites 17(4) 267-279 (1995), 4A490
Air-environment-creep interaction in a nickel base superalloy, Eng Failure Anal 2(3) 191-196 (Sep 1995), 4A686
Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, Mech Mat 21(4) 303-312 (Nov 1995), 4A734
Flow lines in creep deformation, Mech Solids 30(2) 84-93 (1995), 5A428
Inverse problems of nonelastic deformation, Mech Solids 30(2) 74-83 (1995), 5A429
Investigation of transient creep by means of endochronic viscoplasticity and experiment, J Eng Mat Tech 117(3) 260-268 (Jul 1995), 5A430
Effect of surface asperity on interfacial contact process controlled by power law creep: Numerical study of viscoplastic adhering process, J Eng Mat Tech 117(3) 330-335 (Jul 1995), 5A446
Experimental study of interfacial contacting process controlled by power law creep, J Eng Mat Tech 117(3) 336-340 (Jul 1995), 5A448
Matrix creep accommodation in diffusion controlled phase transformations, Acta Mat 44(2) 763-773 (Feb 1996), 6A390
Creep analysis of continuous grillage composite girders (Japanese), Proc JSCE 526(II) 11-20 (Nov 1995), 6A438
Link between crack velocity and rupture time in creeping solids, Eng Fracture Mech 53(2) 213-230 (Jan 1996), 6A643
Stress and damage distribution near the tip of a crack growing under creep, Mech Solids 30(3) 144-149 (1995), 6T678
Predictions of creep failure in aeroengine materials under multi-axial stress states, Int J Mech Sci 38(4) 385-403 (Apr 1996), 7A795
Physics of Creep (Taylor & Francis, PA, 1995) 8R10
Creep damage simulation of thick-walled tubes using the θ projection concept, Int J Pressure Vessels Piping 67(1) 105-111 (1996), 8A406
Creep deformation and rupture of low alloy ferritic weldments under shear loading, J Strain Anal Eng Des 31(2) 125-133 (Mar 1996), 8A407
Creep of metal-type organic compounds - II: Indentation creep, Acta Mat 44(3) 891-897 (Mar 1996), 8A408
Creep simulation of polymer matrix-dispersed filler composites (Russian), Mech of Composite Mat T31(6) 754-768 (Dec 1995), 8A409
Microphysical model of Harper-Dorn creep, Acta Mat 44(3) 855-862 (Mar 1996), 8A410
Modeling creep failure in welded plates under uniaxial loading, J Strain Anal Eng Des 31(2) 117-124 (Mar 1996), 8A411
Steady state creep behavior of particulate-reinforced titanium matrix composites, Acta Mat 44(3) 927-935 (Mar 1996), 8A412
Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide, J Mat Res 10(11) 2925-2932 (Nov 1995), 8A449
Crack-tip asymptotic character of anti-plane stress and strain rate for linear fractional constitutive relations, Theor Appl Fracture Mech 24(3) 263-268 (Mar 1996), 8A625
Design for Creep, Second Edition (Chapman and Hall, New York, 1995) 9R8
Biaxial creep study of copper on the basis of isochronous creep surfaces, Arch Mech 48(1) 89-109 (1996), 9A495
Description of creep strain anisotropy of the lignostone in the form of tensor polynomial and a modified tensor polynomial, Eng Trans 43(3) 397-411 (1995), 9A496
Power-law creep blunting of contacts and its implications for consolidation modeling, Acta Mat 44(4) 1479-1495 (Apr 1996), 9A497
Predicting creep towards high-strength concrete, Proc JSCE 532(V-30) 173-181 (Feb 1996), 9A498
Steady-state creep of metal-ceramic multilayered materials, Acta Mat 44(4) 1337-1348 (Apr 1996), 9A499
Simplified analysis of cyclic elastoplastic creep responses in elevated temperature structures under cyclic loading, Int J Pressure Vessels Piping 67(2) 127-135 (Jul 1996), 9A513

Compression model for non-brittle soft clays and peat, Geotechnique 46(1) 1-16 (Mar 1996), 9A662
CLIP: Computer software for creep life prediction of engineering materials, Eng Fracture Mech 54(1) 71-73 (May 1996), 10A530
Experimental creep study of metals under multiaxial stress conditions, J Theor Appl Mech 34(2) 405-422 (1996), 10A531
Optimal structural design under creep conditions, Appl Mech Rev 49(9) 433-446 (Sep 1996), 10A880
High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, Nucl Eng Des 162(1) 13-20 (Mar 1996), 11A441
Simple endochronic transient creep model of metals with applications to variable temperature creep, Int J Plasticity 12(2) 239-253 (1996), 11A442
Creep-fatigue damage assessment by subsequent fatigue straining, Nucl Eng Des 162(1) 97-106 (Mar 1996), 11A652
Analysis of the impression creep test method using a rectangular indenter for determining the creep properties in welds, Int J Mech Sci 38(10) 1089-1102 (Oct 1996), 12A507
Spectral stochastic FE analysis of periodic random thermal creep stress in concrete, Eng Struct 18(9) 669-674 (Sep 1996), 12A508
Orthotropic creep and complex moduli of a viscoelastic composite reinforced with aligned elliptic fibers, J Composite Mat 30(9) 1042-1066 (1996), 12A551
Strain localization in creep testing of samples with heterogeneous microstructures, Int J Pressure Vessels Piping 68(2) 135-143 (1996), 12A725

252G. Stress relaxation

Description of the stress relaxation process under plane stress conditions, Int J Pressure Vessels Piping 65(1) 97-100 (1996), 1A481
Visco-plastic relaxation: Convergence and localization, Eur J Mech A 14(6) 961-979 (1995), 4A467
Description of the mechanical relaxation of highly oriented polymers based on their relaxation spectra (Russian), Mech of Composite Mat T31(5) 584-590 (Oct 1995), 7A520
Stress relaxation: Experiment, theory and computer simulation, Mech of Composite Mat T31(5) 591-606 (Oct 1995), 7A521

252H. Contact problems, inclusions, and other mechanisms

Crack and Contact Problems for Viscoelastic Bodies (Springer-Verlag, Wien, 1995) 2N25
Dissipative graph solutions for a 2 dof quasistatic frictional contact problem, Int J Eng Sci 33(13) 1959-1986 (Oct 1995), 2A386
Inertial effects in a steady-state normal viscoelastic contact problem, Trans Can Soc Mech Eng 19(3) 301-316 (1995), 3A452
Back analysis of viscoelastic rock masses with circular or elliptical tunnel (Japanese), J Soc Mat Sci Japan 44(504) 1183-1188 (Sep 1995), 3A594
Thermal expansion of polycrystalline aggregates consisting of elongated crystals and containing cylindrical pores or inclusions, J Mech Phys Solids 44(1) 137-153 (Jan 1996), 6A1173
Viscoelastic moving-contact problem with inertial effects included, Quart J Mech Appl Math 49(1) 107-135 (Feb 1996), 7A522
Stress-strained state of viscoelastic half-plane with round inclusions, Prikl Mekh (Appl Mech) 31(9) 73-79 (1995), 9A500
Kalker's method applied to some improper integrals in fracture mechanics, Eng Fracture Mech 54(2) 229-237 (May 1996), 10A829

252I. Material characterization

Characterization of the dynamic properties of viscoelastic elements by the direct stiffness and master curve methodologies - Part I: Design of load frame and fixtures, J Sound Vib 186(4) 623-647 (Oct 1995), 3A171
Compressive strength of structural fly ash concrete (French), Mat Struct 28(182) 459-463 (Oct 1995), 3A484
Finite element modeling of frequency-dependent and temperature-dependent dynamic behavior of viscoelastic materials in simple shear, Int J Solids Struct 33(3) 419-432 (Jan 1996), 4A8
Inelastic Deformation of Metals: Models, Mechanical Properties, and Metallurgy (Wiley, New York, 1996) 5R16
Viscoelastic damping of particle and fiber reinforced composite materials, J Acoust Soc Am 98(6) 3360-3374 (Dec 1995), 5A431
Path dependence of shape memory alloys during cyclic loading, J Intelligent Mat Syst Struct 6(6) 817-830 (Nov 1995), 7T523
Three-dimensional phase transformation model for shape memory alloys, J Intelligent Mat Syst Struct 6(6) 831-839 (Nov 1995), 7A524
Physics of Creep (Taylor & Francis, PA, 1995) 8R10

252K. Anisotropic and nonhomogeneous media

Analysis of viscoelastic behavior of fiber composite materials with time dependence of the interface, J Soc Mat Sci Japan 44(502) 911-915 (Jul 1995), 1A482
Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, Eur J Mech A 14(6) 939-960 (1995), 4A512
Description of creep strain anisotropy of the lignostone in the form of tensor polynomial and a modified tensor polynomial, Eng Trans 43(3) 397-411 (1995), 9A496
Bounds for the overall properties of viscoelastic heterogeneous and composite materials, Arch Mech 47(6) 1125-1155 (1995), 9A501
Influence of dewetting in filled elastomers on the changes of their mechanical properties, Arch Appl Mech 66(4) 231-241 (Mar 1996), 9A502
Void growth and stress-strain relations of a class of viscoelastic porous materials, Mech Mat 22(3) 179-188 (Mar 1996), 10A532
Elastic-viscoplastic behavior of fiber-reinforced thermoplastic composites, J Reinforced Plastics Composites 15(4) 360-377 (Apr 1996), 10A574
Finite element method for nonlinear viscoelastic analysis of laminated composite plates (Chinese), J Dalian Univ Tech 36(3) 252-257 (May 1996), 11A443
Inadmissibility of separation of variables solutions in linear anisotropic viscoelasticity, Mech Composite Mat Struct 3(2) 97-100 (Jun 1996), 11A444
Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), J Soc Mat Sci Japan 45(5) 517-521 (May 1996), 12A543
Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), J Soc Mat Sci Japan 45(5) 496-501 (May 1996), 12A554
Viscoelastic analysis of thick-walled filament-wound composite cylinders with elevated temperatures, AIAA J 34(7) 1526-1529 (Jul 1996), 12T555

252Y. Computational techniques

Computational prediction and redesign for viscoelastically damped structures, Comput Methods Appl Mech Eng 125(1-4) 1-16 (Sep 1995), 1A483
Higher order FE techniques for viscoelastic flow problems with change of type and singularities, J Non-Newtonian Fluid Mech 59(1) 49-72 (Aug 1995), 1A484
Numerical analysis of a FEM for a transient viscoelastic flow, Comput Methods Appl Mech Eng 125(1-4) 171-185 (Sep 1995), 1A485
Stochastic multi-objective optimization of a viscoelastic composite plate (Russian), Mech of Composite Mat T31(3) 363-369 (Jun 1995), 1A486
Incremental formulation for the linear analysis of thin viscoelastic structures using generalized variables, Int J Numer Methods Eng 38(19) 3315-3333 (Oct 1995), 2A387
New mixed FEM for viscoelastic flows governed by differential constitutive equations, J Non-Newtonian Fluid Mech 59(2-3) 215-243 (Sep 1995), 2A388
Numerical simulation of complex flows of non-Newtonian fluids using the stream tube method and memory integral constitute equations, Int J Numer Methods Fluids 21(5) 371-389 (Sep 1995), 2A389
Substructure synthesis method for non-symmetric viscoelastic systems, J Sound Vib 185(4) 627-641 (Aug 1995), 2A390
Effect of artifical stress diffusivity on the stability of numerical calculations and the flow dynamics of time-dependent viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 53-80 (Oct 1995), 3A453
Modeling of pressureless constant heating rate sintering of ceramic matrix composites, J Mat Processing Tech 53(3-4) 617-629 (Sep 1995), 3A454
New mixed FEM for computing viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 27-52 (Oct 1995), 3A455
Split Lagrangian-Eulerian method for simulating transient viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 81-104 (Oct 1995), 3A456
Comparison of three solvers for viscoelastic fluid flow problems, J Non-Newtonian Fluid Mech 60(2-3) 155-177 (Nov 1995), 4A18
Initial-boundary value problems in linear viscoelasticity on the half-space, Math Methods Appl Sci 18(15) 1181-1214 (Dec 1995), 4A444
Flow behavior of 2D random foams, J Non-Newtonian Fluid Mech 60(2-3) 335-348 (Nov 1995), 4A446
Efficient simulation of nonlinear viscoelastic fluid flows, J Non-Newtonian Fluid Mech 60(2-3) 199-223 (Nov 1995), 4A451
Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, Eur J Mech A 14(6) 939-960 (1995), 4A512
Numerical simulation of transient planar flow of a viscoelastic material with two moving free surfaces, Int J Numer Methods Fluids 21(12) 1137-1151 (Dec 1995), 5A427
Finite element analysis of dynamic behavior of viscoelastic materials using FFT, JSME Int J Ser A 39(1) 71-77 (Jan 1996), 7A19
Load identification of inverse analysis with viscoelastic static displacement (Chinese), J Dalian Univ Tech 35(5) 618-622 (Oct 1995), 8A403
Non-isothermal viscoelastic simulations of extrusion through dies and prediction of the bending phenomenon, J Non-Newtonian Fluid Mech 62(1) 55-79 (Jan 1996), 8A404
Numerical simulation of viscoelastic flows through a planar contraction, J Non-Newtonian Fluid Mech 62(2-3) 253-277 (Feb 1996), 8A405
Boundary element method for transient viscoelastic flow: The MPTT model, Trib Trans 39(2) 314-321 (Apr 1996), 8A413
Dynamic system identification of the response behavior of linear viscoelastic materials, Int J Pressure Vessels Piping 67(1) 45-54 (1996), 8A414
General non-inertial initial-boundary-value problem for a viscoelastic aging solid with piecewise-continuous accretion, J Appl Math Mech 59(5) 805-816 (1995), 8A415
Calculation of stresses in crosslinking polymers, J Composite Mat 30(1) 13-34 (1996), 8A471
Reflection characteristics of longitudinal waves in a semi-infinite cylindrical rod connected to an infinite viscoelastic stratum, Acta Mech Solida Sinica 9(1) 66-80 (1996), 9A270
Stability of zero solution of mathematical model of multidimensional barotropic viscoelastic medium, Nonlinear Anal 26(12) 1937-1950 (Jun 1996), 10T533
Discretization with variable time steps of an evolution equation with a positive-type memory term, J Comput Appl Math 69(1) 49-69 (Apr 1996), 12A509
Numerical application of fractional derivative model constitutive relations for viscoelastic materials, Comput Struct 60(6) 875-882 (Jul 1996), 12A510
Viscoelastic simulation of PET stretch-blow molding process, J Non-Newtonian Fluid Mech 64(1) 19-42 (May 1996), 12A511
Modeling of dynamic problems for viscoelastic composites, Int J Eng Sci 34(8) 923-932 (Jun 1996), 12A578

252Z. Experimental techniques

Investigation of a high accuracy uni-axial creep testpiece with slit extensometer ridges, Arch Mech 47(2) 261-279 (1995), 1A479
Experimental evaluation of the influence of stress state type on creep characteristics of copper at 523 K, Arch Mech 47(1) 13-26 (1995), 1A487
Determination of ball and roller compliances using a vibration measuring technique, J Trib 117(3) 553-557 (Jul 1995), 5A392
LDA measurements of steady streaming flows of Newtonian and viscoelastic fluids, Exp Fluids 20(1) 21-28 (Nov 1995), 5A896
Description of creep strain anisotropy of the lignostone in the form of tensor polynomial and a modified tensor polynomial, Eng Trans 43(3) 397-411 (1995), 9A496
Influence of dewetting in filled elastomers on the changes of their mechanical properties, Arch Appl Mech 66(4) 231-241 (Mar 1996), 9A502
Experimental creep study of metals under multiaxial stress conditions, J Theor Appl Mech 34(2) 405-422 (1996), 10A531
System for measuring biaxial creep strains over short gage lengths, Exp Mech 36(1) 84-91 (Mar 1996), 10A849
Nonlinear viscoelastic behavior of nylon fiber, Mech Mat 22(4) 301-310 (Apr 1996), 11A439

254. PLASTICITY AND VISCOPLASTICITY

254A. General theory

Constitutive Equations for Engineering Materials Volume 2: Plasticity and Modeling (Elsevier, New York, 1994) 1R15
Cosserat plasticity and plastic spin, Appl Mech Rev 48(11) 753-762 (Nov 1995), 1A488
Epi-limit on HB and homogenization of heterogeneous plastic plates, Nonlinear Anal 25(5) 499-529 (Sep 1995), 1T489
Introduction of nonproportionality functions in standard plasticity by splitting of the plastic work increment, Eur J Mech A 14(4) 605-632 (1995), 1A490
Model for rate-dependent plasticity, J Mech Phys Solids 43(9) 1497-1503 (Sep 1995), 1A491
Physical theory of asymmetric plasticity, Appl Math Mech 16(5) 493-506 (May 1995), 1A492
Plastic spin associated with a corner theory of plasticity, Int J Plasticity 11(5) 547-570 (1995), 1A493
Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), J Brazilian Soc Mech Sci 17(1) 77-88 (1995), 2A391
Analysis of rate- and material parameter-dependent limiting cases in viscoplasticity laws, Int J Solids Struct 33(2) 149-166 (Jan 1996), 3A457
Inelastic behavior of solids - Part I: Twinning, Int J Plasticity 11(6) 653-678 (1995), 3A458
Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), J Brazilian Soc Mech Sci 17(1) 77-88 (1995), 3A459
Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, JSME Int J Ser A 38(4) 547-553 (Oct 1995), 3A460
Plastic constitutive model for anisotropic hardening metals, Eur J Mech A 14(5) 679-696 (1995), 3A461
Study of thermodynamic restrictions, constraint conditions, and material symmetry in fully strain-space theories of plasticity, Int J Plasticity 11(6) 679-724 (1995), 3A462
Scale dependent constitutive relations: Information from wavelet analysis and application to localization problems, Eur J Mech A 14(6) 873-892 (1995), 4A3
Recent FE applications of the incremental endochronic plasticity, Int J Plasticity 11(7) 843-865 (1995), 4A15
Control of deformation process by plastic strain, Int J Plasticity 11(7) 827-842 (1995), 4A452
Fundamental issues in rate theory of damage-elastoplasticity, Int J Plasticity 11(7) 763-797 (1995), 4A453
Internal dissipation, relaxation property, and free energy in materials with fading memory, J Elast 40(2) 107-122 (Aug 1995), 4A454
Solution of the elastic and visco-plastic constitutive equations: A finite volume approach, Appl Math Model 19(12) 746-760 (Dec 1995), 4A455
Materials with a falling diagram, Mech Solids 30(2) 168-169 (1995), 5T432
Modeling of plasticity and damage in a polycrystalline microstructure, Int J Plasticity 11(8) 949-970 (1995), 5A433
Plasticity including the Bauschinger effect, studied by a neural network approach, Acta Mech 113(1-4) 63-75 (1995), 5A434
Remark on consequences of the work assumption of Naghdi and Trapp for elastic-plastic materials, Z Angew Math Phys 46(6) 982-988 (Nov 1995), 5A435
Elastic-plastic torsion of a Cosserat-type rod, Acta Mech 113(1-4) 53-62 (1995), 5A447
Asymptotic structure of an adiabatic shear band in antiplane motion, J Mech Phys Solids 44(1) 77-97 (Jan 1996), 6A179
Closed form solution of stress and strain concentration factors of axially symmetric bodies with small scale plasticity by means of the conservative integral method, Int J Solids Struct 33(8) 1105-1117 (Mar 1996), 6A382
Condensed method for linear complementary equations of elasto-plastic problems, Appl Math Mech 16(10) 925-936 (Oct 1995), 6A385
Cauchy and characteristic boundary value problems of random rigid-perfectly plastic media, Int J Solids Struct 33(8) 1119-1136 (Mar 1996), 6A391
Comments on plasticity postulates and non-associative flow rules, Int J Mech Sci 38(3) 247-258 (Mar 1996), 6A392
Comments on the Mroz multiple surface type plasticity models, Int J Solids Struct 33(7) 1053-1068 (Mar 1996), 6A393
Elastoplastic properties of polycrystals, Mech Solids 30(3) 99-104 (1995), 6T394
Generalized plasticity and shape-memory alloys, Int J Solids Struct 33(7) 991-1003 (Mar 1996), 6A395
Static and kinematic relations of ideal plasticity under piecewise linear yield conditions, Mech Solids 30(3) 92-98 (1995), 6A396
Cross effect in aluminium tubes subjected to torsion and tension, JSME Int J Ser A 39(1) 124-128 (Jan 1996), 7A525
Saint-Venant plastic flow in plane spiral confusor (Russian), Mech of Composite Mat T31(5) 684-691 (Oct 1995), 7A526
Solution of dynamic problems of the plasticity theory under plane deformation (Russian), Prikl Mekh (Appl Mech) 31(5) 68-74 (1995), 7A527
Design of New Materials and Strengthening Technologies (Cambridge Int Sci, UK, 1995) 8N14
Family of invariant stress surfaces, J Eng Mech 122(3) 201-208 (Mar 1996), 8A416

Identification of yield-line collapse mechanisms, Eng Struct 18(4) 332-337 (Apr 1996), 8A417
Ill-Posedness of the initial and boundary value problems in non-associative plasticity, Acta Mech 114(1-4) 1-25 (1996), 8A418
Ductile damage model corresponding to the dissipation of ductility of metal, Eng Fracture Mech 53(4) 653-659 (Mar 1996), 8A629
Formulation of viscoplasticity laws using overstresses, Acta Mech 115(1-4) 179-202 (1996), 9A503
Symmetry and coaxiality of pertinent stretch and stress tensors during non-proportional loading at finite plastic strain, Acta Mech 115(1-4) 1-14 (1996), 9A505
Optimization of the manufacturing process of a titanium aluminide metal matrix composite using a viscoplastic constitutive theory, J Eng Mat Tech 118(2) 235-240 (Apr 1996), 10A506
Linearized equations for kinematically-determinate problems, Mech Solids 30(6) 93-96 (1995), 10T534
Plastic bending of notched strips made of materials whose properties depend on the type of stress state, Mech Solids 30(5) 103-110 (1995), 10T535
Velocity field near its discontinuity in an arbitrary flow of an ideal rigid-plastic material, Mech Solids 30(5) 111-117 (1995), 10T536
Generalized failure criterion for 3D behavior of isotropic materials, Eng Fracture Mech 54(1) 75-90 (May 1996), 10A765
Failure criterion, flow rule and dissipation function derived from hypoelasticity, Mech Cohesive-Frictional Mat 1(2) 145-163 (Apr 1996), 11A445
Global existence of weak solutions to the boundary value problem for a 3D viscoelastic dynamic system, J Elast 42(2) 99-114 (Feb 1996), 11A446
Characteristics of the Armstrong-Frederick type plasticity models, Int J Plasticity 12(3) 387-415 (1996), 12A512
Mechanical behavior of zinc single crystals, Facta Univ Mech Auto Control Robotic 1(5) 589-603 (1995), 12A513
General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, J Appl Mech 63(2) 376-382 (Jun 1996), 12A515

254C. Nonlinear and finite deformation problems

Accelaration waves in finitely deformed elastic-plastic solids, Eur J Mech A 14(4) 529-551 (1995), 1A195
Determination of finite plastic deformations in single crystals, Arch Mech 47(2) 203-222 (1995), 1A494
Effect of temperature on the mechanical properties of mechanically-alloyed materials at high strain rates, Acta Metall Mat 43(9) 3275-3282 (Sep 1995), 1A495
Evidence of region I deformation behavior in 7475 Al alloy, Int J Pressure Vessels Piping 65(1) 89-95 (1996), 1A496
Renewal theory of inelasticity, Mech Mat 21(2) 99-117 (Aug 1995), 1A497
Variational principle for constructing the equations of elastoplasticity for finite deformations, J Appl Math Mech 59(1) 147-150 (1995), 1A498
Axisymmetrical quasi-Kirchhoff-type shell element for large plastic deformations, Arch Appl Mech 65(7) 465-477 (Sep 1995), 2A29
Perforation of rigid-plastic plate by blunt missile, Int J Impact Eng 16(5-6) 739-758 (Dec 1995), 2A165
Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, J Non-Newtonian Fluid Mech 59(2-3) 245-265 (Sep 1995), 2A392
Hysteretic models of plasticity, Stability Appl Anal Continuous Media 3(2) 99-109 (Jun 1993), 2T393
Perturbation analysis of extrusion of porous metal materials, Appl Math Model 19(10) 601-612 (Oct 1995), 2A394
How to describe large elastic deformation, Mech Solids 30(1) 73-76 (1995), 3A1
Effects of hypoelastic model and plastic hardening on numerical simulation: Shear deformation of 2D plane block, JSME Int J Ser A 38(4) 531-540 (Oct 1995), 3A463
Kinetic equation for damage during superplastic deformation, J Mat Processing Tech 52(2-4) 270-279 (Jul 1995), 3A464
Crack tip field in a rubber sheet, Eur J Mech A 14(5) 665-677 (1995), 3A515
Fully plastic ductile tearing of HY130 steel: An analysis by j,COD, energy rate and crack opening angle, J Strain Anal Eng Des 30(4) 257-269 (Oct 1995), 3A689
Large-scale crystal plasticity computations of microstructural failure modes, Comput Syst Eng 6(3) 225-240 (Jun 1995), 4A456
Modeling drawbeads in sheet metal forming, Int J Mech Sci 38(1) 59-77 (Jan 1995), 4A629
Post-critical plastic deformation of biaxially stretched sheets, Int J Solids Struct 33(5) 689-705 (Feb 1996), 5A436
Yield surfaces and principle of superposition: Revisit through incrementally nonlinear constitutive relations, Int J Plasticity 11(8) 927-948 (1995), 5A437
Quantitative visualization of a submerged pseudo-plastic jet using particle image velocimetry, J Fluids Eng 117(3) 369-373 (Sep 1995), 5A953
Theory of large-strain isotropic thermoplasticity based on metric transformation tensors, Arch Appl Mech 66(1-2) 45-64 (Dec 1995), 5A1190
Impact deformation of polymeric projectiles, Int J Impact Eng 18(2) 119-127 (Mar 1996), 6A188
Impact loading of plates and shells by free-flying projectiles: A review, Int J Impact Eng 18(2) 141-230 (Mar 1996), 6A189
Stable supercritical deformation of elastoplastic specimens constrained by a casing with finite stiffness, Mech Solids 30(3) 105-121 (1995), 6T397
Stress and strain analysis of plates subjected to transverse wedge impact, J Strain Anal Eng Des 31(1) 1-7 (Jan 1996), 6A477
Tension zone model of blanking and tearing of ductile metal plates, Int J Mech Sci 38(3) 303-324 (Mar 1996), 6A554
Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, JSME Int J Ser A 39(1) 99-107 (Jan 1996), 7A25
Analysis of two models of super-deep penetration, Eng Fracture Mech 53(3) 399-423 (Feb 1996), 7A250
Instability limits to the forming of sheet metals, J Mat Processing Tech 55(3-4) 146-153 (Dec 1995), 7A733
Dynamic response of elasto-plastic planar arches, Struct Eng and Mech 4(1) 9-23 (Jan 1996), 8A419
Effect of void shape on the macroscopic response of nonlinear porous solids, Int J Plasticity 12(1) 45-68 (1996), 8A420
Large plastic deformation of tubular beams under impact loading, Struct Eng and Mech 3(5) 463-474 (Sep 1995), 8A421
Modeling the necking of tension members using a theory of rods, Mech Res Commun 23(2) 137-143 (Apr 1996), 8A422
Numerical analysis of the large deflection of an elastoplastic cantilever, Struct Eng and Mech 3(2) 163-172 (Mar 1995), 8A423
Squeeze flow of a power-law viscoplastic solid, J Non-Newtonian Fluid Mech 62(1) 35-54 (Jan 1996), 8A424
High strain rate deformation in particle reinforced metal matrix composites, Acta Mat 44(3) 1011-1019 (Mar 1996), 8A442
Load carrying capacities of circular rings with arc-shaped supports, Int J Pressure Vessels Piping 67(1) 7-10 (1996), 8A482
Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, Struct Eng and Mech 4(1) 25-35 (Jan 1996), 8A719
Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), J Comput Struct Mech Appl 12(1) 69-75 (Feb 1995), 9A29
Meso-elastoplastic constitutive equation with application to deformation-induced anisotropy of a polycrystalline aggregate, Arch Mech 48(1) 53-65 (1996), 9A504
Symmetry and coaxiality of pertinent stretch and stress tensors during non-proportional loading at finite plastic strain, Acta Mech 115(1-4) 1-14 (1996), 9A505
Prediction of bending collapse behaviors of thin-walled open section beams, Thin-Walled Struct 25(3) 185-206 (1996), 10A626
Verification of a cohesive zone model for ductile fracture, J Eng Mat Tech 118(2) 192-200 (Apr 1996), 10A787
Shear capacity of plate girders with trapezoidally-corrugated webs, Thin-Walled Struct 26(1) 19-44 (1996), 11A15
Dynamics of a state variable frictional law in FE analysis, Finite Elements Anal Des 22(1) 25-40 (May 1996), 11A29
Failure criterion, flow rule and dissipation function derived from hypoelasticity, Mech Cohesive-Frictional Mat 1(2) 145-163 (Apr 1996), 11A445
Approximate yield criterion for voided nonlinear materials, Mech Mat 22(4) 291-300 (Apr 1996), 11A447
Inelastic large deflection analysis of structural steel members under cyclic loading, Eng Struct 18(9) 659-668 (Sep 1996), 12A1407

254D. Stress concentrations and singularities

Estimates of local tensile strength of welded joints, Int J Pressure Vessels Piping 65(1) 41-45 (1996), 1A499
Stress analysis of drillstring threaded connection using the FEM, Eng Failure Anal 2(1) 1-30 (Mar 1995), 2A10
Pseudo stress and pseudo strain based approaches to multiaxial notch analysis, Fatigue Fracture Eng Mat Struct 18(9) 981-1006 (Sep 1995), 2A395
Measurement of cyclic biaxial elastoplastic stresses at notch roots, J Appl Mech 62(3) 646-653 (Sep 1995), 5A438
Blunting line in elastic-plastic fracture, Fatigue Fracture Eng Mat Struct 18(11) 1289-1297 (Nov 1995), 5A626
Materials Processing Defects - Studies in Applied Mechanics series, Vol 43 (Elsevier Sci, New York, 1995) 6N24
Topical problems of strain-based fracture criteria, Mech Solids 30(3) 130-133 (1995), 6A679
Growth behavior of sawtoothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), J Soc Mat Sci Japan 45(2) 169-175 (Feb 1996), 9A507
Strain concentrations in pressurized dented pipes, Proc Inst Mech Eng E 210(E1) 29-38 (1996), 9A972
Plastic bending of notched strips made of materials whose properties depend on the type of stress state, Mech Solids 30(5) 103-110 (1995), 10T535
Elastic-plastic strain distributions at fillet welds, J Strain Anal Eng Des 31(3) 215-230 (May 1996), 11A448
Modeling study of the effect of stress state on void linking during ductile fracture, Acta Mat 44(6) 2201-2210 (Jun 1996), 11A670
Elastic-Plastic Fracture Laboratory Test Procedures, Manual 27 (ASTM, 1996) 12N24

254E. Contact problems and inclusions

Contact Mechanics II - Computational Techniques (Comput Mech, Billerica MA, 1995) 2N24
Consistent penalty method for contact between a deforming viscoplastic workpiece and a rigid tool, Int J Numer Methods Eng 38(23) 3969-3987 (Dec 1995), 4A457
Development of plastic zones and residual stress in elasto-plastic contact problems with stress singularities in elastic range, Int J Mech Sci 38(2) 175-190 (Feb 1996), 4A458
Finite element-mathematical programming method for elastoplastic contact problems with friction, Finite Elements Anal Des 20(4) 273-282 (Sep 1995), 4A459
Critical stretch for formation of a cylindrical void in a compressible hyperelastic material, Int J Non-Linear Mech 30(6) 899-914 (Nov 1995), 5A402
Contribution of surface irregularities to rolling contact plasticity in bearing steels, J Trib 117(4) 660-666 (Oct 1995), 5A439
Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, J Mat Processing Tech 55(1) 5-10 (Nov 1995), 6A18
Stable supercritical deformation of elastoplastic specimens constrained by a casing with finite stiffness, Mech Solids 30(3) 105-121 (1995), 6T397
Adaptive FE algorithm for contact problems in plasticity, Comput Mech 17(1-2) 88-97 (Dec 1995), 6A398
Penetration of a thin, sharp-pointed rigid indentor into a transversally isotropic medium, Mech Solids 30(4) 103-106 (1995), 7T528
Power-law creep blunting of contacts and its implications for consolidation modeling, Acta Mat 44(4) 1479-1495 (Apr 1996), 9A497
Fractal model for the rigid-perfectly plastic contact of rough surfaces, J Appl Mech 63(1) 47-54 (Mar 1996), 9A506
Growth behavior of sawtoothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), J Soc Mat Sci Japan 45(2) 169-175 (Feb 1996), 9A507
Transverse deflection of a cold-worked metal plate clamped around its edge, Eng Trans 43(4) 627-635 (1995), 9A508
Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, Mech Solids 30(5) 146-156 (1995), 10A537
Plastic deformation of a rigid floating plate: An analytical study, Appl Math Model 20(5) 352-359 (May 1996), 10A538
Dynamics of a state variable frictional law in FE analysis, Finite Elements Anal Des 22(1) 25-40 (May 1996), 11A29
Transient response of an impulsively-loaded plastic string on a plastic foundation, Quart Appl Math 54(2) 327-343 (Jun 1996), 11A449

254F. Material characterization

TWI biaxial test program: 1984-1994, Int J Pressure Vessels Piping 64(3) 177-190 (1995), 1T500
Micromechanical modeling of the transformation induced plasticity (TRIP) phonomenon in steels, Int J Eng Sci 33(13) 1921-1934 (Oct 1995), 2A396
Tensile flow and instability in galvanized, rolled steel sheet, J Strain Anal Eng Des 30(4) 305-315 (Oct 1995), 3A612
Effect of grain size, strain and temperature on the monotonic stress-strain behavior of polycrystalline aluminum and Al alloys, Fatigue Fracture Eng Mat Struct 18(11) 1343-1354 (Nov 1995), 5A440
Flow instability in the torsional straining of commercially pure titanium, J Eng Mat Tech 117(3) 255-259 (Jul 1995), 5A441
Modeling austenite flow curves in low alloy and microalloyed steels, Acta Mat 44(1) 155-163 (Jan 1996), 5A442
Materials division diamond jubilee special issue, J Eng Mat Tech 117(4) 352-493 (Oct 1995), 5A631
Indentation stress-strain curves for "quasi-ductile" ceramics, Acta Mat 44(2) 519-527 (Feb 1996), 6A399
Geometry and continuum thermodynamics of movement of structural defects, Mech Mat 22(1) 23-41 (Jan 1996), 7A3
Mathematical description of the tensile stress-strain curves of polycrystalline face centered cubic metals, Int J Plasticity 12(1) 35-43 (1996), 8A425
Transformation-induced plasticity (TRIP), Appl Mech Rev 49(6) 317-364 (Jun 1996), 8A426
Comparative study of tensile flow parameters in forged and rolled 9Cr-1Mo steel, Int J Pressure Vessels Piping 67(2) 155-160 (Jul 1996), 9A509
Inverse solution procedure for material parameters identification in large plastic deformations, Commun Numer Methods Eng 12(3) 161-173 (Mar 1996), 9A510
Natural surface layer of metals, Acta Phys Polonica A 89(3) 377-381 (Mar 1996), 9A985
Failure prediction for cross-rolled beryllium sheet material, J Eng Mat Tech 118(2) 207-212 (Apr 1996), 10A539
State variable constitutive model for superplastic Ti-6Al-4V based on grain size, J Eng Mat Tech 118(2) 162-168 (Apr 1996), 10A540
Mechanisms-based constitutive equations for the superplastic behavior of a titanium alloy, J Strain Anal Eng Des 31(3) 187-196 (May 1996), 11A450
Method to determine the plane-strain yield locus for ductile crystals, J Appl Mech 63(2) 327-330 (Jun 1996), 12A514
Nonlinear elastoplastic analysis of spatial structures under dynamic loading using kinematic hardening models, Eng Struct 18(8) 568-576 (Aug 1996), 12A523

254G. Work hardening

Formation of shear bands in plane sheet, Int J Plasticity 11(5) 605-622 (1995), 1A501
Improved Gurson-type model for hardenable ductile metals, Eur J Mech A 14(4) 499-527 (1995), 1A502
Well-posedness of the initial value problem for elastic-plastic oscillators with isotropic work-hardening, Quart Appl Math 53(3) 551-558 (Sep 1995), 1A503
Plastic constitutive model for anisotropic hardening metals, Eur J Mech A 14(5) 679-696 (1995), 3A461
Effects of hypoelastic model and plastic hardening on numerical simulation: Shear deformation of 2D plane block, JSME Int J Ser A 38(4) 531-540 (Oct 1995), 3A463
Analytical and FE predictions of residual stresses in cold worked fastener holes, J Strain Anal Eng Des 30(4) 291-304 (Oct 1995), 3A465
Constitutive modeling of TRIP steel and its application to the improvement of mechanical properties, Int J Mech Sci 37(12) 1295-1305 (Dec 1995), 3A466
Single crystal hardening: Mechanisms and description, Acta Mech Sinica 11(2) 162-168 (1995), 3A467
Hardening laws, surface roughness, and biaxial tensile limit strains of sheet aluminum alloys, Int J Mech Sci 38(2) 219-232 (Feb 1996), 4A460
Tresca's yield condition and the linear hardening rotating solid disk of variable thickness, Z Angew Math Mech 75(10) 805-807 (1995), 4T461
Computational plasticity: The variational basis and numerical analysis, Comput Mech Adv 2(4) 283-400 (Sep 1995), 4A471
Plasticity including the Bauschinger effect, studied by a neural network approach, Acta Mech 113(1-4) 63-75 (1995), 5A434
New data on torsion-tension of the D16T alloy, Mech Solids 30(2) 162-167 (1995), 5A443
Hardening plasticity approximated via anisotropic elasticity: The Fokker-Planck equation in a neural network environment, Z Angew Math Mech 75(12) 889-900 (1995), 6A400
Cross effect in aluminium tubes subjected to torsion and tension, JSME Int J Ser A 39(1) 124-128 (Jan 1996), 7A525
Multisurface and integral description of anisotropic hardening evolution of metals, Eur J Mech A 15(1) 1-28 (1996), 8A427
Performance of kinematic hardening rules in predicting a class of biaxial ratcheting histories, Int J Plasticity 12(1) 117-145 (1996), 8A428
Anisotropic plasticity with anisotropic hardening and rate dependence, J Eng Mech 122(4) 316-324 (Apr 1996), 10A541

Evolution of kinematic and isotropic hardening in the case of complex uniaxial loading, J Theor Appl Mech 34(2) 371-389 (1996), 10A542
Finite-element work-hardening plasticity model of the uniaxial compression and subsequent failure of porous cylinders including effects of void nucleation and growth - Part II: Localization and fracture criteria, J Eng Mat Tech 118(2) 169-178 (Apr 1996), 10A543
Shakedown of a cracked body consisting of kinematic hardening material, Eng Fracture Mech 54(1) 107-112 (May 1996), 10A786
Application of a kinematic hardening model for assessing ratchetting in pressurized pipes, Nucl Eng Des 162(1) 67-73 (Mar 1996), 11A451
Evolution equations for distortional plastic hardening, Int J Plasticity 12(2) 191-213 (1996), 11A452
General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, J Appl Mech 63(2) 376-382 (Jun 1996), 12A515
Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), J Soc Mat Sci Japan 45(5) 552-558 (May 1996), 12A519
Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), J Soc Mat Sci Japan 45(5) 544-551 (May 1996), 12A776

254H. Cyclic and variable loading

Note on the inertia and strain-rate effects in the Tarn and Calladine model, Int J Impact Eng 16(4) 637-649 (Aug 1995), 1A214
Replica model scaling for high strain-rate events, Int J Impact Eng 16(4) 571-583 (Aug 1995), 1A215
18G2A steel (construction steel) cyclic behavior in the case of complex uniaxial loading, Eng Trans 43(1-2) 327-355 (1995), 1A504
Dynamic deformation of rigid-plastic beams for general impulsive loading: A phenomenological model, Int J Impact Eng 16(4) 535-562 (Aug 1995), 1A505
Inertia-sensitive impact energy-absorbing structures - Part I: Effects of inertia and elasticity, Int J Impact Eng 16(4) 651-672 (Aug 1995), 1A506
Inertia-sensitive impact energy-absorbing structures - Part II: Effect of strain rate, Int J Impact Eng 16(4) 673-689 (Aug 1995), 1A507
Rigid-pastic analysis of underwater blast loaded stiffened plates, Int J Mech Sci 37(8) 843-859 (Aug 1995), 1A508
Dynamic constitutive equations and behavior of brass at high strain rates, Proc Inst Mech Eng C 209(C4) 287-293 (1995), 2A397
Objective function construction for the multi-criteria problems of cyclic bending, Int J Mech Sci 37(9) 1011-1020 (Sep 1995), 2A398
Cyclic stress-strain behavior of alloy AA6060 - Part I: Uniaxial experiments and modeling, Int J Plasticity 11(6) 725-739 (1995), 3A468
Cyclic stress-strain behavior of alloy AA6060 T4 - Part II: Biaxial experiments and modeling, Int J Plasticity 11(6) 741-762 (1995), 3A469
Shakedown of a CT specimen with St52 steel: Experimental analytical and numerical investigations, J Strain Anal Eng Des 30(4) 283-289 (Oct 1995), 3A470
Time-dependent response of IM7/5260 composites subjected to cyclic thermomechanical loading, Composites Sci Tech 55(1) 49-56 (1995), 3A471
Internal stresses in planar random fiber aluminum composites - I: Tensile tests and cyclic Bauschinger experiments at room temperature and 77 K, Acta Metall Mat 43(12) 4337-4348 (Dec 1995), 4A500
Internal stresses in planar random fiber aluminum composites - II: Mean stress hardening and relaxation, Acta Metall Mat 43(12) 4349-4356 (Dec 1995), 4A501
Nonlinear viscoelastic-viscoplastic behavior of IM7/5260 composites subjected to cyclic loading, J Composite Mat 29(15) 2025-2046 (1995), 4A520
Fatigue and ratcheting interactions, Int J Fatigue 17(7) 507-511 (Oct 1995), 4A676
Impact fracture of polyethylene: A nonlinear-elastic thermal decohesion model, Eng Fracture Mech 52(6) 999-1014 (Dec 1995), 4A706
Compressive stress-strain relations and shock Hugoniot curves of flexible foams, J Eng Mat Tech 117(3) 278-284 (Jul 1995), 5A444
Deformation and tearing of thin square plates subjected to impulsive loads: An experimental study, Int J Impact Eng 18(1) 99-116 (Jan 1996), 5A445
Fractographic aspects of blunting at high loading rate, Eng Fracture Mech 53(1) 37-47 (Jan 1996), 5A661
Influence of web reinforcement on the cyclic response of structural walls, ACI Struct J 92(6) 745-756 (Dec 1995), 5T709
Multisurface and integral description of anisotropic hardening evolution of metals, Eur J Mech A 15(1) 1-28 (1996), 8A427
Effect of velocity on flow localization in tension, Acta Mat 44(3) 1021-1033 (Mar 1996), 8A429
Preisach model for the cyclic bending of elastoplastic beams, Eur J Mech A 15(1) 155-172 (1996), 8A430
Quantitative description of temperature- and strain rate-dependence of yield strength of structural steels, Eng Fracture Mech 53(4) 633-643 (Mar 1996), 8A431
Response and cyclic strain accumulation of pressurized piping elbows under dynamic in-plane bending, J Strain Anal Eng Des 31(2) 135-151 (Mar 1996), 8A432
Response and cyclic strain accumulation of pressurized piping elbows under dynamic out-of-plane bending, J Strain Anal Eng Des 31(2) 153-166 (Mar 1996), 8A433
Observations of tension-compression asymmetry in the cyclic deformation of aluminum alloy 7075, Fatigue Fracture Eng Mat Struct 19(1) 85-97 (1996), 8A566
Damage estimate for plating of ships and platforms under repeated impacts, Marine Struct 9(7) 697-720 (Aug 1996), 9A280
Oblique impact modeling of fuzes, Int J Impact Eng 18(4) 435-457 (Jun 1996), 9A283
Cyclic loading of a notched element with a technological surface layer, Eng Trans 43(4) 553-569 (1995), 9A511
Efficient method for elastic-plastic analysis of destructive structures, Comput Struct 59(5) 911-914 (Jun 1996), 9A512
Simplified analysis of cyclic elastoplastic creep responses in elevated temperature structures under cyclic loading, Int J Pressure Vessels Piping 67(2) 127-135 (Jul 1996), 9A513
Simplified analysis of effective strain range and accumulated strain in structures under cyclic mechanical loading, Int J Pressure Vessels Piping 67(2) 137-144 (Jul 1996), 9A514
Deformation and tearing of clamped work-hardening beams subjected to impulsive loading, Int J Impact Eng 18(4) 425-433 (Jun 1996), 9A570
Shear and bending deformation of rigid-plastic circular plates by central pressure pulse, Int J Impact Eng 18(4) 383-402 (Jun 1996), 9A581
Prediction of probability distribution of fatigue life of 15MnVN steel notched elements under variable-amplitude loading, Int J Fatigue 18(2) 81-86 (Feb 1996), 9A777
Low-velocity perforation of punch-impact-loaded metal plates, J Pressure Vessel Tech 118(2) 181-187 (May 1996), 10A277
Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part I: FE analysis, J Pressure Vessel Tech 118(2) 154-160 (May 1996), 10A544
Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part II: Comparison between FE analysis and theory, J Pressure Vessel Tech 118(2) 161-167 (May 1996), 10A545
Inertial effects in ductile failure of cylindrical tubes under internal pressure, Int J Impact Eng 18(5) 539-563 (Jul 1996), 10A546
Onset of ratcheting in pressurized piping elbows subjected to in-plane bending moments, Int J Pressure Vessels Piping 68(1) 73-79 (1996), 10A547
Viscoplastic deformation and fracture of structural members under cyclic bending, Mech Solids 30(6) 97-102 (1995), 10A548
Low cycle fatigue stress-strain relation model of cyclic hardening or cyclic softening materials, Eng Fracture Mech 54(1) 1-9 (May 1996), 10A732
Hardening interaction in cyclic creep of a type 316 stainless steel at 20°C and 500°C, Fatigue Fracture Eng Mat Struct 19(4) 515-521 (1996), 10A753
Dynamic shakedown of structures with variable appended masses and subjected to repeated excitations, Int J Plasticity 12(2) 215-228 (1996), 11A18
High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, Nucl Eng Des 162(1) 13-20 (Mar 1996), 11A441
Basic conditions for material and structural ratcheting, Nucl Eng Des 162(1) 55-65 (Mar 1996), 11A453
Behavior and modelization of a 17 -12 SPH stainless steel under cyclic, unidirectional and bidirectional anisothermal loadings, Nucl Eng Des 162(1) 21-45 (Mar 1996), 11A454
Clausius-Duhem inequality and the structure of rate-independent plasticity, Int J Plasticity 12(2) 229-238 (1996), 11A455
Plastic deformation and fatigue under multiaxial loading, Nucl Eng Des 162(1) 75-84 (Mar 1996), 11A456
Thermal ratcheting of a cylinder subjected to a moving temperature front: Effects of kinematic hardening rules on the analysis, Int J Plasticity 12(2) 255-271 (1996), 11A457
Nonlinear multi-domain stress analysis method for surface-mount solder joints, J Electron Packaging 118(2) 72-79 (Jun 1996), 12A480
Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part I: Behavior, Int J Plasticity 12(3) 295-309 (1996), 12A516
Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part II: Modeling, Int J Plasticity 12(3) 311-341 (1996), 12A517
Cyclic behavior of unidirectional and cross-ply titanium matrix composites, Int J Plasticity 12(3) 361-385 (1996), 12A518
Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), J Soc Mat Sci Japan 45(5) 552-558 (May 1996), 12A519
Deformation behavior and microstructure evolution of high-strength alloy steel at high rate of strain, J Mat Processing Tech 57(3-4) 233-240 (Feb 1996), 12A520
Dynamic Bauschinger effect, Acta Mat 44(7) 2797-2807 (Jul 1996), 12A521

254I. Visco- and elasto-plastic media

Flutter instability in elastoplastic constitutive models, Int J Solids Struct 32(21) 3167-3189 (Nov 1995), 1A6
Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, Comput Mech 16(5) 307-314 (Aug 1995), 1A160
Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws, Int J Solids Struct 32(21) 3145-3166 (Nov 1995), 1A509
Incremental elastic-viscoplastic theory indicating a reduced modulus for non-proportional buckling, Int J Solids Struct 32(20) 2967-2987 (Oct 1995), 1A510
Modeling the role of microstructure on the superplastic behavior of a titanium alloy, Arch Mech 47(2) 247-260 (1995), 1A511
Plane strain formulation of the elastic-plastic constitutive law for hardening von Mises materials, Int J Solids Struct 32(23) 3515-3531 (Dec 1995), 1A512
Response of an elastic, plastic turbular cantilever beam subjected to a force pulse at its tip: Small deflection analysis, Int J Solids Struct 32(23) 3407-3421 (Dec 1995), 1A513
Numerical results for a viscoplastic softening problem, Arch Mech 47(2) 391-403 (1995), 1A521
Appropriate corotational rate, exact formula for the plastic spin and constitutive model for finite elastoplasticity, Int J Solids Struct 32(24) 3643-3667 (Dec 1995), 2A1
Parallel elastoplastic models of inelastic material behavior, J Eng Mech 121(10) 1089-1097 (Oct 1995), 2A399
Well-posedness of the initial value problem in elasto-plastodynamics for a linear comparison solid, Acta Mech 111(3-4) 181-192 (1995), 2A400
Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix, J Mech Phys Solids 43(10) 1639-1671 (Oct 1995), 2A447
Construction of a characteristic matrix form of the dynamic equations for anisotropic elastic-visco-plastic media, Mech Solids 30(1) 85-89 (1995), 3A181
Stress analysis of an orthotropic work-hardening cylinder with body force, Mech Struct Machines 23(4) 521-548 (1995), 3A472
Strain localization in single crystals: Bifurcation analysis, effects of boundaries and interfaces, Eur J Mech A 14(5) 747-771 (1995), 3A475
Effect of prior quasi-static loading on the initiation and growth of dynamic adiabatic shear bands, Arch Mech 47(3) 485-498 (1995), 3A1176
Elastic-plastic water hammer analysis in piping systems, Wave Motion 22(3) 279-295 (Nov 1995), 4A272
Tresca's yield condition and the linear hardening rotating solid disk of variable thickness, Z Angew Math Mech 75(10) 805-807 (1995), 4T461
Continuum slip viscoplasticity with the Haasen constitutive model: Application to CdTe single crystal inelasticity, Int J Plasticity 11(7) 799-826 (1995), 4A462
Extremum theorems and a computational algorithm for an internal variable model of elastoplasticity, Eur J Mech A 14(6) 843-871 (1995), 4A463
Interface problems in elasto-viscoplasticity, Quart Appl Math 53(4) 633-655 (Dec 1995), 4A464
Inverse problem for an elastoplastic medium, SIAM J Appl Math 55(6) 1736-1752 (Dec 1995), 4A465
Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, Eur J Mech A 14(6) 1005-1016 (1995), 4A466
Visco-plastic relaxation: Convergence and localization, Eur J Mech A 14(6) 961-979 (1995), 4A467
Effect of volume fraction of reinforcement on the elastic-viscoplastic response of metal-matrix composites, Int J Mech Sci 38(1) 19-39 (Jan 1995), 4A479
Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, AIAA J 33(12) 2354-2358 (Dec 1995), 4A579
Dynamic damage and failure in visco-plastic materials, Eng Fracture Mech 52(6) 1065-1077 (Dec 1995), 4A750
Shakedown theorems extended to elastic non perfectly plastic bodies, Mech Res Commun 22(6) 571-576 (Dec 1995), 4T787
Design and analysis of fiber enhanced viscoelastic damping polymers, J Vib Acoust 117(4) 398-404 (Oct 1995), 5A163
Dynamic behavior of an initially stressed pipeline, Mech Solids 30(2) 140-146 (1995), 5A225
Inverse problems of nonelastic deformation, Mech Solids 30(2) 74-83 (1995), 5A429
Investigation of transient creep by means of endochronic viscoplasticity and experiment, J Eng Mat Tech 117(3) 260-268 (Jul 1995), 5A430
Remark on consequences of the work assumption of Naghdi and Trapp for elastic-plastic materials, Z Angew Math Phys 46(6) 982-988 (Nov 1995), 5A435
Measurement of cyclic biaxial elastoplastic stresses at notch roots, J Appl Mech 62(3) 646-653 (Sep 1995), 5A438
Effect of surface asperity on interfacial contact process controlled by power law creep: Numerical study of viscoplastic adhering process, J Eng Mat Tech 117(3) 330-335 (Jul 1995), 5A446
Elastic-plastic torsion of a Cosserat-type rod, Acta Mech 113(1-4) 53-62 (1995), 5A447
Experimental study of interfacial contacting process controlled by power law creep, J Eng Mat Tech 117(3) 336-340 (Jul 1995), 5A448
Finite elastoplastic constitutive formulation with new co-rotational stress-rate and strain-hardening rule, J Appl Mech 62(3) 733-739 (Sep 1995), 5A449
Inertial effects on void growth in porous viscoplastic materials, J Appl Mech 62(3) 633-639 (Sep 1995), 5A450
Observations on yield surfaces for 304 stainless steel at large prestrain, J Appl Mech 62(3) 626-632 (Sep 1995), 5A451
Role of temperature in the entanglement kinetics of a polymer melt, J Appl Mech 62(3) 794-801 (Sep 1995), 5A452
Study of plastic-viscoplastic models with various inelastic mechanisms, Int J Plasticity 11(8) 991-1005 (1995), 5A453
Time domain modeling of linear viscoelasticity using anelastic displacement fields, J Vib Acoust 117(4) 424-430 (Oct 1995), 5A454
Verification of the transferability of micromechanical parameters by cell model calculations with viscoplastic materials, Int J Plasticity 11(8) 971-989 (1995), 5A455
Analytical expressions for the relaxation moduli of linear viscoelastic composites with periodic microstructure, J Appl Mech 62(3) 786-793 (Sep 1995), 5A476
Cyclic elasto-plastic finite displacement analysis of plates with modified two-surface model (Japanese), Proc JSCE 525(I-33) 1-15 (Oct 1995), 5A500
Influence of large deflections on the dynamic stability of nonlinear viscoelastic plates, Acta Mech 113(1-4) 215-231 (1995), 5A537
Calculation hyperelastic response of finitely deformed elastic-viscoplastic materials, Int J Numer Methods Eng 39(2) 309-320 (Jan 1996), 6A401
Constitutive parameter sensitivity in elasto-plasticity, Comput Mech 17(1-2) 36-48 (Dec 1995), 6A402
Nonlinear analysis of semirigid frames: A parametric complementarity approach, Eng Struct 18(2) 115-124 (Feb 1996), 6A772
Dynamic shakedown of structures under repeated seismic loads, J Eng Mech 121(12) 1306-1314 (Dec 1995), 6A1274
Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, JSME Int J Ser A 39(1) 99-107 (Jan 1996), 7A25
Cavity during superplastic deformation and its influence on mechanical properties of superplastically deformed materials at RT, Chinese J Aeronaut 8(4) 271-276 (Nov 1995), 7T529
Elastic-plastic-damage constitutive models with coupling internal variables, Mech Res Commun 23(1) 19-28 (Feb 1996), 7T530
Elastoplastic analysis with limited plastic deformations and displacements, Mech Struct Machines 24(1) 39-50 (1996), 7A531
Inelastic analysis of sections subjected to axial force and bending moment, Comput Struct 59(1) 13-19 (Apr 1996), 7A532
Life study of nickel-based single crystal turbine blades: Viscoplastic crystallographic constitutive behavior, Theor Appl Fracture Mech 24(2) 139-145 (Jan 1996), 7A533
Single crystal and polycrystal elastoviscoplasticity: Application to earing in cup drawing of FCC materials, Comput Mech 17(4) 209-225 (Jan 1996), 7A534
Superplastically free bulging of duralumin LY12CZ under an external strong electric field, Chinese J Aeronaut 8(4) 277-281 (Nov 1995), 7T535
Two-dimensional structure of dynamic boundary layers and shear bands in thermoviscoplastic solids, J Mech Phys Solids 44(2) 251-292 (Feb 1996), 7A536
Two-dimensional elasto-plastic problems of the theory of flexible shells with curvilinear holes

(Russian), Prikl Mekh (Appl Mech) 31(5) 30-35 (1995), 7A624
Simplified geometrically nonlinear elastoplastic analysis of semirigid frames, Mech Struct Machines 24(1) 1-20 (1996), 7A970
Preisach model for the cyclic bending of elastoplastic beams, Eur J Mech A 15(1) 155-172 (1996), 8A430
Effect of pore fluid compressibility on localization in elastic-plastic porous solids under undrained conditions, Int J Solids Struct 33(10) 1501-1518 (Apr 1996), 8A434
Hybrid method of 3D elastoplastic analysis of structure based on elastic solution (Chinese), J Dalian Univ Tech 35(3) 296-302 (Jun 1995), 8A435
Interior energy focusing within an elasto-plastic material, Int J Solids Struct 33(13) 1891-1901 (May 1996), 8A436
Comparison of 1D and 3D simulations of the twisting of a thermoviscoplastic tube, Int J Plasticity 12(1) 29-33 (1996), 8A1230
Finite element analysis for coupled creep elastoplastic damage response (Chinese), J Comput Struct Mech Appl 12(1) 26-38 (Feb 1995), 9A28
Elasto-plastic analysis of steel structures under cyclic loading using minimum residual displacement method (Japanese), Proc JSCE 531(I-34) 77-86 (Jan 1996), 9A214
Mathematical analysis of the elasto-plastic anti-plane shear problem of a power-law material and one class of closed-form solutions, Int J Solids Struct 33(15) 2213-2223 (Jun 1996), 9A515
Applicability of the ratios of the theories of elasto-plastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, Prikl Mekh (Appl Mech) 31(8) 3-10 (1995), 9T522
Time-dependent response of IM7-5260 composites subjected to cyclic thermo-mechanical loading, Composites Sci Tech 56(1) 55-62 (1996), 9A551
Viscoplastic analysis of adhesive joints, J Appl Mech 63(1) 21-26 (Mar 1996), 9A1034
Interface model to describe viscoplastic behavior, Int J Numer Anal Methods Geomech 20(4) 231-252 (Apr 1996), 10A549
Material instabilities in rate-dependent solids, Eur J Mech A 15(2) 267-294 (1996), 10A550
Steady viscoelastic flow past a sphere using spectral elements, Int J Numer Methods Eng 39(9) 1517-1534 (31y 1996), 10A551
Stress rate integral equations of elastoplasticity, Acta Mech Sinica 12(1) 55-64 (1996), 10A552
Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, JSME Int J Ser A 39(2) 216-222 (Apr 1996), 10A1331
Overall properties of elastic-viscoplastic periodic composites, Int J Plasticity 12(2) 163-190 (1996), 11A458
Elastic-plastic effects during cyclic loading as predicted by the Taylor-Lin model of polycrystal elasto-viscoplasticity, Int J Plasticity 12(3) 343-360 (1996), 12A522
Nonlinear elastoplastic analysis of spatial structures under dynamic loading using kinematic hardening models, Eng Struct 18(8) 568-576 (Aug 1996), 12A523
Three-dimensional FE analysis of surface deformation and stresses in an elastic-plastic layered medium subjected to indentation and sliding contact loading, J Appl Mech 63(2) 365-375 (Jun 1996), 12A524
Forming limit predictions with the perturbation method using stress potential functions of polycrystal viscoplasticity, Int J Mech Sci 38(8-9) 805-824 (Sep 1996), 12A670

254K. Anisotropic and nonhomogeneous media

Analysis of shear localization in porous materials based on a lower bound approach, Int J Fracture 71(1) 71-83 (1995), 1A514
Analysis of the effects of symmetrical tilt grain boundaries on the plastic deformation, Acta Mech Solida Sinica 8(2) 95-109 (1995), 1A515
Transverse yielding and matrix flow past the fibers in metal matrix composites, Mech Mat 21(2) 159-167 (Aug 1995), 1A549
Alternative version of constructing limit surfaces for anisotropic solids, Mech of Composite Mat T31(4) 488-493 (Aug 1995), 2A401
Yield loci of anisotropic aluminium sheets, Int J Mech Sci 37(9) 995-1010 (Sep 1995), 2A402
Construction of a characteristic matrix form of the dynamic equations for anisotropic elastic-visco-plastic media, Mech Solids 30(1) 85-89 (1995), 3A181
Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, JSME Int J Ser A 38(4) 547-553 (Oct 1995), 3A460
Inelastic strain concentration in directionally solidified materials, Trans Can Soc Mech Eng 19(3) 331-346 (1995), 3A473
Introduction of anisotropy in viscoplastic 2D and 3D FE simulations of hot forging, J Mat Processing Tech 53(3-4) 662-683 (Sep 1995), 3A599
Anisotropic yield surface model for directionally reinforced metal-matrix composites, Int J Plasticity 11(8) 867-894 (1995), 5A456
Tensorial constitutive equations for describing the anisotropic creep behavior of isotropic material after plastic prestrain (German), Z Angew Math Mech 75(11) 831-845 (1995), 5A457
Composite plasticity model for concrete, Int J Solids Struct 33(5) 707-730 (Feb 1996), 5A464
Elastoplastic properties of polycrystals, Mech Solids 30(3) 99-104 (1995), 6T394
Hardening plasticity approximated via anisotropic elasticity: The Fokker-Planck equation in a neural network environment, Z Angew Math Mech 75(12) 889-900 (1995), 6A400
Hybrid effect and matrix yielding at fiber breaks in hybrid composite sheets, Mech Composite Mat Struct 2(4) 275-280 (Dec 1995), 6A403
Stress exponents of asymptotic solutions at the notch tip in anisotropic power law material under anti-plane shear, Eng Fracture Mech 53(2) 153-167 (Jan 1996), 6A674
Supplementary study of anisotropic plastic fields at a rapidly propagating plane-stress crack-tip - I, Appl Math Mech 16(11) 1105-1115 (Nov 1995), 7A825
Finite element analysis of viscoplastic composites materials and structures, Mech Composite Mat Struct 3(1) 1-28 (Mar 1996), 8A15
Multisurface and integral description of anisotropic hardening evolution of metals, Eur J Mech A 15(1) 1-28 (1996), 8A427
Cyclic anisotropic-plasticity model for metal matrix composites, Int J Plasticity 12(1) 69-91 (1996), 8A437
Micro-stress distribution within polycrystalline aggregate, Acta Mech 114(1-4) 203-216 (1996), 8A463
Blank development and the prediction of earing in cup drawing, Int J Mech Sci 38(5) 509-516 (May 1996), 8A544
Meso-elastoplastic constitutive equation with application to deformation-induced anisotropy of a polycrystalline aggregate, Arch Mech 48(1) 53-65 (1996), 9A504
Three dimensional anisotropic constitutive model for ductile behavior of columnar grained sea ice, Acta Mat 44(5) 1839-1847 (May 1996), 9A516
Effect of temperature on rheological property of fresh cement paste in high flowing concrete (Japanese), J Soc Mat Sci Japan 45(2) 230-234 (Feb 1996), 9A1038
ASME 1995 Nadai lecture: Plasticity of porous and particulate materials, J Eng Mat Tech 118(2) 145-156 (Apr 1996), 10A553
Equations of plane deformation for a plastic transversally-isotropic medium, Mech Solids 30(5) 96-102 (1995), 10T554
Computational aspects of a softening plasticity model for plain concrete, Mech Cohesive-Frictional Mat 1(1) 75-94 (Jan 1996), 10A561
Gradient plasticity in numerical simulation of concrete cracking, Eur J Mech A 15(2) 295-320 (1996), 10A828
Anisotropic elastic-plastic constitutive model for single and polycrystalline metals - I: Theoretical developments, Int J Plasticity 12(2) 147-162 (1996), 11A459
Elastic-plastic constitutive models based on the multiplication processes of deformed grains, Appl Math Mech 17(3) 257-268 (Mar 1996), 11A460
Homogenization for granular materials: Non reversible behavior, Mech Cohesive-Frictional Mat 1(2) 199-218 (Apr 1996), 11A1314
Mechanics of Porous Media (Balkema, Rotterdam, Netherlands, 1995) 12N26
Anisotropic yield functions with plastic-strain-induced anisotropy, Int J Plasticity 12(3) 417-438 (1996), 12A525

254L. Residual stress

Hysteretic models of plasticity, Stability Appl Anal Continuous Media 3(2) 99-109 (Jun 1993), 2T393
Residual stresses around Vickers indents, Acta Metall Mat 43(10) 3649-3659 (Oct 1995), 2A403
Method for residual stress measurement in welded seams, J Mat Processing Tech 52(2-4) 503-514 (Jul 1995), 3A474
Assessment of residual-stress measurements around cold-worked holes, Exp Mech 35(4) 361-366 (Dec 1995), 5A458
New method for estimating residual stresses in pipe made by surfacing weld, J Eng Indust 117(3) 365-371 (Aug 1995), 5A459
Analytical and experimental evaluation of cold-working process for strain hardening materials, Eng Fracture Mech 53(3) 371-385 (Feb 1996), 7A537
Effect of post-weld heat-treatment on mechanical-properties and residual-stresses mapping in welded structural steel, J Mat Processing Tech 55(2) 117-122 (Nov 1995), 7A1028
Elliptical subsurface cracks under a normal stress and a residual stress field, Fatigue Fracture Eng Mat Struct 19(1) 129-139 (1996), 8A622
One-dimensional model for the prediction of residual stress and its relief in welded plates, Int J Mech Sci 38(7) 735-751 (Jul 1996), 9A517
Effect of prior cold work on the room-temperature low-cycle fatigue behavior of AISI 304LN stainless steel, Int J Fatigue 18(2) 71-79 (Feb 1996), 9A753
New approach to the prediction of fatigue notch reduction factor K_f, Int J Fatigue 18(2) 105-109 (Feb 1996), 9A763
Determination of nonuniform residual stresses using the ring-core method, J Eng Mat Tech 118(2) 224-228 (Apr 1996), 10A555
Measurement of residual stresses in a circular ring using the successive cracking method, J Eng Mat Tech 118(2) 217-223 (Apr 1996), 10A556
Model of residual stress in the fabrication of thin glass films, J Eng Mat Tech 118(2) 213-216 (Apr 1996), 10A557
Prediction of residual stresses in welded T- and I-joints using inherent strains, J Eng Mat Tech 118(2) 229-234 (Apr 1996), 10A558
Prediction of notch fatigue limits in a compressive residual stress field, Eng Fracture Mech 54(2) 171-176 (May 1996), 10A739
Investigation of the role of residual stresses in the warm prestress effect - Part I: Experimental, Fatigue Fracture Eng Mat Struct 19(4) 485-500 (1996), 10A783
Investigation of the role of residual stresses in the warm prestress effect - Part II: Analysis, Fatigue Fracture Eng Mat Struct 19(4) 501-513 (1996), 10A784
Polychromatic x-ray method for residual-stress measurements in a subsurface layer, Exp Mech 36(1) 24-32 (Mar 1996), 10A857

254M. Physical theory (dislocations, etc)

Modeling the role of microstructure on the superplastic behavior of a titanium alloy, Arch Mech 47(2) 247-260 (1995), 1A511
Dislocation density approximation for the flow stress-grain size relation of polycrystals, Acta Metall Mat 43(9) 3349-3360 (Sep 1995), 1A516
Propagation of an effective shear stress as solitary wave and possibility of non-crystallographic slip in polycrystals, Arch Mech 47(1) 101-116 (1995), 1A517
Edge dislocation of constant velocity near a static internal crack, Int J Fracture 71(1) 15-35 (1995), 1A792
Discrete dislocation plasticity: A simple planar model, Model Simulation Mat Sci Eng 3(5) 689-735 (Sep 1995), 2A404
Numerical 3D simulations of the stress fields of dislocations in face-centered cubic crystals, Model Simulation Mat Sci Eng 3(5) 655-664 (Sep 1995), 2A405
Single crystal hardening: Mechanisms and description, Acta Mech Sinica 11(2) 162-168 (1995), 3A467
Strain localization in single crystals: Bifurcation analysis, effects of boundaries and interfaces, Eur J Mech A 14(5) 747-771 (1995), 3A475
Molecular dynamics simulation of crack-tip processes in copper, Acta Mech Sinica 11(1) 76-82 (1995), 3A714
Dislocation dynamics by means of Lagrange formalism of irreversible processes: Complex fields and deformation processes, Int J Eng Sci 33(15) 2137-2148 (Dec 1995), 4A468
Dislocations in crystals and in continua: A confrontation, Int J Eng Sci 33(15) 2127-2135 (Dec 1995), 4A469
Inelastic Deformation of Metals: Models, Mechanical Properties, and Metallurgy (Wiley, New York, 1996) 5R16
Aggregate size effect on the predicted plastic response of hexagonal close-packed polycrystals, Model Simulation Mat Sci Eng 3(6) 845-864 (Nov 1995), 6A404
Exponential ductile continuum damage model for metals, Int J Fracture 72(4) 293-310 (1995), 6A626
Geometry and continuum thermodynamics of movement of structural defects, Mech Mat 22(1) 23-41 (Jan 1996), 7A3
Cross effect in aluminium tubes subjected to torsion and tension, JSME Int J Ser A 39(1) 124-128 (Jan 1996), 7A525
Squeeze flow of a power-law viscoplastic solid, J Non-Newtonian Fluid Mech 62(1) 35-54 (Jan 1996), 8A424
Dislocation mechanics-based crystallographic model of a B2-type intermetallic alloy, Int J Plasticity 12(1) 1-28 (1996), 8A438
Micro-stress distribution within polycrystalline aggregate, Acta Mech 114(1-4) 203-216 (1996), 8A463
Distinguishing features of phase transformation in the surface layer of hardened steel with ($\alpha + \gamma$)-two-phase structure during plastoelastic loading at different rates, Acta Phys Polonica A 89(3) 353-356 (Mar 1996), 9A983
Molecular dynamics studies on the dislocation gliding near a tilt boundary, Acta Mech Sinica 12(1) 73-84 (1996), 10A559
Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, JSME Int J Ser A 39(2) 237-245 (Apr 1996), 10A560
Molecular dynamics simulation of interaction of a dislocation array from a crack tip with grain boundaries, Model Simulation Mat Sci Eng 4(2) 231-244 (Mar 1996), 11A461

254Y. Computational techniques

Nonlinear analysis and elastic-plastic behavior of anisotropic structures, Finite Elements Anal Des 20(3) 155-177 (Jul 1995), 1A21
Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, Comput Methods Appl Mech Eng 125(1-4) 17-40 (Sep 1995), 1A518
Generalized hardening plasticity approximated via anisotropic elasticity: A neural network approach, Comput Methods Appl Mech Eng 125(1-4) 123-139 (Sep 1995), 1A519
Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, Int J Plasticity 11(5) 501-521 (1995), 1A520
Numerical results for a viscoplastic softening problem, Arch Mech 47(2) 391-403 (1995), 1A521
Numerical simulation of localization phenomenon using gradient plasticity and FEs, Heron 40(1) 71-92 (1995), 1A522
Observations on element performance in isochoric and dilatant plastic flow, Int J Numer Methods Eng 38(17) 2887-2906 (Sep 1995), 1A523
Stability and error analysis for time integrators applied to strain-softening materials, Comput Methods Appl Mech Eng 124(4) 335-363 (Aug 1995), 1A524
Numerical analysis of the elastic-plastic behavior of pressure vessels with ellipsoidal and torispherical heads, Int J Pressure Vessels Piping 65(2) 147-156 (1996), 1A926
Penetration into ductile metal targets with ridid spherical-nose rods, Int J Impact Eng 16(5-6) 699-710 (Dec 1995), 2A167
Refined version of the finite differences method in the theory of elasticity, Comput Struct 57(6) 1079-1105 (Dec 1995), 2A406
Simple method for first dynamic mode of plastic deformation for suddenly loaded beams, Int J Impact Eng 16(5-6) 833-840 (Dec 1995), 2A407
Rigid FE and its applications in engineering, Acta Mech Sinica 11(1) 44-50 (1995), 3A19
Avoiding of spurious mesh sensitivity in numerical analysis of plastic strain localization, Comp Assisted Mech Eng Sci 2(3) 231-248 (1995), 3A476
Computer simulation on deformation of engineering materials at high temperatures - III: Application to structural analysis (Japanese), J Soc Mat Sci Japan 44(504) 1201-1206 (Sep 1995), 3T477
Dual FE approach for stresses of elasto-perfectly plastic bodies, Math Comput 64(212) 1455-1462 (Oct 1995), 3A478
Numerical implementation and analysis of a class of metal plasticity models coupled with ductile damage, Int J Numer Methods Eng 38(20) 3403-3431 (Oct 1995), 3A479
Robust limit loads of symmetric and non-symmetric plate structures, Trans Can Soc Mech Eng 19(3) 227-246 (1995), 3A534
Near net shape spline forging: An experimental investigation and a simple upper bound analysis, Int J Mech Sci 37(12) 1247-1268 (Dec 1995), 3A602
Asymptotic analysis of growing crack stress-deformation fields in porous ductile metals and implications for stable crack growth, Int J Fracture 72(1) 69-96 (1995), 3A686
Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, Mech Mat 21(4) 265-279 (Nov 1995), 4A16
Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, Commun Numer Methods Eng 11(11) 951-961 (Nov 1995), 4A45
Automatic mesh generation for computing symmetric local stresses by 2D-viscoplastic BEM with modified transfinite method, Eng Fracture Mech 52(6) 1139-1150 (Dec 1995), 4A69
Large-scale crystal plasticity computations of microstructural failure modes, Comput Syst Eng 6(3) 225-240 (Jun 1995), 4A456
Extremum theorems and a computational algorithm for an internal variable model of elastoplasticity, Eur J Mech A 14(6) 843-871 (1995), 4A463
Algorithm for plastic limit analysis, Comput Methods Appl Mech Eng 126(3-4) 333-341 (Oct 1995), 4A470
Computational plasticity: The variational basis and numerical analysis, Comput Mech Adv 2(4) 283-400 (Sep 1995), 4A471
Evaluation of a large time increment method, Comput Struct 58(3) 633-637 (Feb 1996), 4A472

Finite element method for mixed variational inequalities arising in elastoplasticity, SIAM J Numer Anal 32(6) 1778-1807 (Dec 1995), 4A473
Iteration algorithm for kinematic shakedown analysis, Comput Methods Appl Mech Eng 127(1-4) 217-226 (Nov 1995), 4A474
Theoretical aspects in computational elasto-plasticity and their application, Comput Methods Appl Mech Eng 126(1-2) 179-196 (Sep 1995), 4A475
Viscohyperelcastic FE model for rubber, Comput Methods Appl Mech Eng 127(1-4) 163-180 (Nov 1995), 4A476
Approximate elastic-plastic analysis of the static and impact beaviour of polymer composite sandwich beams, Composites 26(12) 803-814 (Dec 1995), 4A522
Plastic post-buckling of a simply supported column with a solid rectangular cross-section, Appl Math Mech 16(8) 712-722 (Aug 1995), 4A565
Endochronic analysis for compressive buckling of thin-walled cylinders in yield region, Appl Math Mech 16(8) 801-812 (Aug 1995), 4T578
Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, Mech Mat 21(4) 281-301 (Nov 1995), 4A705
Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, Appl Math Mech 16(8) 791-799 (Aug 1995), 4A786
Deformation analysis of simple-shear sheet specimens, J Eng Mat Tech 117(3) 269-277 (Jul 1995), 5A18
Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, Finite Elements Anal Des 21(1-2) 75-110 (Oct 1995), 5A34
Consistent tangent operator for plasticity models based on the plastic strain rate potential, Comput Methods Appl Mech Eng 128(3-4) 315-323 (Dec 1995), 5A460
Performance of the QMITC element in 2D elastoplastic analyses, Comput Struct 58(6) 1099-1129 (Mar 1996), 5A461
Large deformation elastic-plastic analysis of space frames, J Construct Steel Res 35(3) 275-290 (1995), 5A490
Constraint in the failure assessment diagram approach for fracture assessment, J Pressure Vessel Tech 117(3) 260-267 (Aug 1995), 5A667
Finite element evaluation of elasto-plastic accommodation energies during solid state transformations: Coherent, spherical precipitate in finite matrix, Acta Mat 44(2) 437-444 (Feb 1996), 6A15
Hardening plasticity approximated via anisotropic elasticity: The Fokk or-Planck equation in a neural network environment, Z Angew Math Mech 75(12) 889-900 (1995), 6A400
Determination of load distribution in a threaded connector with yielding threads, Mech Machine Theory 31(2) 229-244 (Feb 1996), 6A405
Efficient and accurate explicit integration algorithms with application to viscoplastic models, Int J Numer Methods Eng 39(2) 261-279 (Jan 1996), 6A406
Elastic-plastic FE analysis of short flat bars with projections - Part I: Shear loading, J Strain Anal Eng Des 31(1) 9-24 (Jan 1996), 6A407
Elastic-plastic FE analysis of short flat bars with projections - Part 12 Axial loading, J Strain Anal Eng Des 31(1) 25-33 (Jan 1996), 6A408
Error estimation and adaptivity in elastoplasticity, Int J Numer Methods Eng 39(2) 189-217 (Jan 1996), 6A409
Instability phenomena in plasticity: Modeling and computation, Comput Mech 17(1-2) 74-87 (Dec 1995), 6A410
Observations on stress component and stress resultant limit analysis, Int J Mech Sci 38(3) 349-350 (Mar 1996), 6T411
Softening, localization and adaptive remeshing: Capture of discontinuous solutions, Comput Mech 17(1-2) 98-106 (Dec 1995), 6A412
Symmetric Galerkin BEM in plasticity and gradient plasticity, Comput Mech 17(1-2) 115-129 (Dec 1995), 6A413
Softening behavior of continuous thin-walled steel beams: Two numerical methods, J Construct Steel Res 36(1) 1-13 (1996), 6A467
FE-shape sensitivity of elastoplastic response, Struct Optim 10(3-4) 231-238 (Dec 1995), 6A716
Optimization of a frame structure subjected to a plastic deformation, Struct Optim 10(3-4) 197-208 (Dec 1995), 6A722
Numerical prediction of the hardened zone in laser treatment of carbon steel, Acta Mat 44(2) 445-450 (Feb 1996), 6A1170
Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, JSME Int J Ser A 39(1) 99-107 (Jan 1996), 7A25
Finite element method for gradient plasticity at large strains, Int J Numer Methods Eng 39(4) 619-633 (Feb 1996), 7A538
Dynamic pulse buckling of cylindrical shells subjected to external impulsive loading, J Pressure Vessel Tech 118(1) 33-37 (Feb 1996), 7A677
Analysis of asymmetrical clad sheet rolling by stream function method, Int J Mech Sci 38(4) 443-460 (Apr 1996), 7A725
3rd International Colloquium: Aging of materials and methods for assessing the lifetime extension of engineering plants, Int J Pressure Vessels Piping 66(1-3) 3-415 (1996), 7A789
Design of New Materials and Strengthening Technologies (Cambridge Int Sci, UK, 1995) 8N14
Elasto-plastic nonconforming solid element with variable nodes, Struct Eng and Mech 3(4) 325-340 (Jul 1995), 8A14
Inclusion of elastic deformation in rigid-plastic FE analysis, Int J Mech Sci 38(6) 621-631 (Jun 1996), 8A24
Return mapping algorithm for plane stress and degenerated shell plasticity, Struct Eng and Mech 3(2) 185-192 (Mar 1995), 8A37
Hybrid method of 3D elastoplastic analysis of structure based on elastic solution (Chinese), J Dalian Univ Tech 35(3) 296-302 (Jun 1995), 8A435
Computational procedure for rate-independent crystal plasticity, J Mech Phys Solids 44(4) 525-558 (Apr 1996), 8A439
Finite element analysis of laminated composites using an unmixing-mixing viscoplastic model, AIAA J 34(3) 634-637 (Mar 1996), 8T440
Simplified theories of flat rolling - I: The calculation of roll pressure, roll force, and roll torque, Int J Mech Sci 38(6) 633-648 (Jun 1996), 8A545
Simplified theories of flat rolling - II: Comparison of calculated and experimental results, Int J Mech Sci 38(6) 649-660 (Jun 1996), 8A546
Rigid-plastic implicit *integration* scheme for analysis of metal forming, Eur J Mech A 15(1) 51-66 (31 1996), 8A552
Consistent linearization for the exact stress update of Prandtl-Reuss non-hardening elastoplastic models, Int J Numer Methods Eng 39(7) 1219-1235 (Apr 1996), 9A518
Exact prescribed displacement field solutions in Mohr Coulomb elastoplasticity, Eng Comput 13(1) 4-14 (1996), 9A519
Numerical treatment and analysis of finite deformation ductile single crystal plasticity, Comput Methods Appl Mech Eng 129(3) 235-254 (Jan 1996), 9A520
Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, Int J Pressure Vessels Piping 67(2) 219-226 (Jul 1996), 9A521
Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, JSME Int J Ser A 39(2) 237-245 (Apr 1996), 10A560
Computational aspects of a softening plasticity model for plain concrete, Mech Cohesive-Frictional Mat 1(1) 75-94 (Jan 1996), 10A561
Convergence analysis of a p-version FEM for 1D elastoplasticity problem with constitutive laws based on the gauge function method, SIAM J Numer Anal 33(2) 809-842 (Apr 1996), 10A562
Universal integration algorithm for rate-dependent elastoplasticity, Comput Struct 59(6) 1173-1184 (Jun 1996), 10A563
Prediction of bending collapse behaviors of thin-walled open section beams, Thin-Walled Struct 25(3) 185-206 (1996), 10A626
Robust stress-classification of pressure components using the GLOSS and GLOSS r-node methods, J Pressure Vessel Tech 118(2) 208-215 (May 1996), 10A956
Shear capacity of plate girders with trapezoidally-corrugated webs, Thin-Walled Struct 26(1) 19-44 (1996), 11A15
Necessity of taking into account the variation in the Young modulus with plastic strain in elastic-plastic software, Nucl Eng Des 162(1) 107-116 (Mar 1996), 11A462
p-version of the FEM in incremental elasto-plastic analysis, Int J Numer Methods Eng 39(11) 1859-1878 (Jun 1996), 11A463
Three-dimensional FE analysis of surface deformation and stresses in an elastic-plastic layered medium subjected to indentation and sliding contact loading, J Appl Mech 63(2) 365-375 (Jun 1996), 12A524
Accurate body force integration in boundary methods applied to plane elasticity, Comput Struct 60(3) 411-414 (Aug 1996), 12A526
Incremental elastic-plastic FE solver in a workstation cluster environment - Part I: Formulations and parallel processing, Comput Methods Appl Mech Eng 130(3-4) 289-298 (Apr 1996), 12A527
Incremental elastic-plastic FE solver in a workstation cluster environment - Part II: Performance of a first implementation, Comput Methods Appl Mech Eng 130(3-4) 299-318 (Apr 1996), 12A528
Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell FE model, Comput Methods Appl Mech Eng 132(1-2) 63-116 (May 1996), 12A529
Analysis of superplastic blow-forming in a circular closed-die, J Mat Processing Tech 57(3-4) 360-372 (Feb 1996), 12A669
Computational anisotropic plasticity for high-rate forming applications, Comput Methods Appl Mech Eng 131(1-2) 1-30 (Apr 1996), 12A699
Elastic-plastic stress-strain calculation in notched bodies subjected to non-proportional loading, Int J Fracture 76(1) 39-60 (1995), 12A743

254Z. Experimental techniques

18G2A steel (construction steel) cyclic behavior in the case of complex uniaxial loading, Eng Trans 43(1-2) 327-355 (1995), 1A504
Effect of plastic prestrain magnitude on uniaxial tension creep of copper at elevated temperatures, J Theor Appl Mech 33(3) 507-517 (1995), 1A525
Experimental study of the plastic yielding of rolled sheet metals with the cruciform plate specimen, Int J Plasticity 11(5) 583-604 (1995), 1A526
Investigations of internal friction and constants of elasticity of solids by the acoustic resonance method, Arch Acoust 20(1) 95-110 (1995), 1A527
Determination of ductile fracture (ductility) at any stress state by means of the uniaxial tensile test, J Mat Processing Tech 53(3-4) 582-587 (Sep 1995), 3A480
New data on torsion-tension of the D16T alloy, Mech Solids 30(2) 162-167 (1995), 5A443
Controlled indentation: A general approach to determine mechanical properties of brittle materials, Acta Mat 44(3) 1127-1141 (Mar 1996), 8A690
Applicability of the ratios of the theories of elasto-plastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, Prikl Mekh (Appl Mech) 31(8) 3-10 (1995), 9T522
Evolution of kinematic and isotropic hardening in the case of complex uniaxial loading, J Theor Appl Mech 34(2) 371-389 (1996), 10A542
Application of infrared radiation detection to the metal behavior investigation under mechanical loading, J Theor Appl Mech 34(2) 439-458 (1996), 10A564
Critical point of the elastoplastic transition in terms of thermomechanical coupling, J Theor Appl Mech 34(2) 281-306 (1996), 10A565
Experimental setup for tests under biaxial tension of anisotropic cruciform specimen, J Theor Appl Mech 34(2) 391-404 (1996), 10A843
Trends of experimental mechanics, J Theor Appl Mech 34(2) 207-233 (1996), 10A844
New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, J Theor Appl Mech 34(2) 259-280 (1996), 10A846
Measurement of friction and material flow-stress by a plane-strain compression tribometer, J Mat Processing Tech 57(3-4) 345-350 (Feb 1996), 12A947

256. COMPOSITE MATERIAL MECHANICS

256A. General theory

Determination of normalized nonlinear mechanical properties of composite materials with perodically curved layers, Int J Solids Struct 32(21) 3129-3143 (Nov 1995), 1A528
New mathematical model of non-uniform deformations of composites (Russian), Mech of Composite Mat T31(3) 310-318 (Jun 1995), 1A529
Saint-Venant end effects for plane deformations of elastic composites, Mech Composite Mat Struct 2(3) 203-214 (Sep 1995), 1A530
Finite element approach to 3D singular stress states in anisotropic multi-material wedges and junctions, Int J Solids Struct 33(1) 33-47 (Jan 1996), 2A377
Geometrical-parameter bounds on the effective moduli of composites, J Mech Phys Solids 43(10) 1587-1613 (Oct 1995), 2A408
Damage Tolerance in Advanced Composites (Technomic, Lancaster PA, 1995) 3R16
Bounds on elastic moduli of composites, J Mech Phys Solids 43(11) 1825-1853 (Nov 1995), 3A481
Gradient theory of shear for multilevel composites, Mech Solids 30(1) 113-120 (1995), 3A482
Micro-mechanical model of a composite containing a conservative nonlinear electro-magneto-thermo-mechanical material, J Intelligent Mat Syst Struct 6(5) 691-699 (Sep 1995), 3A483
Unified energy approach to a class of micromechanics models for composite materials, Acta Mech Sinica 11(1) 59-75 (1995), 3A508
Influence of the intermediate material on the order of stress singularity in three-phase bonded structure, Int J Solids Struct 33(3) 399-417 (Jan 1996), 4A432
Constitutive equation for inelastic behavior of FRP considering damage: Application to CFRP [± 45°]4 subjected to cyclic loading (Japanese), J Soc Mat Sci Japan 44(505) 1261-1266 (Oct 1995), 4A477
Microbuckle initiation in fiber composites: A FE study, J Mech Phys Solids 43(12) 1887-1918 (Dec 1995), 4A478
Effect of spatial distribution on the effective behavior of composite materials and cracknd media, J Mech Phys Solids 43(12) 1919-1951 (Dec 1995), 4A728
Anisotropic yield surface model for directionally reinforced metal-matrix composites, Int J Plasticity 11(8) 867-894 (1995), 5A456
Functional series and Hashin-Shtrikman type bounds on the effective conductivity of random media, European J Appl Math 6(6) 611-629 (Dec 1995), 5A462
Composite Materials: Fatigue and Fracture, Fifth Volume (ASTM, 1995) 6N21
Improved bounds for the elastic moduli of perfectly-random composites, J Elast 41(1) 1-12 (Oct 1995), 6A414
Microstructures with finite surface energy: The two-well problem, Arch Rational Mech Anal 132(2) 101-141 (1995), 6A415
Hiping conditions for processing of metal matrix composites using the continuum theory for sintering - I: Theoretical analysis, Acta Mat 44(2) 707-713 (Feb 1996), 6A582
Computer-Aided Design of Polymer-Matrix Composite Structures - Mechanical Engineering Series, 99 (Marcel Dekkor, New York, 1995) 7N13
Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 7N18
Finite deformation of nonlinear composite materials - Part I: Instantaneous constitutive relations, Int J Solids Struct 33(9) 1271-1286 (Apr 1996), 7A539
Finite deformation of nonlinear composite materials - Part II: Evolution of the microstructure, Int J Solids Struct 33(9) 1287-1303 (Apr 1996), 7A540
Marginal effects in composites (Russian), Prikl Mekh (Appl Mech) 31(3) 3-23 (1995), 7A541
Study of the composite resistance under compression along two parallel structural on the interfaces, Prikl Mekh (Appl Mech) 30(11) 18-25 (1994), 7A542
Formulation of constitutive equations for fiber-reinforced composites with different behavior in tension and compression, Mech Res Commun 23(1) 55-60 (Feb 1996), 7T561
Micromechanics-based nonlocal constitutive equation and estimates of representative volume element size for elastic composites, J Mech Phys Solids 44(4) 497-524 (Apr 1996), 8A6
Global analysis of structural evolution in a row of grains, J Mech Phys Solids 44(4) 559-581 (Apr 1996), 8A9
Micromechanics and homogenization of inelastic composite materials with growing cracks, J Mech Phys Solids 44(3) 333-370 (Mar 1996), 8A441
TMS-AIME Symposium on structure and properties of nanophase materials Las Vegas, Nevada, Feb 13-15, 1995, Nanostruct Mat 7(1-2) 1-268 (1996), 8A563
Complete systems of double- and triple-periodical frequency solutions and equations of the elasticity theory in spherical coordinates, Prikl Mekh (Appl Mech) 31(8) 29-34 (1995), 9A523
Macroscopic elastic and conductivity properties of perfectly random cell composites, Int J Solids Struct 33(12) 1745-1755 (May 1996), 9A524
Stability problems of composite materials under compression along the interlayer cracks: Periodic system of parallel macrocracks, Prikl Mekh (Appl Mech) 31(7) 55-62 (1995), 9A612
Nonlinear and postbuckling responses of curved composite panels with cutouts, Composite Struct 34(2) 213-240 (1996), 9A614
Coupled incremental damage and plasticity theory for metal matrix composites, J Mech Behavior Mat 6(3) 193-219 (1996), 9A783
Fracture of infinite compressible composite containing finite cylindrical crack under the conditions of axial compression, Prikl Mekh (Appl Mech) 31(9) 15-23 (1995), 9A791
Critique of two explicit schemes for estimating elastic properties of multiphase composites, Mech Mat 22(2) 149-164 (Feb 1996), 9A857
Constitutive model for thermomechanical response of decomposing composites under high heating rates, Mech Mat 22(3) 189-201 (Mar 1996), 10A566
Generalized self-consistent model for composites with functionally graded and multilayered interphases: Transfer matrix approach, Mech Mat 22(3) 219-247 (Mar 1996), 10A567
Mixed variational formulation for interlaminar stresses in thickness-tapered composite laminates, Int J Solids Struct 33(16) 2377-2399 (Jul 1996), 10A568
Static state of a two-phase solid mixture in a stressed elastic bar, Int J Solids Struct 33(16) 2267-2281 (Jul 1996), 10A569
Advanced Ceramic Matrix Composites: Design Approaches Testing and Life Prediction Methods (Technomic, Lancaster PA, 1995) 11N26
Proceedings of the Tenth International Conference on Composite Materials (Technomic, Lancaster PA, 1995) 11N35
Progress in Durability Analysis of Composite Systems - Proc of Int Conf DURACOSYS 95, Brussels, Belgium, July 1995 (Balkema, Rotterdam, Netherlands, 1996) 11N36
Behavior of composites on bounded domain, Boundary Elements Comm 7(1) 6-8 (1996), 11A57

Analytical and experimental mechanics of woven fabric composites, Mech Composite Mat Struct 3(2) 133-152 (Jun 1996), 11A464
Bounds on the off-diagonal coefficients of the homogenized constitutive tensor of a composite material, Mech Res Commun 23(3) 239-245 (Jun 1996), 11T465
Effective elastic moduli of misoriented short-fiber composites, Int J Solids Struct 33(17) 2519-2539 (Jul 1996), 11A466
Equivalence of the mechanical and entropic descriptions of elastothermodynamic damping in composite materials, Mech Composite Mat Struct 3(2) 83-95 (Jun 1996), 11A467
Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, Mech Composite Mat Struct 3(2) 153-179 (Jun 1996), 11A468
Mechanics and physics of layered and graded materials: Papers from the Engineering Foundation Conference on Mechanics and Physics of Layered and Graded Materials held in Davos, Switzerland, August 21-25, 1995, J Mech Phys Solids 44(5) 647-825 (May 1996), 11A487
General treatment of an oblique crack near a bimaterial interface under antiplane loading, Int J Solids Struct 33(17) 2485-2500 (Jul 1996), 11A662
Computer Aided Design in Composite Technology V - Proc of 5th Int Conf, CADCOMP 96, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 12N20
Exact second-order estimates for the effective mechanical properties of nonlinear composite materials, J Mech Phys Solids 44(6) 827-862 (Jun 1996), 12A530
Derivative based approximation for predicting the effect of changes in laminate stacking sequence, Struct Optim 11(3-4) 235-243 (Jun 1996), 12A810
Theory and synthesis of advanced thermal-protective composite materials, Appl Composite Mat 2(6) 367-384 (1995), 12A1288

256B. Particulate media, incl cements

Characterization of flexural toughness in fiber reinforced concretes, Cement & Concrete Composites 17(3) 239-254 (1995), 1A531
Investigations on the influence of the addition of carbon dioxide on the production and properties of rapidly set wood-cement composites, Cement & Concrete Composites 17(3) 187-197 (1995), 1A532
Novel technique for fiber-matrix bond strength determination for rupturing fibers, Cement & Concrete Composites 17(3) 219-227 (1995), 1A533
Investigation into the behavior and strength of bolted connections in ferrocement, J Ferrocement 25(3) 207-219 (Jul 1995), 1A951
Characterization of single particles, particulate materials and two-phase bodies, Acta Tech CSAV 40(4) 421-458 (1995), 1A1351
Current concrete strength tests suitable for high strength concrete, Mat Struct 28(181) 384-391 (Sep 1995), 2A409
Drying shrinkage model of concrete based on micromechanism in concrete (Japanese), Proc JSCE 500(V-28) 35-45 (Aug 1995), 2A410
Elevated temperature fracture particulate-reinforced aluminum - Part II: Micromechanical modeling, Fatigue Fracture Eng Mat Struct 18(9) 1031-1050 (Sep 1995), 2A411
Influence of masonry on time dependent deformations, Asian J Struct Eng 1(1) 92-100 (1995), 2A412
Justification and refinements of Model B3 for concrete creep and shrinkage - I: Statistics and sensitivity, Mat Struct 28(181) 415-430 (Sep 1995), 2A413
Study on the characterization of silica fume and the evaluation of properties of concrete containing silica fume (Japanese), Proc JSCE 500(V-28) 87-98 (Aug 1995), 2T414
Time dependent behavior of concrete in early ages and its modeling (Japanese), Proc JSCE 500(V-28) 123-133 (Aug 1995), 2A415
Modeling of pressureless constant heating rate sintering of ceramic matrix composites, J Mat Processing Tech 53(3-4) 617-629 (Sep 1995), 3A454
Compressive strength of structural fly ash concrete (French), Mat Struct 28(182) 459-463 (Oct 1995), 3A484
Influence of water content and temperature on the thermal conductivity of autoclaved aerated concrete (French), Mat Struct 28(182) 464-472 (Oct 1995), 3A485
Justification and refinements of model B3 for concrete creep and shrinkage - Part 2: Updating and theoretical basis, Mat Struct 28(182) 488-495 (Oct 1995), 3A486
Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, Mat Struct 28(182) 450-458 (Oct 1995), 3A487
Numerical study of marginal effects in adhesive compounds (Russian), Prikl Mekh (Appl Mech) 30(9) 31-40 (1994), 3A488
Soil modification by cement kiln dust, J Mat in Civil Eng 7(4) 218-222 (Nov 1995), 3A489
Theoretical prediction of drying shrinkage of concrete, J Mat in Civil Eng 7(4) 204-207 (Nov 1995), 3A490
Thermal expansion of concretes: Case study in Iowa, J Mat in Civil Eng 7(4) 246-251 (Nov 1995), 3A491
Acoustic-emission Kaiser effect in fly-ash cement mortar under compression, J Mat in Civil Eng 7(4) 212-217 (Nov 1995), 3A519
Frost resistance of roller-compacted high-volume fly ash concrete, J Mat in Civil Eng 7(4) 208-211 (Nov 1995), 3A521
Effect of composition on basic creep of concrete and cement paste, J Eng Mech 121(11) 1261-1270 (Nov 1995), 3A666
Fracture mechanical behavior of aggregate-cement matrix interfaces, J Mat in Civil Eng 7(4) 199-203 (Nov 1995), 3A719
Dynamic modeling of concrete railway sleepers, J Sound Vib 187(5) 799-813 (Nov 1995), 4A195
Thermal imaging of hazardous organic fluids in concrete, Mat Struct 28(183) 526-533 (Nov 1995), 4A447
Strengthening caused by power law creep deformation of dispersed particles in an elastic matrix, Int J Mech Sci 38(2) 203-218 (Feb 1996), 4A449
Effect of volume fraction of reinforcement on the elastic-viscoplastic response of metal-matrix composites, Int J Mech Sci 38(1) 19-39 (Jan 1995), 4A479
Properties of paste-rock interfaces and their influence on composite behavior, Mat Struct 28(183) 497-506 (Nov 1995), 4A480
Structure formation and strength development at early stage of hydration of rapid hardening portland cement (Japanese), J Soc Mat Sci Japan 44(505) 1238-1243 (Oct 1995), 4A481
Uniaxial tensile respone of microfiber reinforced cement composites, Mat Struct 28(183) 507-517 (31v 1995), 4A489
Crack front trapping in transformation-toughened ceramics, Int J Fracture 72(2) 171-181 (1995), 4A723
Rheological behavior of fresh concrete under different stresses (French), Mat Struct 28(183) 545-549 (Nov 1995), 4A767
Functional series and Hashin-Shtrikman type bounds on the effective conductivity of random media, European J Appl Math 6(6) 611-629 (Dec 1995), 5A462
Analytical study on strengthening of particulate reinforced metal matrix composites, Acta Mat 44(1) 69-77 (Jan 1996), 5A463
Composite plasticity model for concrete, Int J Solids Struct 33(5) 707-730 (Feb 1996), 5A464
Masonry as structured continuum, Meccanica 30(6) 673-683 (Dec 1995), 5A465
Punching of granular media: Application to concrete (French), Mat Struct 28(184) 582-585 (Dec 1995), 5A466
Expressions of fatigue life of ceramics with given survivability, Eng Fracture Mech 53(1) 49-55 (Jan 1996), 5A593
Crack phases of particulate-reinforced metal matrix composites, Fatigue Fracture Eng Mat Struct 18(11) 1299-1309 (Nov 1995), 5A638
Damage by the cracking of silicon particles in an Al-7Si-0.4 Mg casting alloy, Acta Mat 44(1) 25-33 (Jan 1996), 5A639
Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, Acta Mat 44(1) 279-287 (Jan 1996), 5A655
Finite element analysis of plastic relaxation and plastic accumulation at second phase particles, Acta Mat 44(2) 801-811 (Feb 1996), 6A14
Effects of particle morphology and spacing on the strain fields in a plastically deforming matrix, Acta Mat 44(2) 789-799 (Feb 1996), 6A416
Mechanical properties and water diffusion in polyester polymer concrete, J Eng Mech 121(12) 1359-1365 (Dec 1995), 6A417
Modeling the influence of filler particles on surface geometry in drawn PET film, J Strain Anal Eng Des 31(1) 65-73 (Jan 1996), 6A418
Role of expansion of mechanical behavior of concrete, J Struct Eng 121(12) 1795-1805 (Dec 1995), 6A419
Uniqueness of equilibrium solutions in nonlinear theory of elastic mixtures, Z Angew Math Mech 75(12) 947-950 (1995), 6T420
Cavity growth in ductile particles bridging a brittle matrix crack, Int J Fracture 72(3) 277-292 (1995), 6A656
Is no-tension design of safe concrete or rock structures always safe: Fracture analysis, J Struct Eng 122(1) 2-10 (Jan 1996), 6A736
Sliding wear behavior of Al-SiC particulate composites - Part I: Macrobehavior, Acta Mat 44(2) 451-460 (Feb 1996), 6A803
Sliding wear behavior of Al-SiC particulate composites - II: The characterization of subsurface deformation and correlation with wear behavior, Acta Mat 44(2) 461-473 (Feb 1996), 6A804
Combined experimental and numerical scheme for the determination of contact loads between cemented particles, Mech Mat 22(1) 43-50 (Jan 1996), 7A543
Experimental study of durability of reactive powder concretes, J Mat in Civil Eng 8(1) 1-6 (Feb 1996), 7A544
Experimental study of interphase friction contribution to strain resistance of polymers with dispersed reinforcement (Russian), Mech of Composite Mat 31(5) 579-583 (Oct 1995), 7A545
Mechanistic evaluation of fly ash asphalt concrete mixtures, J Mat in Civil Eng 8(1) 19-25 (Feb 1996), 7A546
Microstructural and phase characteristics of phosphogypsum-cement mixtures, J Mat in Civil Eng 8(1) 11-18 (Feb 1996), 7A547
Residual strain energy in composites containing particles, J Mat Res 11(2) 483-494 (Feb 1996), 7A548
Resilient modules of cement-stabilized phosphogypsum, J Mat in Civil Eng 8(1) 7-10 (Feb 1996), 7A549
Statistical mechanics model of phase transformation of zirconia particles in ceramics, Eng Fracture Mech 53(3) 311-327 (Feb 1996), 7A550
Stochastic parallel-brittle networks for modeling materials, J Eng Mech 122(2) 130-137 (Feb 1996), 7A551
Water content assessment of fresh concrete, Proc Inst Civil Eng Struct Build 110(4) 417-425 (Nov 1995), 7A552
Analysis of work-of-fracture method for measuring fracture energy of concrete, J Eng Mech 122(2) 138-144 (Feb 1996), 7A790
Mechanical Properties of Metallic Composites - Materials Engineering Series, 7 (Marcel Dekker, New York, 1995) 8N17
Mechanical Properties of Polymers and Composites, Second Edition, Revised and Expanded - Mechanical Engineering Series, 90 (Marcel Dekker, New York, 1995) 8N18
Singularities of an interface crack impinging on a triple grain junction, Int J Solids Struct 33(11) 1563-1573 (May 1996), 8A386
Role of strain gradients in the grain-size effect for polycrystals, J Mech Phys Solids 44(4) 465-495 (Apr 1996), 8A399
Creep simulation of polymer matrix-dispersed filler composites (Russian), Mech of Composite Mat T31(6) 754-768 (Dec 1995), 8A409
Steady state creep behavior of particulate-reinforced titanium matrix composites, Acta Mat 44(3) 927-935 (Mar 1996), 8A412
High strain rate deformation in particle reinforced metal matrix composites, Acta Mat 44(3) 1011-1019 (Mar 1996), 8A442
Microplane model for concrete - I: Stress-strain boundaries and finite strain, J Eng Mech 122(3) 245-254 (Mar 1996), 8A443
Microplane model for concrete - II: Data delocalization and verification, J Eng Mech 122(3) 255-262 (Mar 1996), 8A444
Stress singularities at triple junctions with freely sliding grains, Int J Solids Struct 33(11) 1535-1541 (May 1996), 8A445
Effect of reinforcement morphology on matrix microcracking, Acta Mat 44(3) 915-925 (Mar 1996), 8A641
Local fracture and crack growth behavior in a particulate composite material, J Reinforced Plastics Composites 15(2) 196-207 (Feb 1996), 8A654
Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, Acta Mat 44(3) 899-914 (Mar 1996), 8A655
Effect of size distribution of powders on yield value and viscosity of mortar (Japanese), Proc JSCE 532(V-30) 151-158 (Feb 1996), 9A525
Masonry-like solids with bounded compressive strength, Int J Solids Struct 33(14) 1961-1994 (Jun 1996), 9A526
Analytical model for fracture behaviors of pseudo strain-hardening cementitious composites, Proc JSCE 532(V-30) 209-219 (Feb 1996), 9A740
Crack tip damage development and crack growth resistance in particulate reinforced metal matrix composites, Eng Fracture Mech 53(6) 873-895 (Apr 1996), 9A815
Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite, Eng Fracture Mech 53(6) 897-910 (Apr 1996), 9A822
ASME 1995 Nadai lecture: Plasticity of porous and particulate materials, J Eng Mat Tech 118(2) 145-156 (Apr 1996), 10A553
Mechanical behavior of cementitious matrix composites, Cement & Concrete Composites 18(1) 9-22 (1996), 10A570
Elasticity and fracture in particulate composites with strong and degraded interfaces, J Mat Res 11(5) 1293-1304 (May 1996), 10A792
Effect of temperature and salt contamination on carbonation of cements, J Mat in Civil Eng 8(2) 63-69 (May 1996), 11A469
Finite strain elastic-plastic model for the quasi-static behavior of particulate composites, Int J Eng Sci 34(6) 677-698 (May 1996), 11A470
Modeling of metal matrix composites by a self-consistent embedded cell model, Acta Mat 44(6) 2465-2478 (Jun 1996), 11A471
Special Issue: Wood and Wood-based materials, J Soc Mat Sci Japan 45(4) 363-403 (Apr 1996), 11T472
Stress-strain relationship of high-strength concrete in compression, J Mat in Civil Eng 8(2) 70-76 (May 1996), 11A473
Anisotropic shear modulus of wood-based composite (Japanese), J Soc Mat Sci Japan 45(5) 566-571 (May 1996), 12T531
New equation for the determination of the thermal expansion coefficient of particulate composites, Adv Composites Letters 5(1) 15-19 (1996), 12A532
Surface-subsurface damage and the fracture strength of ground ceramics, J Mat Processing Tech 57(3-4) 207-220 (Feb 1996), 12A763

256D. Carbon fiber reinforced media

Influence of fiber irregularity on the tensile properties of carbon and glass fibers, Composites Sci Tech 54(2) 169-175 (1995), 1A534
Post-impact compressive behavior of low temperature curing woven CFRP laminates, Composites 26(9) 661-667 (Sep 1995), 1A535
Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, Composite Struct 31(3) 235-241 (1995), 1A755
Compressive behavior of a titanium metal matrix composite with a circular hole, Composite Struct 31(4) 315-324 (1995), 1A810
Effect of geometry on the properties of a dense alumina-carbon and epoxy laminate, Acta Metall Mat 43(9) 3261-3273 (Sep 1995), 1A812
Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, Composites Sci Tech 54(2) 133-145 (1995), 1A815
Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, Composites Sci Tech 54(2) 147-159 (1995), 1A816
Analytical-experimental evaluation of hybrid commingled carbon-glass-epoxy thick-section composites under compression, J Composite Mat 29(13) 1695-1718 (1995), 2A416
Crushing mechanism of carbon fiber-PEEK composite tubes, Composites 26(11) 749-755 (Nov 1995), 2A417
Effects of fiber-matrix adhesion on off-axis mechanical response in carbon-fiber-epoxy resin composites, Composites Sci Tech 54(3) 317-327 (1995), 2A418
Eighth International conference on composite structures, Composite Struct 32(1-4) 1-680 (1995), 2A419
Measurement of stress concentration in a fiber adjacent to a fiber break in a model composite, Composites Sci Tech 54(3) 237-249 (1995), 2A420
Mechanical behavior of carbon-carbon composites made with cold plasma treated carbon fibers, Composites 26(11) 791-797 (Nov 1995), 2A421
Influence of stress ratio on fatigue behavior in the transverse direction of unidirectional CFRPS, J Composite Mat 29(14) 1808-1822 (1995), 2A579
Weibull analysis of the strength of carbon fibers using linear and power law models for the length effect, J Composite Mat 29(14) 1873-1884 (1995), 2A605
Damaged elastoplastic behavior of $[+\psi, -\psi]_n$ fiber-reinforced composite laminates in biaxial loading, Composites Sci Tech 54(3) 275-285 (1995), 2A645
Failure in carbon-polyimide laminates under biaxial compression, J Composite Mat 29(14) 1850-1872 (1995), 2A648
Axial and interfacial shear stresses due to thermal mismatch in hybrid composite sheets, Composites Sci Tech 54(4) 417-422 (1995), 3A492
Interfacial shear strength of oxide films on carbon fibers formed by the sol-gel process, J Adhesion 52(1-4) 65-79 (1995), 3A698
Relationship between interphase composition, material properties, and residual thermal stresses in composite materials, J Adhesion 52(1-4) 101-113 (1995), 3A1184
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, Composite Struct 33(2) 109-119 (1995), 4A11
Constitutive equation for inelastic behavior of FRP considering damage: Application to CFRP $[\pm 45°]_4$ subjected to cyclic loading (Japanese), J Soc Mat Sci Japan 44(505) 1261-1266 (Oct 1995), 4A477
Comparative study of dynamic and static delamination behavior of carbon fiber-epoxy composite lami-

nates, Composites 26(12) 849-858 (Dec 1995), 4A482
Delamination-free and high efficiency drilling of carbon fiber reinforced plastics, J Composite Mat 29(15) 1988-2002 (1995), 4A483
Development of a tri-directional carbon fiber reinforced carbon composite for aerospace applications, J Brazilian Soc Mech Sci 17(2) 171-180 (1995), 4A484
Distribution of tensile strength and its simulation in long-carbon-fiber reinforced plastic (Japanese), J Soc Mat Sci Japan 44(505) 1267-1272 (Oct 1995), 4A485
Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, Composite Struct 33(2) 77-86 (1995), 4A486
Influence of water on mechanical properties and fracture mechanism of FRP-aramid honeycomb core sandwich material (Japanese), J Soc Mat Sci Japan 44(505) 1273-1278 (Oct 1995), 4A487
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Choese-head bolts, Composite Struct 33(2) 95-108 (1995), 4A488
Uniaxial tensile respone of microfiber reinforced cement composites, Mat Struct 28(183) 507-517 (31v 1995), 4A489
Effects of stress ratio on fatigue life of carbon-carbon composites, Theor Appl Fracture Mech 24(1) 21-31 (Dec 1995), 4A669
Microscopic fatigue damage progress in CFRP cross-ply laminates, Composites 26(12) 859-867 (Dec 1995), 4A672
Effects of seawater absorption on fatigue crack development in carbon-epoxy EDT specimens, Composites 26(12) 869-876 (Dec 1995), 4A674
Fatigue delamination growth in carbon fiber-reinforced aluminum laminates, Composites Part A Appl Sci and Manuf 27A(1) 9-15 (1996), 4A730
Low-energy Charpy impact of interleaved CF-EP laminates - Part I: Effects of interleaving on stiffness degradation, Appl Composite Mat 2(2) 119-133 (1995), 4A732
Modeling the effect of cracks on interlaminar shear strength, Composites Part A Appl Sci and Manuf 27A(1) 17-24 (1996), 4A735
Measurement of adhesion between carbon fibers and bismaleimide resins, J Adhesion 53(1-2) 117-147 (1995), 5A467
Experimental techniques for the investigation of the effects of impact damage on carbon-fiber composites, Composites Sci Tech 55(2) 157-169 (1995), 5A644
Fiber-matrix bond strength of CFRP deduced from the strength transverse to the fibers, J Adhesion 53(1-2) 79-101 (1995), 5A645
Fractographic analysis of delamination within multidirectional carbon-epoxy laminates, Composites Sci Tech 55(2) 195-207 (1995), 5A646
Influence of cooling rate on interlaminar fracture properties of unidirectional commingled CF-PEEK composites, Appl Composite Mat 2(3) 135-151 (1995), 5A648
Non-axisymmetric matrix cracking in unidirectional brittle matrix composites, Eng Fracture Mech 53(1) 57-68 (Jan 1996), 5A654
Model to predict the through-thickness distribution of heat generation in cross-ply carbon-fiber composites subjected to alternating magnetic fields, Composites Sci Tech 55(2) 119-130 (1995), 5A1168
Carbon Fibers: Formation, Structure, and Properties (CRC Press, Boca Raton FL, 1995) 6N20
Carbon-fiber-titanium silicide interphase-titanium-matrix composites: Fabrication, structure and mechanical properties, Composites Sci Tech 55(3) 255-260 (1995), 6A421
Effect of fiber architecture on the mechanical properties of carbon-carbon fiber composites, Acta Mat 44(2) 573-585 (Feb 1996), 6A422
Evaluation of the effect of sizing levels on transverse flexural and shear strengths of carbon-epoxy composites, J Mat Processing Tech 54(1-4) 17-20 (Oct 1995), 6A423
Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, Composites Sci Tech 55(3) 223-229 (1995), 6A424
Scaling effects in the energy absorption of carbon-fiber-PEEK composite tubes, Composites Sci Tech 55(3) 211-221 (1995), 6A425
Thermally-induced deformations of constrained and unconstrained orthotropic composite rings, Composites Sci Tech 55(3) 287-315 (1995), 6A426
Effect of impact and fatigue loads on the strength of plain weave carbon-epoxy composites, J Mat Processing Tech 55(2) 58-62 (Nov 1995), 7A553
Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), J Soc Mat Sci Japan 44(507) 1433-1438 (Dec 1995), 7A554
Effect of testing temperature on the energy absorption behavior of carbon fiber-PEEK composite tubes, J Reinforced Plastics Composites 15(1) 30-47 (Jan 1996), 7A555
Study on the size effect of tensile characteristics of carbon fiber-reinforced cement composites, Composites Part A Appl Sci and Manuf 27A(3) 183-187 (1996), 7A556
Temperature dependence of fluxural static strength of pitch-PAN hybrid unidirectional CFRP, J Soc Mat Sci Japan 44(507) 1428-1432 (Dec 1995), 7A557
Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, Composite Struct 34(1) 91-100 (1996), 7A582
Mixed-mode fracture in an interleaved carbon-fiber-epoxy composite, Composites Sci Tech 55(4) 319-327 (1995), 7A836
Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, Composites Sci Tech 55(4) 405-412 (1995), 7A890
Assessment of carbon fiber-organic matrix interactions, J Adhesion 54(1-4) 1-22 (1995), 8A446
Characterization of SiC fiber (SCS-6) reinforced-reaction-formed silicon carbide matrix composites, J Mat Res 11(3) 746-751 (Mar 1996), 8A447
Characterization of the fiber-matrix interphase and its influence on mechanical properties of unidirectional composites, J Composite Mat 30(3) 309-332 (1996), 8A448
Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide, J Mat Res 10(11) 2925-2932 (Nov 1995), 8A449
Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, J Adhesion Sci Tech 10(1) 47-60 (1996), 8A450
Delamination growth and its effect on crack propagation carbon fiber reinforced aluminum laminates under fatigue loading, Acta Mat 44(3) 1181-1188 (Mar 1996), 8A569
Influence of two-stage loading on the longitudinal splitting of unidirectional carbon-epoxy laminates, Fatigue Fracture Eng Mat Struct 19(1) 65-74 (1996), 8A650
Optimization of the ultrasonic welding of PEEK-carbon composites, J Reinforced Plastics Composites 15(2) 174-182 (Feb 1996), 8A656
Compatibility of pitch-based carbon fibers with aluminum for the improvement of aluminum-matrix composites, Composites Sci Tech 56(2) 147-153 (1996), 9A527
Effect of spinning solution filterability on selected properties of precursor PAN fibers and carbon fibers manufactured therefrom, Fibres Textiles in E Europe 3(3) 44-47 (Aug 1995), 9A528
Effects of notch root radius on crack initiation and growth toughnesses of a cross-ply Ti-6Al-4V-SiC composite, Acta Mat 44(5) 1831-1838 (May 1996), 9A529
ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, Composites Part A Appl Sci and Manuf 27A(5) 365-377 (1996), 9A530
Application of Alfrey's model for the stress-deformation analysis of locknit fabrics, Fibres Textiles in E Europe 3(3) 33-35 (Aug 1995), 9A560
Statistics for the strength and size effects of micro-composites with four carbon fibers in epoxy resin, Composites Sci Tech 56(1) 75-92 (1996), 9A781
Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, Composites Sci Tech 56(1) 37-53 (1996), 9A818
Compressive failure due to shear instability: Experimental investigation of waviness and correlation with analysis, J Reinforced Plastics Composites 15(4) 420-439 (Apr 1996), 10A571
Performance of graphite-epoxy composite with embedded optical fibers under compression, Smart Mat Struct 5(2) 209-215 (Apr 1996), 11T474
Study of the interphase region in carbon fiber-epoxy composites using dynamic mechanical thermal analysis, J Adhesion 56(1-4) 247-260 (1996), 11A475
Hot pressing of plasma-sprayed SiC fiber-reinforced Ti-6Al-4V alloy, J Composite Tech Res 18(2) 89-95 (Apr 1996), 11A608
Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, Composites Part A Appl Sci and Manuf 27A(6) 493-502 (1996), 11A631
Interlaminar shear fatigue damage evolution of 2D carbon-carbon composites, J Composite Mat 30(7) 785-799 (1996), 11A633
Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part I: Experiments, J Composite Tech Res 18(1) 15-21 (Jan 1996), 11A637
Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part II: Analysis, J Composite Tech Res 18(1) 22-29 (Jan 1996), 11A638
Fracture behavior of unidirectional commingled-yarn-based carbon fiber-polyamide 6 composite under three-point bending, J Composite Mat 30(7) 760-784 (1996), 11A666
Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, J Composite Mat 30(6) 650-661 (1996), 11A685
Effect of fiber orientation on the energy absorption capability of carbon fiber-PEEK composite tubes, J Composite Mat 30(8) 947-963 (1996), 12A533
Estimating method for creep property of carbon fiber reinforced polyamide by enhancing stepwise temperature (Japanese), J Soc Mat Sci Japan 45(5) 507-510 (May 1996), 12A534
Fatigue life prediction of CFRP using evolution of creep property (Japanese), J Soc Mat Sci Japan 45(5) 502-506 (May 1996), 12A535
Microbuckle propagation in a unidirectional carbon fiber-epoxy matrix composite, Acta Mat 44(7) 2581-2590 (Jul 1996), 12A536
Stress distributions during fiber pull-out, J Appl Mech 63(2) 301-306 (Jun 1996), 12A537
Effect of short carbon fiber reinforcement on fatigue crack growth in PEEK, Composites Part A Appl Sci and Manuf 27A(7) 547-554 (1996), 12A710
Estimation of mode I interlaminar fracture toughness of CFRP laminates by using wedge insert fracture test (Japanese), J Soc Mat Sci Japan 45(5) 484-489 (May 1996), 12A731

256F. Other fiber reinforced media

FE stress and strain analysis in composites with embedded optical fiber sensors, Smart Mat Struct 4(2) 113-117 (Jun 1995), 1A14
Finite element simulation of powder consolidation in the formation of fiber reinforced composite materials, Int J Mech Sci 37(8) 883-897 (Aug 1995), 1A19
Analysis of viscoelastic behavior of fiber composite materials with time dependence of the interface, J Soc Mat Sci Japan 44(502) 911-915 (Jul 1995), 1A482
Binary model of textile composites - II: The elastic regime, Acta Metall Mat 43(9) 3511-3524 (Sep 1995), 1A536
Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, Composites 26(9) 611-617 (Sep 1995), 1A537
Elastic and thermoelastic properties of composites reinforced with short axisymmetric fibers, Int J Damage Mech 4(3) 264-282 (Jul 1995), 1A538
Evaluation of first ply failure in a 3D load space, J Composite Mat 29(12) 1649-1678 (1995), 1A539
Free edge effect on residual stresses and debond of a composite fiber-matrix interface, Mech Composite Mat Struct 2(3) 215-225 (Sep 1995), 1A540
Interfacial properties of microwave cured composites, Composites 26(9) 645-651 (Sep 1995), 1A541
Mathematical model for tensile behavior of hybrid continuous fiber cement composites, Composites 26(9) 637-643 (Sep 1995), 1A542
Modeling the effect of fiber breakage on the elastic properties of short-fiber composites, Composites Sci Tech 54(2) 113-122 (1995), 1A543
Prediction of impact damage thresholds of glass fiber reinforced laminates, Composite Struct 31(3) 185-193 (1995), 1A544
Rate-frequency-dependent behavior of fiberglass-epoxy laminates in tensile and cyclic loading, Composites 26(10) 719-723 (Oct 1995), 1A545
Stress redistribution around mechanical attachments in ceramic matrix composites, Composites 26(10) 683-690 (Oct 1995), 1A546
Stress-strain properties of coir fiber reinforced cement composite in axial compression, J Ferrocement 25(3) 221-238 (Jul 1995), 1A547
Thermoelastic constitutive modeling of irradiated polymer composites with matrix property change and fiber-matrix debonding, Composites Sci Tech 54(2) 201-210 (1995), 1A548
Transverse yielding and matrix flow past the fibers in metal matrix composites, Mech Mat 21(2) 159-167 (Aug 1995), 1A549
Use of solid-state reactions with volume loss to engineer stress and porosity into the fiber-matrix interface of a ceramic composite, Acta Metall Mat 43(9) 3333-3347 (Sep 1995), 1A550
Toughening of ceramics by short aligned fibers, Mech Mat 21(2) 139-146 (Aug 1995), 1A576
Fatigue failure mechanisms in fiber-reinforced plastic laminated tee joints, Int J Fatigue 17(6) 415-426 (Aug 1995), 1A756
Tension-compression fatigue behavior of fiber-reinforced ceramic matrix composite with circular hole, Composites 26(9) 631-636 (Sep 1995), 1A761
Viscoelastic effects on the interlaminar fracture behavior of thermoplastic matrix composites - I: Rate and temperature dependence in unidirectional PEI-carbon-fiber laminates, Composites Sci Tech 54(2) 193-200 (1995), 1A786
Effective elastic moduli in fiber reinforced composite with circular-arc shaped interfacial cracks, Int J Fracture 71(1) 85-93 (1995), 1A813
Notched strength of thermoplastic woven fabric composites, J Composite Mat 29(12) 1544-1564 (1995), 1A818
Scaling and multifractal character of matrix cracking in carbon fiber-reinforced cross-ply laminates, Mech Composite Mat Struct 2(3) 243-255 (Sep 1995), 1A821
Thermomechanical fatigue cracking in fiber reinforced metal-matrix composites, J Mech Phys Solids 43(9) 1433-1460 (Sep 1995), 1A823
Weibull statistics of fiber bundle failure using mechanical and acoustic emission testing: The influence of interfiber friction, Composites 26(10) 699-705 (Oct 1995), 1A824
Design of knitted fabric reinforced composites, J Reinforced Plastics Composites 14(10) 1032-1042 (Oct 1995), 2A422
Effects of reinforcement geometry on the elastic and plastic behavior of metal matrix composites, Acta Metall Mat 43(10) 3743-3754 (Oct 1995), 2A423
Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, J Mech Phys Solids 43(10) 1551-1585 (Oct 1995), 2A424
Experimental results and FE modeling of an embedded polarimetric sensor, Composites 26(11) 775-783 (Nov 1995), 2A425
Mehrphasige FE in der Verformungs- und Versagensanalyse grob mehrphasiger Werkstoffe (German), Arch Appl Mech 65(7) 496-506 (Sep 1995), 2T426
Pultrusion mechanics of fiber-reinforced thermoplastic composites (Russian), Mech of Composite Mat T31(4) 547-554 (Aug 1995), 2A427
Solid particle erosion behavior of FRMs (Japanese), J Soc Mat Sci Japan 44(503) 1092-1096 (Aug 1995), 2A428
Two approaches to interfacial shear strength calculation based on the single fiber composite test (Russian), Mech of Composite Mat T31(4) 446-461 (Aug 1995), 2A429
Determination of fiber-matrix interphase moduli from experimental moduli of composites with multi-layered fibers, Mech Mat 21(3) 191-215 (Oct 1995), 2A430
Permeability measurement of bidirectional woven glass fibers, J Reinforced Plastics Composites 14(10) 1108-1120 (Oct 1995), 2A556
Weibull modeling of particle cracking in metal matrix composites, Acta Metall Mat 43(10) 3685-3699 (Oct 1995), 2A606
Bending failure of aramid fiber-reinforced composite, Composites 26(11) 757-765 (Nov 1995), 2A640
Comparison of the fracture and failure behavior of polypropylene composites reinforced by long glass fibers and by glass mats, Composites Sci Tech 54(3) 287-298 (1995), 2A642
Failure envelopes for notched CSM laminates under biaxial loading, Composites 26(11) 739-747 (Nov 1995), 2A647
Fiber interactions in the multi-fiber composite fragmentation test, Composites Sci Tech 54(3) 251-266 (1995), 2A650
Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, J Composite Mat 29(13) 1719-1724 (1995), 2A1122
Thermal residual stresses in metal matrix composites: A review, Appl Composite Mat 2(1) 1-30 (1995), 2A1158
Steady-state power-law creep in "inclusion matrix" composite materials, Acta Metall Mat 43(11) 4027-4034 (Nov 1995), 3A451
Artificial neural networks for the prediction of mechanical behavior of metal matrix composites, Acta Metall Mat 43(11) 4083-4091 (Nov 1995), 3A493
Critical matrix yielding stress and interfacial fracture in forming of metal matrix composite wires, JSME Int J Ser A 38(4) 625-630 (Oct 1995), 3A494
Effects of processing conditions and interphase of modification on the fiber-matrix load transfer in single fiber polypropylene composites, J Adhesion 52(1-4) 81-100 (1995), 3A495
Estimation of fiber and interfacial shear strength by using a single-fiber composite, Composites Sci Tech 55(1) 33-39 (1995), 3A496
Fiber-reinforced laminated composite tubes with free ends under uniform internal pressure, J Mech Phys Solids 43(11) 1691-1725 (Nov 1995), 3A497
Geometric mapping of yarn structures due to shape change in 3D braided composites, Composites Sci Tech 54(4) 359-370 (1995), 3A498
Novel technique for determining the 3D spatial distribution of glass fibers in polymer composites, Composites Sci Tech 55(1) 75-91 (1995), 3A499
Residual strength of a glass-polypropylene composite material subjected to impact, Composites Sci Tech 55(1) 1-11 (1995), 3A500
Compression creep of pultruded E-glass-reinforced-plastic angles, J Mat in Civil Eng 7(4) 269-276 (Nov 1995), 3A513
Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, Composites Sci Tech 54(4) 349-358 (1995), 3A638
Fracture modeling of brittle-matrix composites with spatially dependent crack bridging, Fatigue Fracture Eng Mat Struct 18(10) 1213-1230 (Oct 1995), 3A694
Influence of matrix properties on fragmentation test, J Adhesion 52(1-4) 209-222 (1995), 3A695
Influence of reinforcement fracture on the cyclic stress-strain curve of metal-matrix composites, Acta Metall Mat 43(11) 3959-3969 (Nov 1995), 3A696

Mixed-mode fracture performance of fiber reinforced concrete under impact loading, Mat Struct 28(182) 473-478 (Oct 1995), 3A699

Time dependent crack growth in ceramic matrix composites with creeping fibers, Acta Metall Mat 43(11) 3927-3936 (Nov 1995), 3A704

Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, J Mat in Civil Eng 7(4) 252-257 (Nov 1995), 3A774

Closed-form solutions of the in-plane effective thermal conductivities of woven-fabric composites, Composites Sci Tech 55(1) 41-48 (1995), 3A1115

Thermoelastic load trasfer between twisted cord and matrix in composites, J Thermal Stresses 18(5) 551-571 (Oct 1995), 3A1169

Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, Finite Elements Anal Des 20(4) 283-298 (Sep 1995), 4A46

Creep phenomenon of simple composite structures, J Composite Mat 29(15) 2069-2089 (1995), 4A448

Tensile creep and creep rupture of continuous strand mat polypropylene composites, J Composite Mat 29(16) 2215-2227 (1995), 4A450

Creep characteristics of glass reinforced cement under flexural loading, Cement & Concrete Composites 17(4) 267-279 (1995), 4A490

Dynamic matrix cracking in fiber reinforced ceramics, J Mech Phys Solids 43(12) 1875-1886 (Dec 1995), 4A491

Effect of assumed tow architecture on predicted moduli and stresses in plain weave composites, J Composite Mat 29(16) 2134-2159 (1995), 4A492

Effects of interphase and impact strain rates on tensile off-axis behavior of unidirectional glass fiber composite: Experimental results, Eng Fracture Mech 52(5) 923-934 (Nov 1995), 4A493

Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, Int J Mech Sci 38(1) 97-120 (Jan 1995), 4A494

Finite Element study of bond-line-read-out, J Reinforced Plastics Composites 14(11) 1226-1249 (Nov 1995), 4A495

Hierarchical bending analysis of cord-rubber composites, AIAA J 33(12) 2359-2363 (Dec 1995), 4A496

Improved method for testing unidirectional FRP composites in tension, Composite Struct 33(1) 27-34 (1995), 4A497

Influence of fiber content and impactor parameters on transverse impact response of uniaxially reinforced composite plates, Composites 26(12) 877-886 (Dec 1995), 4A498

Influence of reinforcing layer orientation on impact response of plain weave RTM composites, J Reinforced Plastics Composites 14(11) 1199-1225 (Nov 1995), 4A499

Internal stresses in planar random fiber aluminum composites - I: Tensile tests and cyclic Bauschinger experiments at room temperature and 77 K, Acta Metall Mat 43(12) 4337-4348 (Dec 1995), 4A500

Internal stresses in planar random fiber aluminum composites - II: Mean stress hardening and relaxation, Acta Metall Mat 43(12) 4349-4356 (Dec 1995), 4A501

Nonlinear analysis of woven fabric composite materials by homogenization method considering microscopic fracture (Japanese), J Soc Mat Sci Japan 44(505) 1231-1237 (Oct 1995), 4A502

Numerical modeling of damage development and viscoplasticity in metal matrix composites, Comput Methods Appl Mech Eng 126(3-4) 289-303 (Oct 1995), 4A503

Compression-compression fatigue of 3D woven composites, Acta Metall Mat 43(12) 4235-4245 (Dec 1995), 4A667

Cyclic fatigue crack growth and fracture in knitted randomly oriented short-fiber composite, Eng Fracture Mech 52(6) 1151-1163 (Dec 1995), 4A668

Analysis of an axisymmetric matrix crack with interfacial debond, Int J Damage Moch 4(4) 319-337 (Oct 1995), 4A717

Assessment of failure criteria for fiber-reinforced composite laminates, Int J Fatigue 17(7) 513-518 (Oct 1995), 4A719

Combined effects of the fiber distribution and of the fiber matrix of interphase matrix transverse modulus ratio on the possible fracture modes of unidirectional composites submitted to a transverse loading, Acta Metall Mat 43(12) 4247-4266 (Dec 1995), 4A720

Experimental damage investigation of a SiC-Ti aluminide metal matrix composite, Int J Damage Mech 4(4) 338-361 (Oct 1995), 4A729

Mechanical behavior of an alumina carbon-epoxy laminate, Acta Metall Mat 43(12) 4483-4493 (Dec 1995), 4A733

Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, Mech Mat 21(4) 303-312 (Nov 1995), 4A734

Stress effects of inhomogeneous expansion-controlled matrices in continuous fiber composites, J Composite Mat 29(15) 2003-2024 (1995), 4A738

Toughness of interfaces from initial fiber-matrix debonding in a single fiber composite fragmentation test, Appl Composite Mat 2(2) 107-117 (1995), 4A739

Ultimate load behavior of bamboo-reinforced lightweight concrete beams, Cement & Concrete Composites 17(4) 281-288 (1995), 4A805

Orthotropic closure approximations for flow-induced fiber orientation, J Rheol 39(6) 1095-1122 (Dec 1995), 4A1005

Stability of thin-walled pultruded structural members by the FEM, Thin-Walled Struct 24(1) 1-18 (1996), 5A37

Measurement and prediction of time domain waveforms in fiber-reinforced laminates, J Acoust Soc Am 98(6) 3383-3390 (Dec 1995), 5A271

Anisotropic elasticity of oriented polyethylene materials, Composites Sci Tech 55(2) 131-138 (1995), 5A417

Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, Mat Struct 28(184) 586-595 (Dec 1995), 5A468

Predicting the properties of unidirectional fibrous composites with monotropic reinforcement, Composites Sci Tech 55(2) 139-143 (1995), 5A469

Study of orthotropic materials: The interphase model and the crack initiation, Arch Appl Mech 66(1-2) 111-125 (Dec 1995), 5A470

Modeling of the micromechanical behavior of unidirectional fiber-reinforced ceramics by the example of SiC-SiC, Arch Appl Mech 66(1-2) 34-44 (Dec 1995), 5A478

Time-dependent fatigue crack growth in titanium metal matrix composites, Fatigue Fracture Eng Mat Struct 18(11) 1249-1262 (Nov 1995), 5A602

Statistical prediction of fatigue failure of fiber reinforced composite materials, Appl Composite Mat 2(3) 153-173 (1995), 5A615

Classification of crack-tip isochromatics in orthotropic composites, Eng Fracture Mech 53(1) 1-16 (Jan 1996), 5A637

Effects of external loading of fiber on fiber-matrix interfacial shear strength, J Adhesion 53(1-2) 33-44 (1995), 5A641

Fracture toughness and impact behavior of glass-fiber-reinforced polyamide 6,6 injection moldings, Composites Sci Tech 55(2) 109-118 (1995), 5A647

Transient thermal deformations of the interphase in polymer composites, J Adhesion 53(1-2) 69-78 (1995), 5A1196

CAD-CAM of 3D woven structures (preforms) for fiber-reinforced composites, Composites Part A Appl Sci and Manuf 27A(2) 111-117 (1996), 6A427

New resilient and bulky nonwovens and their applications, Fibres Textiles in E Europe 2(2) 28-29 (Jun 1994), 6T428

Nonwoven carriers for artificial leather, Fibres Textiles in E Europe 2(2) 30-32 (Jun 1994), 6T429

Software package for the prediction of woven fabrics' geometrical and mechanical properties, Fibres Textiles in E Europe 3(2) 49-52 (Jun 1995), 6T430

Stress characteristics of unidirectional composites with triple surface notches, Composites Sci Tech 55(3) 261-268 (1995), 6A431

Structure and properties of 3D braided composites including axial yarns, AIAA J 34(1) 209-211 (Jan 1996), 6T432

Use of aramide filaments (SVM) in the structure of bicomponent threads, Fibres Textiles in E Europe 3(1) 30-32 (Mar 1995), 6A433

Chip formation in orthogonal trimming of graphite-epoxy composite, Composites Part A Appl Sci and Manuf 27A(2) 121-133 (1996), 6A570

Machinability of light alloy MMCs, Composites Part A Appl Sci and Manuf 27A(2) 143-147 (1996), 6A573

Hiping conditions for processing of metal matrix composites using continuum theory for sintering - II: Application to fiber reinforced titanium alloys, Acta Mat 44(2) 715-724 (Feb 1996), 6A583

Fatigue behavior of polymer composite sandwich beams, J Composite Mat 29(18) 2423-2445 (1995), 6A605

Failure analysis of woven and braided fabric reinforced composites, J Composite Mat 29(17) 2334-2363 (1995), 6A664

Failure analysis of woven-fabric composites with molded-in holes, Composites Sci Tech 55(3) 231-239 (1995), 6A665

Fracture mechanics applied to glass fiber-epoxy matrix interface characterization, J Composite Mat 29(17) 2230-2253 (1995), 6A667

High temperature deformation and fracture of a fiber reinforced titanium matrix composite, Acta Mat 44(2) 683-695 (Feb 1996), 6A668

New model for interface failure in fiber-reinforced polymers, Composites Sci Tech 55(3) 269-276 (1995), 6A669

High temperature behavior of long fiber reinforced titanium under transverse loading, Acta Mat 44(2) 643-656 (Feb 1996), 6A1172

Ballistic impact response for two-step braided 3D textile composites, AIAA J 34(2) 375-384 (Feb 1996), 7A251

Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, Thin-Walled Struct 24(4) 335-352 (1996), 7A558

Experimental study of impregnation conditions on glass fiber reinforced thermoplastic polyester elastomer composites, J Reinforced Plastics Composites 15(1) 16-29 (Jan 1996), 7A559

Fiber sliding model accounting for interfacial micro-dilatancy, Mech Mat 22(1) 65-84 (Jan 1996), 7A560

Formulation of constitutive equations for fiber-reinforced composites with different behavior in tension and compression, Mech Res Commun 23(1) 55-60 (Feb 1996), 7T561

Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, J Reinforced Plastics Composites 15(1) 48-73 (Jan 1996), 7A562

Manufacturing model for 3D irregular pultruded graphite-epoxy composites, Composites Part A Appl Sci and Manuf 27A(3) 201-210 (1996), 7A563

Processing of short fiber-thermosetting matrix composites, Composites Part A Appl Sci and Manuf 27A(3) 229-240 (1996), 7A564

Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, Composites Sci Tech 55(4) 391-403 (1995), 7A565

Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, J Mat Processing Tech 55(3-4) 171-177 (Dec 1995), 7A781

Intensity-based optical fiber sensor for fatigue damage detection in advanced fiber-reinforced composites, Smart Mat Struct 4(4) 223-230 (Dec 1995), 7A806

Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - I: Inner crack tip away from or terminating at the interface, Eng Fracture Mech 53(3) 457-464 (Feb 1996), 7A826

Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - II: The crack going through the bimaterial interface into the fiber, Eng Fracture Mech 53(3) 465-471 (Feb 1996), 7A827

Fracture statistics of a unidirectional composite, Int J Fracture 73(2) 149-181 (1995), 7A832

Size effects in interlaminar tensile and shear strength of unidirectional glass fiber-epoxy, J Reinforced Plastics Composites 15(1) 2-15 (Jan 1996), 7A840

Neural networks with modified backpropagation learning applied to structural optimization, AIAA J 34(2) 408-412 (Feb 1996), 7A905

Thermoelastic properties of short-coated fiber composites: Effects of length and orientation distributions, Composites Sci Tech 55(4) 329-341 (1995), 7A1293

Mechanical Properties of Metallic Composites - Materials Engineering Series, 7 (Marcel Dekker, New York, 1995) 8N17

Mechanical Properties of Polymers and Composites, Second Edition, Revised and Expanded - Mechanical Engineering Series, 90 (Marcel Dekker, New York, 1995) 8N18

Testing of Fiber Reinforced Concrete (Am Concrete Inst, Detroit, 1995) 8N23

Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, Int J Pressure Vessels Piping 67(1) 11-15 (1996), 8A20

Cyclic anisotropic-plasticity model for metal matrix composites, Int J Plasticity 12(1) 69-91 (1996), 8A437

Case studies on the elastic-plastic creep in the metallic matrix of fiber-reinforced composite materials, Arch Appl Mech 66(3) 159-167 (Jan 1996), 8A451

Engineering the interface in composites and bonded components, J Adhesion 54(1-4) 133-143 (1995), 8A452

Enhanced cell model with nonlinear elasticity, J Composite Mat 30(2) 248-279 (1996), 8A453

Improved mechanical properties in hydrodynamically-aligned, short-fiber composite materials, J Composite Mat 30(1) 2-12 (1996), 8A454

Predicting warpage of injection molded fiber-reinforced plastics, J Thermoplastic Composite Mat 9(1) 90-106 (Jan 1996), 8A455

Three-dimensional axisymmetric analysis of a cracked fiber in a transversely-isotropic elastic medium, Mech Res Commun 23(2) 171-174 (Apr 1996), 8A456

Failure of fiber-reinforced granular soils, J Geotech Eng 122(3) 226-234 (Mar 1996), 8A532

Fatigue degradation and life prediction of glass fabric polymer composite under tension-torsion biaxial loadings, J Reinforced Plastics Composites 15(2) 183-195 (Feb 1996), 8A582

Fatigue life prediction of fiber-reinforced titanium matrix composites, Acta Mat 44(3) 1097-1108 (Mar 1996), 8A583

Influence of loading levels, temperature, and environment on fiber failure during the fatigue of an SiC fiber-reinforced Ti-MMC, Int J Fatigue 18(1) 1-8 (Jan 1996), 8A585

Cracks in fibrous composites: Determination of the stress intensity factor by the polarized-optical method (Russian), Mech of Composite Mat T31(6) 769-775 (Dec 1995), 8A638

Effect of interfacial strength on erosion behavior of FRPs, J Composite Mat 30(1) 35-50 (1996), 8A640

Experimental evaluation of the strength distribution of E-glass fibers at high strain rates, Appl Composite Mat 2(4) 257-264 (1995), 8A646

Interlaminar fracture analysis of composite DCB specimens, Int J Fracture 74(3) 277-287 (1995), 8A651

Through-the-thickness tension strength of 3D braided composites, J Composite Mat 30(1) 51-68 (1996), 8A661

Characteristics of concrete reinforced with San fibers, J Ferrocement 26(1) 1-10 (Jan 1996), 8A742

Thermoelastoplastic analysis of a filamentary metal matrix composite, Appl Composite Mat 2(4) 199-216 (1995), 8A1231

Plate wave flow patterns for ply orientation imaging in reinforced composites, Mat Eval 54(4) 518-523 (Apr 1996), 9A267

Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, Composites Part A Appl Sci and Manuf 27A(5) 357-364 (1996), 9A531

Flow of continuous fiber-reinforced composites in steady shear, Composites Sci Tech 56(1) 63-74 (1996), 9A532

Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), J Comput Struct Mech Appl 12(4) 387-393 (Nov 1995), 9A533

Mechanical property enhancement of glass fiber-reinforced polyamide composite made by direct injection molding process, Composites Part A Appl Sci and Manuf 27A(5) 379-384 (1996), 9A534

Superplasticity and cavitation in light metal matrix composites (Japanese), J Soc Mat Sci Japan 45(2) 149-156 (Feb 1996), 9T535

Thick-section AS4-graphite-E-glass-PPS hybrid composites - Part I: Tensile behavior, Composites Sci Tech 56(2) 181-192 (1996), 9A536

Visualization of representative volume elements for 3D four-step braided composites, Composites Sci Tech 56(2) 161-170 (1996), 9A537

Local buckling of pultruded FRP beams: Analysis and design, J Reinforced Plastics Composites 15(3) 283-294 (Mar 1996), 9A621

Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, Composites Part A Appl Sci and Manuf 27A(5) 409-415 (1996), 9A708

Cycle time reduction in resin transfer molding by phased catalyst injection, Composites Sci Tech 56(2) 123-133 (1996), 9A719

Heated chamber winding of thermoplastic powder-impregnated composites - Part I: Technology and basic thermochemical aspects, Composites Part A Appl Sci and Manuf 27A(5) 387-392 (1996), 9A721

Heated chamber winding of thermoplastic powder-impregnated composites - Part 2: Influence of degree of impregnation on mechanical properties, Composites Part A Appl Sci and Manuf 27A(5) 393-399 (1996), 9A722

Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, Composites Sci Tech 56(1) 23-29 (1996), 9A752

Fracture of knitted randomly-oriented short-fiber composite, Int J Fracture 74(4) 363-381 (1995), 9A817

Prediction of the fracture strength of notched continuous fiber-reinforced laminates by interlaminar crack extension analysis, Composites Sci Tech 56(1) 11-21 (1996), 9A821

Re-examination of the analysis of in-plane matrix failures in fibrous composite laminates, Composites Sci Tech 56(2) 107-121 (1996), 9A823

Ultimate tensile strength of composites exhibiting fiber fragmentation, Composites Sci Tech 56(1) 31-35 (1996), 9A825

Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), J Soc Mat Sci Japan 45(2) 206-211 (Feb 1996), 9A826

New method to determine the R-curve of ceramics fracture grating method, Acta Mech Solida Sinica 9(1) 81-87 (1996), 9A856

Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), Proc JSCE 532(V-30) 119-129 (Feb 1996), 9A910

Finite-element analysis of selectively SiC fiber-reinforced titanium composites, Int J Fracture 75(2) 137-155 (1995), 10A12

Analysis of geometric imperfections affecting the fibers in unidirectional composites, J Composite Mat 30(4) 454-485 (1996), 10A572

Analysis of steel fiber pull-out from a cement matrix using video photography, Cement & Concrete Composites 18(1) 3-8 (1996), 10A573

Elastic-viscoplastic behavior of fiber-reinforced thermoplastic composites, J Reinforced Plastics Composites 15(4) 360-377 (Apr 1996), 10A574

Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics, Exp Mech 36(1) 33-41 (Mar 1996), 10A575

Textile composites, Composites Sci Tech 56(3) 209-386 (1996), 10A576

Die-less forming of large and variable-radii of curvature in continuous-fiber thermoplastic-matrix

composite materials, J Thermoplastic Composite Mat 9(2) 151-182 (Apr 1996), 10A717
Crack problem of a fiber-matrix composite with a nonhomogeneous interfacial zone under torsional loading - Part I: A cylindrical crack in the interfacial zone, Eng Fracture Mech 54(1) 63-69 (May 1996), 10A791
Moisture-induced degradation of glass-epoxy filament-wound composite tubes, J Thermoplastic Composite Mat 9(2) 118-128 (Apr 1996), 10A798
Controlling thermal stresses in composites by means of fiber prestress, J Composite Mat 30(4) 486-502 (1996), 10A1338
Can the compressive response of fiber-reinforced composites be modeled by means of layered arrays?, J Composite Mat 30(6) 662-671 (1996), 11A476
Influence of fiber length and concentration on the properties of glass fiber-reinforced polypropylene - I: Tensile and flexural modulus, Composites Part A Appl Sci and Manuf 27A(6) 477-484 (1996), 11A477
Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, J Composite Mat 30(7) 800-819 (1996), 11A478
Quantification of random fiber arrangements using a radial distribution function approach, J Composite Mat 30(6) 748-758 (1996), 11A479
Stress singularity due to kink band weakening a unidirectional composite under compression, J Composite Mat 30(6) 672-691 (1996), 11A480
Thick-section AS4-grapite-E-glass-PPS hybrid composites - Part II: Flexural response, Composites Sci Tech 56(4) 473-482 (1996), 11A481
Hydrodynamic machining of fiber-reinforced composites, J Composite Tech Res 18(2) 118-126 (Apr 1996), 11A594
Model to predict the fatigue life of fiber-reinforced titanium matrix composites under constant amplitude loading, Fatigue Fracture Eng Mat Struct 19(5) 539-550 (1996), 11A635
Crack-wake interfacial debonding criteria for fiber-reinforced ceramic composites, Acta Mat 44(6) 2211-2216 (Jun 1996), 11A674
Fracture and fatigue crack growth behavior of SiC_w/2124Al composites, J Composite Tech Res 18(1) 30-37 (Jan 1996), 11A681
Study of the failure behavior of key-lock joints in glass fiber reinforced plastic pipework, Composites Part A Appl Sci and Manuf 27A(6) 429-435 (1996), 11A687
Determination of rigidities of fiber-reinforced plastic laminates using holographic interferometry, AIAA J 34(6) 1301-1303 (Jun 1996), 11T704
Thermal model for 3D irregular shaped pultruded fiberglass composites, J Composite Mat 30(6) 692-721 (1996), 11A1252
Thermal residual stresses in the analysis of fiber-bridged matrix crack growth in titanium matrix composites, J Composite Tech Res 18(2) 67-79 (Apr 1996), 11A1253
Concretes with Dispersed Reinforcement - Russian Translations Series, 113 (Balkema, Rotterdam, Netherlands, 1995) 12N21
Directional permeability measurement of deformed reinforcement, J Reinforced Plastics Composites 15(6) 552-562 (Jun 1996), 12A486
Cyclic behavior of unidirectional and cross-ply titanium matrix composites, Int J Plasticity 12(3) 361-385 (1996), 12A518
Correlation between flexural and tensile fatigue response of short glass fiber reinforced plastics, Adv Composites Letters 5(2) 53-58 (1996), 12A538
Effect of processing residual stresses on stress-strain behavior of brittle matrix composites, Adv Composites Letters 5(2) 35-41 (1996), 12A539
Effect of support matrix on interfacial shear strength determination by the bimatrix fragmentation technique, Composites Part A Appl Sci and Manuf 27A(7) 505-515 (1996), 12A540
Effective dilatational response of fiber-reinforced composites with nonlinear interface, J Appl Mech 63(2) 357-364 (Jun 1996), 12A541
Elastic properties of polymer systems reinforced with short organic fibers, J Reinforced Plastics Composites 15(6) 602-618 (Jun 1996), 12A542
Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), J Soc Mat Sci Japan 45(5) 517-521 (May 1996), 12A543
Growth-of-waviness in fiber-reinforced polymer composites: Viscoelastic bifurcation and imperfection sensitivity, J Appl Mech 63(2) 460-466 (Jun 1996), 12A544
Influence of fiber length and concentration on the properties of glass fiber reinforced polypropylene - 2: Thermal properties, Composites Part A Appl Sci and Manuf 27A(7) 555-565 (1996), 12A545
Influence of fiber-matrix bond strength on the performance of nicalon-CAS-II composite, J Composite Mat 30(8) 864-884 (1996), 12A546
Influence of shear properties and fiber imperfections on the compressive behavior of GFRP laminates, Appl Composite Mat 2(6) 327-342 (1995), 12A547
Influence of water on energy absorption of filament winding ring under lateral impact loading (Japanese), J Soc Mat Sci Japan 45(5) 511-516 (May 1996), 12A548
Localization due to damage in two-direction fiber-reinforced composites, J Appl Mech 63(2) 321-326 (Jun 1996), 12A549
Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, Composite Struct 34(4) 381-385 (1996), 12A550
Orthotropic creep and complex moduli of a viscoelastic composite reinforced with aligned elliptic fibers, J Composite Mat 30(9) 1042-1066 (1996), 12A551
Stress field in coated continuous fiber-reinforced polymeric composite due to hygrothermal loading, J Reinforced Plastics Composites 15(6) 619-650 (Jun 1996), 12A552
Study on drilled hole quality in small diameter drilling of GFRP (Japanese), J Soc Mat Sci Japan 45(5) 522-526 (May 1996), 12A553
Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), J Soc Mat Sci Japan 45(5) 496-501 (May 1996), 12A554
Viscoelastic analysis of thick-walled filament-wound composite cylinders with elevated temperatures, AIAA J 34(7) 1526-1529 (Jul 1996), 12T555
Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, Acta Mech Solida Sinica 9(2) 184-188 (1996), 12A610
International Conference on Advances in Materials and Processing Technologies held at Dublin City University, Dublin, Ireland in August 1993, J Mat Processing Tech 56(1-4) 1-978 (Jan 1996), 12A671
Improvement in hole quality at laser drilling of GFRP (Japanese), J Soc Mat Sci Japan 45(5) 577-581 (May 1996), 12A701
Effects of matrix resin and fiber content on behavior of fatigue crack propagation in continuous-fiber-mat reinforced CP-resin composites (Japanese), J Soc Mat Sci Japan 45(5) 490-495 (May 1996), 12A713
Micromechanics of fiber pull-out, J Mech Phys Solids 44(7) 1147-1177 (Jul 1996), 12A727
Bridge-toughening analysis of the penny crack in a fiber-reinforced composite with interfacial effect, Int J Fracture 75(4) 335-346 (1995), 12A751
Influence of water absorption on transverse tensile properties and shear fracture toughness of glass-polypropylene, J Composite Mat 30(9) 1004-1019 (1996), 12A755
Modeling behavior of cross-ply ceramic matrix composites under quasi-static loading, Appl Composite Mat 2(5) 265-292 (1995), 12A757
Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, Appl Composite Mat 2(5) 293-311 (1995), 12A795
Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, Struct Optim 11(3-4) 228-234 (Jun 1996), 12A830
Sensitivity analysis and optimal design for fiber reinforced composite disks, Struct Optim 11(3-4) 178-186 (Jun 1996), 12A839
Joint characteristics of traditional Chinese wooden frames, Eng Struct 18(8) 635-644 (Aug 1996), 12A991

256H. Layered media

Free vibration of piezoelectric laminates in cylindrical bending, Int J Solids Struct 32(20) 2945-2960 (Oct 1995), 1A163
Formulation of impulsive response of an elastic layered half space using the eigenmodes given by the characteristic equation (Japanese), Proc JSCE 519(I-32) 149-159 (Jul 1995), 1A212
Apparent bending isotropy in clamped elliptic composite laminates, J Composite Mat 29(12) 1601-1620 (1995), 1A551
Biaxial compression of a thin layer with circular debonding over a substrate, Int J Solids Struct 32(23) 3465-3477 (Dec 1995), 1A552
Comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on FE analysis and extended classical lamination theory, Mech of Composite Mat T31(3) 341-350 (Jun 1995), 1A553
Deformation control of laminated composite plates containing piezoelectric layers under thermal loading, J Thermal Stresses 18(4) 449-464 (Aug 1995), 1A554
Design of laminated composites possessing specified homogenized characteristics, Comput Struct 57(4) 599-604 (Nov 1995), 1A555
Effective electrical conductivity of nonlinear laminate composites, Quart Appl Math 53(3) 433-464 (Sep 1995), 1A556
Evaluation of the influence of geometry and of material properties at free edges and at corners of composite laminates, Comput Struct 57(4) 555-571 (Nov 1995), 1A557
Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, Composites 26(10) 713-717 (Oct 1995), 1A558
Optimum stacking sequence of composite laminates for maximum strength, Mech of Composite Mat T31(3) 393-404 (Jun 1995), 1A559
Stress concentration of finite composite laminates weakened by multiple elliptical holes, Int J Solids Struct 32(20) 3001-3014 (Oct 1995), 1A560
Torsion of a compound bar bounded by cylindrical polar coordinates, Quart J Mech Appl Math 48(3) 389-400 (Aug 1995), 1A593
Deflection of sandwich plates in terms of corresponding Kirchhoff plate solutions, Arch Appl Mech 65(6) 408-414 (Jul 1995), 1A606
Modeling of delamination buckling in composite cylindrical shells with a new higher-order theory, Composites Sci Tech 54(2) 223-232 (1995), 1A666
Composite panels containing multiple through-the-width delaminations and subjected to compression - Part I: Analysis, Composite Struct 31(4) 273-296 (1995), 1A808
Composite panels containing multiple through-the-width delaminations and subjected to compression - Part II: Experiments and verification, Composite Struct 31(4) 297-314 (1995), 1A809
Determination of fiber-matrix interphase moduli from experimental moduli of composites with multi-layered fibers, Mech Mat 21(3) 191-215 (Oct 1995), 2A430
Effective tensile stiffness of finite-width quasi-isotropic laminates, J Reinforced Plastics Composites 14(10) 1043-1053 (Oct 1995), 2A431
Torsion of a composite tube, Z Angew Math Mech 75(9) 723-725 (1995), 2T432
Third International Conference on Flow processes in composite materials 94, held on July 7-9, 1994, Galway, Ireland, Composites Manuf 6(3-4) 119-295 (Dec 1995), 2A559
Statistical model of residual strength and fatigue life of composite laminates, Composites Sci Tech 54(3) 329-336 (1995), 2A581
Interfacial circular crack in cylindrically anisotropic composites under antiplane shear, Int J Solids Struct 32(24) 3603-3628 (Dec 1995), 2A653
Solutions of thermoelastic crack problems in bonded dissimilar media or half-plane medium, Int J Solids Struct 32(24) 3537-3554 (Dec 1995), 2A657
Optimal constrained layer damping of beams: Experimental and numerical studies, Shock Vib 2(6) 445-450 (1995), 3A122
Time-dependent response of IM7/5260 composites subjected to cyclic thermomechanical loading, Composites Sci Tech 55(1) 49-56 (1995), 3A471
Fiber-reinforced laminated composite tubes with free ends under uniform internal pressure, J Mech Phys Solids 43(11) 1691-1725 (Nov 1995), 3A497
Strength size effect of laminated composites, Composites Sci Tech 55(1) 93-105 (1995), 3A501
Stress-strain state of a three-layered cantilever panel with honeycomb filler, Mech Solids 30(1) 149-156 (1995), 3A502
Study of nonaxisymmetrical thermal and stressed state of laminar bodies of revolution with regard for rectilinear orthotropism of the layers, Prikl Mekh (Appl Mech) 30(9) 9-15 (1994), 3A503
Three-dimensional problems of multilayered periodic elastic composites, J Theor Appl Mech 33(4) 771-781 (1995), 3A504
Interaction between transverse cracks and delamination during damage progress in CFRP cross-ply laminates, Composites Sci Tech 54(4) 395-404 (1995), 3A697
Three-dimensional analysis of center-delaminated unidirectional and multidirectional single-leg bending specimens, Composites Sci Tech 54(4) 385-394 (1995), 3A703
Fractal property of matrix cracking in GFRP cross-ply laminates, JSME Int J Ser A 38(4) 446-452 (Oct 1995), 3A707
Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, JSME Int J Ser A 38(4) 458-464 (Oct 1995), 3A751
Modeling flexible sheets for automatic handling and lay-up of composite components, Proc Inst Mech Eng J Eng Manuf 209(B6) 423-432 (1995), 4T423
Influence of the intermediate material on the order of stress singularity in three-phase bonded structure, Int J Solids Struct 33(3) 399-417 (Jan 1996), 4A432
Accuracy of 1D models for multilayered composite beams, Int J Solids Struct 33(4) 521-544 (Feb 1996), 4A594
Combined experimental-numerical approach to characterization of steel-glue-concrete interface, Mat Struct 28(183) 518-525 (Nov 1995), 4A505
Design procedure for reducing the stress concentration around circular holes in laminated composites, Composites 26(12) 815-828 (Dec 1995), 4A506
Generalized Kelvin solutions in a multilayered elastic medium, J Elast 40(1) 1-43 (Jul 1995), 4A507
Materials selection, preliminary design and sizing for composite laminates, Composites Part A Appl Sci and Manuf 27A(1) 65-70 (1996), 4T508
Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, Int J Solids Struct 33(3) 375-398 (Jan 1996), 4A509
Stress and failure analysis for cross-plied curved composite laminates, AIAA J 33(12) 2433-2435 (Dec 1995), 4T510
Three dimensional analysis and resulting design recommendations for unidirectional and multidirectional end-notched flexure tests, J Composite Mat 29(16) 2108-2133 (1995), 4A511
Modeling the inelastic interphase in unidirectional composites, Mech Res Commun 22(6) 561-570 (Dec 1995), 4T533
Optimally reinforced cutouts in laminated circular cylindrical shells, Int J Mech Sci 38(2) 121-140 (Feb 1996), 4A556
Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, AIAA J 33(12) 2354-2358 (Dec 1995), 4A579
Delamination model for laminated composites, Int J Solids Struct 33(4) 483-509 (Feb 1996), 4A690
Damage-plasticity in a uniaxially loaded composite lamina: Overall analysis, Int J Solids Struct 33(4) 555-576 (Feb 1996), 4A725
Delamination buckling and growth of composite laminated plates with transverse shear deformation, J Composite Mat 29(15) 2047-2068 (1995), 4A726
Delamination fracture criteria for composite laminates, J Composite Mat 29(15) 1962-1987 (1995), 4A727
Fracture process zone concept and delamination of composite laminates, Theor Appl Fracture Mech 24(1) 57-64 (Dec 1995), 4A731
Ultrasonic evaluation of fatigue damage in metal matrix composites, Mech Mat 21(4) 251-263 (Nov 1995), 4A779
Effect of temperature changes on damping properties of sandwich cylindrical panels, Int J Solids Struct 33(6) 835-849 (Mar 1996), 5A110
Properties of eigenfunction expansion form for the rigid line problem in dissimilar media, Int J Solids Struct 33(5) 611-628 (Feb 1996), 5A390
Predictor-corrector zig-zag model for the bending of laminated composite plates, Int J Solids Struct 33(6) 879-897 (Mar 1996), 5A394
Contribution to the dynamics of a horizontally unstretchable half-space of the Westergaard type, Arch Appl Mech 66(1-2) 65-70 (Dec 1995), 5A471
Impact analysis of shear deformable laminated composite plates, J Energy Resources Tech 117(3) 219-227 (Sep 1995), 5A472
In-plane and interlaminar shear properties of carbon-epoxy laminates, Composites Sci Tech 55(2) 187-193 (1995), 5A473
Plane contact problem for periodic laminated composite involving frictional heating, Arch Appl Mech 66(1-2) 82-89 (Dec 1995), 5A474
Use of a rate-dependent continuum damage model to describe strain-softening in laminated composites, Comput Struct 58(6) 1083-1092 (Mar 1996), 5A475
Stress analysis of plates with bonded unbalanced laminates, Composite Struct 33(3) 173-190 (1995), 5A507
Boundary value problems in fracture of elastic composites, European J Appl Math 6(6) 591-610 (Dec 1995), 5A636
Effect of state of stress on compression failure in carbon-epoxy laminates, J Eng Mat Tech 117(3) 347-350 (Jul 1995), 5A640
Shearographic and holographic assessment of defective laminates with bond-lines of different elastisities, J Eng Mat Tech 117(3) 322-329 (Jul 1995), 5A656
Behavior of stitched laminates under in-plane tensile and transverse impact loading, J Composite Mat 29(17) 2254-2279 (1995), 6A434
Effect of a discrete load on a three-layer strip with viscoelastic middle layer, Mech Solids 30(3) 122-129 (1995), 6A435
Stitching vs a toughened matrix: Compression strength effects, J Composite Mat 29(18) 2464-2487 (1995), 6A436
Efficient modeling of postbuckling delamination growth in composite laminates using plate elements, AIAA J 34(1) 178-184 (Jan 1996), 6A625
Damage-resistant alumina-based layer composites, J Mat Res 11(1) 204-210 (Jan 1996), 6A659
Determination of Mode II delamination toughness of stitched laminated composites, Composites Sci Tech 55(3) 241-253 (1995), 6A660
Effect of treatment conditions on the mode I delamination fracture toughness of sandwich structures, J Composite Mat 29(17) 2295-2316 (1995), 6A662
Numerical study of the compression and shear failure of woven carbon-carbon laminates, J Composite Mat 29(18) 2446-2463 (1995), 6A670
Oscillations of stochastically laminar material in longitudinal direction, Prikl Mekh (Appl Mech) 30(12) 33-39 (1994), 7A123
Design and construction of hygro-thermally stable shells, Mech of Composite Mat T31(5) 677-683 (Oct 1995), 7A566
Dynamic tensile strength of composite laminate joints fastened mechanically, Theor Appl Fracture Mech 24(2) 147-155 (Jan 1996), 7A567
Model of the layered plate with nonideal contact of the layers (Russian), Mech of Composite Mat T31(5) 671-676 (Oct 1995), 7A568

Nonlinear deformation of layered-fibrous composites (Russian), Prikl Mekh (Appl Mech) 31(6) 49-56 (1995), 7A569
Simple FE formulation for a laminated composite plate with piezoelectric layers, J Intelligent Mat Syst Struct 6(6) 776-782 (Nov 1995), 7A570
Simple method of analysis for the preliminary design of particular composite laminated primary structures for civil construction, J Mat Processing Tech 55(3-4) 242-248 (Dec 1995), 7A571
Slip line at the out end on the interface of different media (Russian), Prikl Mekh (Appl Mech) 31(6) 86-91 (1995), 7A572
Large deflection dynamic response of composite laminated plates under in-plane loads, Composite Struct 33(4) 237-252 (1995), 7A610
Postprocess method using displacement field of higher order laminated composite plate theory, AIAA J 34(2) 362-368 (Feb 1996), 7A644
Magnetoelastic volume shift waves in periodically-laminar medium of the type ferrite-metal-dielectric (Russian), Prikl Mekh (Appl Mech) 31(5) 19-24 (1995), 7A682
Automating the manufacture of composite broadgoods, Composites Part A Appl Sci and Manuf 27A(3) 191-200 (1996), 7A759
Staged curing of composite materials, Composites Part A Appl Sci and Manuf 27A(3) 219-227 (1996), 7A760
Damage to stitched GRP laminates by underwater explosion shock loading, Composites Sci Tech 55(4) 365-374 (1995), 7A829
Interlaminar fracture behavior of sandwich structures, Composites Part A Appl Sci and Manuf 27A(3) 165-173 (1996), 7A834
Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, J Reinforced Plastics Composites 15(1) 3-15 (Jan 1996), 7A837
Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, Int J Damage Mech 5(1) 3-15 (Jan 1996), 7A838
Role of cooling pressure on interlaminar fracture properties of commingled CF-PEEK composites, Composites Part A Appl Sci and Manuf 27A(3) 175-182 (1996), 7A839
Bending of curved sandwich beams, Composite Struct 33(4) 211-225 (1995), 7A948
Nonstationary temperature field and thermoelastic state of bilayered hollow round cylinder under friction heating, Prikl Mekh (Appl Mech) 31(1) 44-50 (1995), 7A1280
Thermal stress state of laminated bodies of revolution of isotropic and rectilinear orthotropic materials (Russian), Prikl Mekh (Appl Mech) 31(4) 3-9 (1995), 7A1285
Finite element analysis of viscoplastic composites materials and structures, Mech Composite Mat Struct 3(1) 1-28 (Mar 1996), 8A15
Identifying the properties of individual plies constituting hybrid composites, Inverse Prob Eng 2(2) 141-154 (1995), 8A457
Interlaminar shear stress analysis of composite laminate with layer reduction technique, Int J Numer Methods Eng 39(5) 847-865 (Mar 1996), 8A458
Orientation dependent tensile deformation behavior of two-phase laminate composites: Model analysis and FE results, Acta Mat 44(3) 977-989 (Mar 1996), 8A459
Preliminary evaluation of hybrid titanium composite laminates, J Adhesion 54(1-4) 223-240 (1995), 8A460
Statistical description of composite laminate structure and damage by delamination, Theor Appl Fracture Mech 24(3) 197-201 (Mar 1996), 8A461
Refined theory of composite beams: The role of short-wavelength extrapolation, Int J Solids Struct 33(10) 1387-1408 (Apr 1996), 8A480
Study of fatigue damage and fatigue life of composite laminates, J Composite Mat 30(1) 123-137 (1996), 8A587
Effect of fatigue damage in woven composites on thermomechanical properties and residual compressive strength, J Composite Mat 30(2) 164-189 (1996), 8A639
Effect of transverse cracking on stiffness reduction of cross-ply laminates, Appl Composite Mat 2(4) 217-231 (1995), 8A642
Effective crack growth and residual strength of composite laminates with a sharp notch, J Composite Mat 30(3) 333-357 (1996), 8A643
Effective crack growth model for residual strength evaluation of composite laminates with circular holes, J Composite Mat 30(2) 142-163 (1996), 8A644
Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, J Reinforced Plastics Composites 15(2) 141-173 (Feb 1996), 8A645
Law of the transverse matrix crack growth in brittle polymeric matrix composite laminates under static loadings, J Composite Mat 30(3) 384-405 (1996), 8A653
Stochastic damage evolution modeling in laminates, J Thermoplastic Composite Mat 9(1) 21-34 (Jan 1996), 8A659
Technique for locally increasing surface heat spreading and through-thickness thermal conductivity of graphite-epoxy laminates, J Composite Mat 30(2) 231-247 (1996), 8A1235
Thermal buckling analysis of laminated composite plates with temperature-dependent material properties (Chinese), J Dalian Univ Tech 35(4) 463-467 (Aug 1995), 8A1236
Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), J Comput Struct Mech Appl 12(1) 53-59 (Feb 1995), 9A24
Nonstationary plane nonaxisymmetric deformation of a multilayered cylinder, Prikl Mekh (Appl Mech) 31(8) 40-47 (1995), 9A474
Analytical-generalized variational method of multi-region on solution of large scale delamination of laminate (Chinese), J Comput Struct Mech Appl 12(2) 152-159 (May 1995), 9A538
Dynamic singular solution of orthotropic layered elastic half-plane and its application, J Comput Struct Mech Appl 12(2) 231-238 (May 1995), 9A539
Effect of porosity on nonlinear deformation of layered fibrous materials, Prikl Mekh (Appl Mech) 31(9) 31-37 (1995), 9A540
Experimental validation of a methodology to quantify distributed damage in laminated composites using the thermoelastic effect, Exp Tech 20(2) 28-31 (Apr 1996), 9A541
Inter-relationships of elastic moduli and strains in crossply laminated composites, Composites Sci Tech 56(2) 135-146 (1996), 9A542
Spline variational 3D stress analysis of laminated composite plates with open holes, Int J Solids Struct 33(14) 2095-2118 (Jun 1996), 9A543
Stiffness loss in laminates with intralaminar cracks - Part I: 2D modeling, Arch Mech 48(1) 143-161 (1996), 9A544
Stiffness loss in laminates with intralaminar cracks - Part II: Periodic distribution of cracks and homogenization, Arch Mech 48(1) 163-190 (1996), 9A545
Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate, Int J Solids Struct 33(15) 2243-2259 (Jun 1996), 9A546
Prediction of overall average mechanical properties for multi-phase composites with imperfect interphase (Chinese), J Comput Struct Mech Appl 12(1) 39-46 (Feb 1995), 9A555
Dynamic stiffness analysis of laminated composite plates, Thin-Walled Struct 25(2) 109-133 (1996), 9A593
Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), J Comput Struct Mech Appl 12(2) 143-151 (May 1995), 9A636
Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayered cylindrical shells, AIAA J 34(4) 802-812 (Apr 1996), 9A647
Fatigue life prediction of composite laminates using a stress redistribution function, J Reinforced Plastics Composites 15(3) 249-266 (Mar 1996), 9A757
Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), J Soc Mat Sci Japan 45(2) 212-217 (Feb 1996), 9A774
Analysis of complex stress intensities for cracked laminates, Appl Math Mech 17(2) 119-132 (Feb 1996), 9A814
Modifying stacking-sequence design to delay delamination and matrix cracking in laminated composites: The multi-delamination-interface design, J Reinforced Plastics Composites 15(3) 230-248 (Mar 1996), 9A819
Thermal stresses of double-layer composite bar (Chinese), J Comput Struct Mech Appl 12(4) 462-468 (Nov 1995), 9A933
Response of single piles embedded layered halfspaces to arbitrary incident seismic waves (Chinese), J Comput Struct Mech Appl 12(4) 438-444 (Nov 1995), 9A1385
Antisymmetric vibrations of multilayered conical shells with constrained viscoelastic layers, Int J Solids Struct 33(16) 2331-2355 (Jul 1996), 10A180
Refined dynamic equations for multilayer shells with transversely soft fillers, Mech Solids 30(5) 136-145 (1995), 10A187
Equations of plane deformation for a plastic transversally-isotropic medium, Mech Solids 30(5) 96-102 (1995), 10T554
Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, J Composite Mat 30(5) 589-602 (1996), 10A577
Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, Arch Mech 48(2) 245-264 (1996), 10A578
Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, Arch Mech 48(2) 265-280 (1996), 10A579
Stress analysis of transistor structures considering the internal stress of thin films, JSME Int J Ser A 39(2) 166-171 (Apr 1996), 10A580
Continuous curing process for thermoset polymer composites - Part 2: Experimental results for a graphite-epoxy laminate, J Composite Mat 30(5) 627-647 (1996), 10A716
Analysis of local delaminations caused by angle ply matrix cracks, J Composite Mat 30(4) 418-440 (1996), 10A788
Comparative study of stresses near crack tip for layered and homogeneous models of composite, Int J Damage Mech 5(2) 171-189 (Apr 1996), 10A789
Multiple delaminations and their severity in circular axisymmetric plates subjected to transverse loading, J Composite Mat 30(4) 441-453 (1996), 10A799
Notched strength and effective crack growth in woven fabric composite laminates with circular holes, J Reinforced Plastics Composites 15(4) 344-359 (Apr 1996), 10A800
Progressive failure analysis of laminated composite beams, J Composite Mat 30(5) 536-560 (1996), 10A802
Stiffness loss of composite laminates with transverse cracks under Mode I and Mode III loading, Int J Damage Mech 5(2) 190-215 (Apr 1996), 10A803
Cylindrical bending of hybrid laminates under thermo-electro-mechanical loading, J Thermal Stresses 19(3) 287-296 (May 1996), 10A1339
Thermally-induced shapes of unsymmetric laminates, J Composite Mat 30(5) 603-626 (1996), 10A1341
Analysis of natural frequencies of delaminated composite beams based on FEM, Struct Eng and Mech 4(3) 243-255 (May 1996), 11A6
Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, Composite Struct 34(2) 349-355 (1996), 11A121
Certain two-punch problems for an elastic layer, Int J Solids Struct 33(19) 2759-2774 (Aug 1996), 11A424
Coupled layerwise analysis of thermopiezoelectric composite beams, AIAA J 34(6) 1231-1237 (Jun 1996), 11A482
Designing quasi-isotropic laminates with respect to bending, Composites Sci Tech 56(4) 461-472 (1996), 11A483
Effects of material nonlinearity on the 3D stress state of pin-loaded composite laminates, J Composite Mat 30(7) 839-861 (1996), 11A484
Interlaminar shear behavior of plain-weave GRP at static and high rates of strain, Composites Sci Tech 56(4) 391-405 (1996), 11A485
Iterative calculation of the transverse shear distribution in laminated composite beams, AIAA J 34(6) 1299-1300 (Jun 1996), 11T486
Mechanics and physics of layered and graded materials: Papers from the Engineering Foundation Conference on Mechanics and Physics of Layered and Graded Materials held in Davos, Switzerland, August 21-25, 1995, J Mech Phys Solids 44(5) 647-825 (May 1996), 11A487
Differential quadrature method for thick symmetric cross-ply laminates with first-order shear flexibility, Int J Solids Struct 33(18) 2647-2658 (Jul 1996), 11A491
Calculation of interlaminar stresses in laminated plates using Walsh transforms, AIAA J 34(6) 1295-1299 (Jun 1996), 11T519
Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, Composites Sci Tech 56(4) 407-422 (1996), 11A522
Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, Composites Sci Tech 56(4) 423-437 (1996), 11A523
Effect of cooling rate and stacking sequence on the fatigue behavior of notched quasi-isotropic AS4-PEEK laminates, J Composite Tech Res 18(2) 127-134 (Apr 1996), 11A630
Estimation of fatigue curves for design of composite laminates, Composites Part A Appl Sci and Manuf 27A(6) 485-491 (1996), 11A632
Delamination characteristics of double-cantilever beam and end-notched flexure composite specimens, Composites Sci Tech 56(4) 451-459 (1996), 11A677
Measurement of mixed-mode delamination fracture toughness of unidirectional glass-epoxy composites with mixed-mode bending apparatus, Composites Sci Tech 56(4) 439-449 (1996), 11A683
Study on the characteristic curve of stiffness degradation caused by transverse matrix cracking in multidirectional composite laminates, J Composite Mat 30(7) 820-838 (1996), 11A688
Tensile failure of 3D woven composites, Composites Part A Appl Sci and Manuf 27A(6) 447-458 (1996), 11A689
Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, Thin-Walled Struct 26(1) 45-60 (1996), 11A728
Interlacing for improved performance of laminates with embedded devices, Smart Mat Struct 5(2) 225-229 (Apr 1996), 11A736
Stress distributions in multi-fastened composite plates, Composite Struct 34(4) 427-436 (1996), 12A7
Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, Composite Struct 34(4) 387-395 (1996), 12A57
Analysis of adhesive bonded composite lap joints with transverse stitching, Appl Composite Mat 2(6) 343-465 (1995), 12A556
Analysis of composite laminates with transverse cracks, Composite Struct 34(4) 419-426 (1996), 12A557
Analysis of cracking in a layered medium with a functionally graded nonhomogeneous interface, J Appl Mech 63(2) 479-486 (Jun 1996), 12A558
Object-oriented approach to optimize composite laminated plate stiffness with discrete ply angles, J Composite Mat 30(9) 1020-1041 (1996), 12A559
Solution for the contact between two spherical particles undergoing large deformation, Acta Mat 44(7) 2591-2598 (Jul 1996), 12A560
Three-dimensional effective moduli of symmetric laminates, J Composite Mat 30(8) 906-917 (1996), 12A561
Scale models for laminated cylindrical shells subjected to axial compression, Composite Struct 34(4) 371-379 (1996), 12A596
Finite thermoelastic fracture criterion with application to laminate cracking analysis, J Mech Phys Solids 44(7) 1129-1145 (Jul 1996), 12A732
Interlaminar fracture of stitched GFRP laminates, Adv Composites Letters 5(1) 5-8 (1996), 12A756
Stress failure criterion for laminated composites, J Reinforced Plastics Composites 15(6) 563-574 (Jun 1996), 12A759
Fracture resistance to the crack propagation in wood, Int J Fracture 75(4) 347-356 (1995), 12A762
Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, J Mat Sci Mat Med 7(2) 109-117 (Feb 1996), 12A782
Derivative based approximation for predicting the effect of changes in laminate stacking sequence, Struct Optim 11(3-4) 235-243 (Jun 1996), 12A810

256J. Micromechanics

Analysis of single-layered corrugated core sandwich plate by homogeneous method: On the application of homogenization method to composite structures with only planar periodicity (Japanese), J Soc Mat Sci Japan 44(502) 905-910 (Jul 1995), 1A561
Finite element analysis of Saint-Venant end effects in micropolar elastic solids, Eng Comput 12(6) 571-587 (Sep 1995), 1A562
S-glass-Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation, Composites Sci Tech 54(2) 211-221 (1995), 1A563
Engineering Mechanics of Fibre Reinforced Polymers and Composite Structures (Springer-Verlag, Wien, 1994) 2N27
Dilute estimates of inelastic deformation in metal-matrix composites, Comput Struct 57(5) 773-781 (Dec 1995), 2A433
Effects of non-periodic microstructure on the elastic properties of 2D cellular solids, Int J Mech Sci 37(11) 1161-1177 (Nov 1995), 2A434
Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, Mat Struct 28(182) 450-458 (Oct 1995), 3A487
Modeling of the mechanical behavior of a 2D SiC-SiC composite at a meso-scale, Composites Sci Tech 54(4) 371-378 (1995), 3A505
Residual stresses in microcomposites and macrocomposites, J Adhesion 52(1-4) 131-148 (1995), 3A506
Simulating the microbond technique with macrodroplets, Composites Sci Tech 54(4) 423-430 (1995), 3A507
Unified energy approach to a class of micromechanics models for composite materials, Acta Mech Sinica 11(1) 59-75 (1995), 3A508
Micromechanics modeling of microcrack toughening in ceramic materials, Trans Can Soc Mech Eng 19(3) 317-329 (1995), 3A712
Properties of paste-rock interfaces and their influence on composite behavior, Mat Struct 28(183) 497-506 (Nov 1995), 4A480
Nonlinear analysis of woven fabric composite materials by homogenization method considering microscopic fracture (Japanese), J Soc Mat Sci Japan 44(505) 1231-1237 (Oct 1995), 4A502
Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, Eur J Mech A 14(6) 939-960 (1995), 4A512
Microstructure and phase transitions in solids, Meccanica 30(5) 433-663 (Oct 1995), 4T513
Computer-aided multiscale modeling tools for composite materials and structures, Comput Syst Eng 6(3) 213-223 (Jun 1995), 4A531
Damaged evolution model for strain fatigue of ductile metals, Eng Fracture Mech 52(6) 971-975 (Dec 1995), 4A755
Rheological behavior of fresh concrete under different stresses (French), Mat Struct 28(183) 545-549 (Nov 1995), 4A767
Analytical expressions for the relaxation moduli of linear viscoelastic composites with periodic microstructure, J Appl Mech 62(3) 786-793 (Sep 1995), 5A476
Microdynamics of composite plates, Arch Appl Mech 66(1-2) 126-133 (Dec 1995), 5A477
Modeling of the micromechanical behavior of unidirectional fiber-reinforced ceramics by the

example of SiC-SiC, Arch Appl Mech 66(1-2) 34-44 (Dec 1995), 5A478
Micromechanical modeling of matrix degradation in randomly oriented discontinuous-fiber composites, Composites Sci Tech 55(2) 171-186 (1995), 5A651
Matrix creep accommodation in diffusion controlled phase transformations, Acta Mat 44(2) 763-773 (Feb 1996), 6A390
Microstructural effects in elastic composites, Int J Solids Struct 33(7) 1023-1051 (Mar 1996), 6A437
Notes on the modeling of preform compaction - I: Micromechanics at the fiber bundle level, J Reinforced Plastics Composites 15(1) 86-122 (Jan 1996), 7A573
Fractal aggregates with fullerene-like monomers. Chaos Solitons Fractals 7(1) 25-30 (Jan 1996), 8A462
Micro-stress distribution within polycrystalline aggregate, Acta Mech 114(1-4) 203-216 (1996), 8A463
Response of SiC-Ti under combined loading - Part III: Microstructural evaluation, J Composite Mat 30(1) 84-108 (1996), 8A658
Homogenization-based method for predicting thermal expansion coefficients of composite materials (Chinese), J Dalian Univ Tech 35(4) 451-457 (Aug 1995), 8A1234
Effects of microstructure on the macroscopic elasto-plastic properties of metal matrix composites, Acta Mech Solida Sinica 9(1) 52-58 (1996), 9A547
Interfaces in composite materials, Acta Phys Polonica A 89(2) 209-218 (Feb 1996), 9A548
Micromechanical model for the fiber bridging of macro-cracks in composite plates, J Appl Mech 63(1) 225-233 (Mar 1996), 9A549
Prediction of composite properties from a representative volume element, Composites Sci Tech 56(2) 171-179 (1996), 9A550
Reduction in interlaminar shear strength by discrete and distributed voids, Composites Sci Tech 56(1) 93-101 (1996), 9A824
Constitutive model for thermomechanical response of decomposing composites under high heating rates, Mech Mat 22(3) 189-201 (Mar 1996), 10A566
Generalized self-consistent model for composites with functionally graded and multilayered interphases: Transfer matrix approach, Mech Mat 22(3) 219-247 (Mar 1996), 10A567
Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, Arch Mech 48(2) 245-264 (1996), 10A578
Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, Arch Mech 48(2) 265-280 (1996), 10A579
Rate-sensitive micromechanical damage model for brittle solid, J Eng Mech 122(5) 412-422 (May 1996), 10A581
Analytical and experimental mechanics of woven fabric composites, Mech Composite Mat Struct 3(2) 133-152 (Jun 1996), 11A464
Interfacial debonding in laminated titanium matrix composites, Mech Mat 22(4) 279-290 (Apr 1996), 11A488
Developments of new technology in rock mechanics, from micro to macro - III: Applications to mechanical problems of rocks and rocks mass-micromechanics and homogenization method, J Soc Mat Sci Japan 45(4) 465-471 (Apr 1996), 11T575
Growth-of-waviness in fiber-reinforced polymer composites: Viscoelastic bifurcation and imperfection sensitivity, J Appl Mech 63(2) 460-466 (Jun 1996), 12A544
Quantitative estimation of material properties of porous ceramics by means of composite micromechanics and ultrasonic velocity, NDT&E Int 29(2) 95-101 (Apr 1996), 12A562
Micromechanical analysis to predict the cord-rubber composite properties, Composite Struct 34(4) 361-369 (1996), 12A575

256L. Macroscopic characterization

Algorithm for computing the effective linear elastic properties of heterogeneous materials: 3D results for composites with equal phase Poisson ratios, J Mech Phys Solids 43(9) 1349-1362 (Sep 1995), 1A564
Mass and volume fraction properties of pultruded glass fiber-reinforced composites, Composites 26(10) 725-731 (Oct 1995), 1A565
Micro-mechanics parameters controlling the strength of braided composites, Composites Sci Tech 54(2) 177-184 (1995), 1A566
Simple re-derivation of logarithmic disordering of a dynamic planar crack due to small random heterogeneities, J Mech Phys Solids 43(9) 1363-1368 (Sep 1995), 1A590
Structure and fracture behavior of t-ZrO_2/Al_2O_3 lamellar composites, Fatigue Fracture Eng Mat Struct 18(7-8) 897-904 (Aug 1995), 1A822
Strength of metal-matrix composite joints, Acta Metall Mat 43(9) 3361-3373 (Sep 1995), 1A952
Changes in the physically mechanical properties of polymeric fibrous composites affected by moisture and low temperatures (Russian), Mech of Composite Mat T31(4) 501-508 (Aug 1995), 2A435
Effect of mineral fillers on properties of composite matrix materials, Mech of Composite Mat T31(4) 435-445 (Aug 1995), 2A436
Influence of thermal and microwave processing on the mechanical and interfacial properties of a glass-epoxy composite, Composites 26(11) 767-773 (Nov 1995), 2A437
Literature review: Effects of hydrostatic pressure on the mechanical behavior of composite materials, J Thermoplastic Composite Mat 8(4) 375-409 (Oct 1995), 2A438
Nonlinear dielectric composites, Smart Mat Struct 4(3) 215-222 (Sep 1995), 2A439
Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, JSME Int J Ser A 38(4) 601-609 (Oct 1995), 3A13
Effective moduli of unidirectional fiber composites containing radial cracking and interfacial debonding, Int J Damage Mech 4(4) 380-401 (Oct 1995), 4A514
Elastic constants for a two phase isotropic composite, J Reinforced Plastics Composites 14(11) 1144-1149 (Nov 1995), 4A515
Mechanical characterization of extended-chain polyethylene fiber-reinforced composites, J Composite Mat 29(16) 2092-2107 (1995), 4A516
Mechanical properties of the composite beam using the permanent form reinforced with CFRP and its application to the pier (Japanese), Proc JSCE 522(VI-28) 119-131 (Sep 1995), 4T517
Modeling of thermoelectric heat transfer in shape memory alloy actuators: Transient and multiple cycle solutions, Int J Eng Sci 33(15) 2345-2364 (Dec 1995), 4A518
Morphological and flexural properties of lightweight gypsum based fiber reinforced composites, J Ferrocement 25(4) 313-330 (Oct 1995), 4A519
Nonlinear viscoelastic-viscoplastic behavior of IM7/5260 composites subjected to cyclic loading, J Composite Mat 29(15) 2025-2046 (1995), 4A520
Poisson's ratio and the interfacial behavior of composite materials, Composites 26(12) 887-889 (Dec 1995), 4A521
Moment-curvature relations for ferrocement beams, J Ferrocement 25(4) 347-359 (Oct 1995), 4A539
Mechanical response of semi-brittle ceramics subjected to tension-compression state - Part II: Description of deformation process, Int J Damage Mech 4(4) 293-318 (Oct 1995), 4A743
Functional series and Hashin-Shtrikman type bounds on the effective conductivity of random media, European J Appl Math 6(6) 611-629 (Dec 1995), 5A462
Correspondence relations between the effective thermoelastic properties of composites reinforced by spherically anisotropic particles, Int J Eng Sci 34(1) 1-8 (Jan 1996), 5A479
Fiber contribution of modal damping of polymer matrix composite panels, J Spacecraft Rockets 32(5) 825-831 (Oct 1995), 5A480
Experimental determination of damage parameters in uniaxially-loaded metal-matrix composites using the overall approach, Int J Plasticity 11(8) 895-926 (1995), 5A642
Mechanical properties and water diffusion in polyester polymer concrete, J Eng Mech 121(12) 1359-1365 (Dec 1995), 6A417
Creep analysis of continuous grillage composite girders (Japanese), Proc JSCE 526(II) 11-20 (Nov 1995), 6A438
Inclination angle effect of carbon fibers in cementitious composites, J Eng Mech 121(12) 1340-1348 (Dec 1995), 6A439
Properties of composite laminates reinforced with E-glass multiaxial non-crimp fabrics, J Composite Mat 29(17) 2317-2333 (1995), 6A440
Crack-bridging force in random ductile fiber brittle matrix composites, J Eng Mech 121(12) 1315-1324 (Dec 1995), 6A657
Description of the mechanical relaxation of highly oriented polymers based on their relaxation spectra (Russian), Mech of Composite Mat T31(5) 584-590 (Oct 1995), 7A520
Ultimate stresses in spatially reinforced composites of different structural geometry and component elastic properties (Russian), Mech of Composite Mat T31(5) 616-639 (Oct 1995), 7A574
Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, Mat Eval 54(2) 314-322 (Feb 1996), 7A888
Express method for determination of polymer composite porosity (Russian), Mech of Composite Mat T31(6) 824-827 (Dec 1995), 8A464
Variational bounds for the overall properties of piezoelectric composites, J Mech Phys Solids 44(4) 583-602 (Apr 1996), 8A465
Influence of cooling conditions on the mechanical properties commingled yarn composites, J Thermoplastic Composite Mat 9(1) 76-89 (Jan 1996), 8A649
Stiffness loss in laminates with intralaminar cracks - Part I: 2D modeling, Arch Mech 48(1) 143-161 (1996), 9A544
Stiffness loss in laminates with intralaminar cracks - Part II: Periodic distribution of cracks and homogenization, Arch Mech 48(1) 163-190 (1996), 9A545
Time-dependent response of IM7-5260 composites subjected to cyclic thermo-mechanical loading, Composites Sci Tech 56(1) 55-62 (1996), 9A551
Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, Arch Mech 48(2) 245-264 (1996), 10A578
Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, Arch Mech 48(2) 265-280 (1996), 10A579
Determination of temperature variable properties of composite materials: Methodology and experimental results, J Reinforced Plastics Composites 15(5) 479-496 (May 1996), 10A582
Effect of carbonization heating rate, microstructure, and layup on the interlaminar tensile properties of a 2D carbon-carbon composite, J Eng Mat Tech 118(2) 241-246 (Apr 1996), 10A583
Elastic response of flexible polyurethane foams in uniaxial tension, J Eng Mat Tech 118(2) 157-161 (Apr 1996), 10A584
Environmental effects on stitched RTM textile composites, J Reinforced Plastics Composites 15(4) 378-419 (Apr 1996), 10A585
Micromechanical modeling of SCS-6 fiber reinforced Ti-6Al-4V under transverse tension: Effect of fiber coating, J Composite Mat 30(5) 561-588 (1996), 10A586
Rigidities of 1D laminates of composite materials, J Eng Mech 122(4) 371-374 (Apr 1996), 10A587
Study of kerf characteristics in abrasive waterjet machining of graphite-epoxy composite, J Eng Mat Tech 118(2) 256-265 (Apr 1996), 10A714
Overall properties of elastic-viscoplastic periodic composites, Int J Plasticity 12(2) 163-190 (1996), 11A458
Surface characterization and adhesive bonding of toughened bismaleimide composites, Composites Part A Appl Sci and Manuf 27A(6) 419-428 (1996), 11A489
Strength and damage mechanisms of notched 2D triaxial braided textile composites and tape equivalents under tension, J Composite Tech Res 18(1) 38-46 (Jan 1996), 11A686
Special Issue: In honor of Dr KW Allen on the occasion of his 70th birthday, Int J Adhesion Adhesives 16(2) 61-135 (1996), 11A848
Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian) (Naukova Dumka, Kiev, 1995) 12R16
Exact second-order estimates for the effective mechanical properties of nonlinear composite materials, J Mech Phys Solids 44(6) 827-862 (Jun 1996), 12A530
Anisotropic shear modulus of wood-based composite (Japanese), J Soc Mat Sci Japan 45(5) 566-571 (May 1996), 12T531
Effective elastic properties of 3D carbon-carbon composites at high temperature, Adv Composites Letters 5(2) 49-52 (1996), 12A563
Flexural properties of stitched GRP laminates, Composites Part A Appl Sci and Manuf 27A(7) 525-530 (1996), 12A564
Longitudinal and transverse moduli and strengths of low angle 3D braided composites, J Composite Mat 30(8) 885-905 (1996), 12A565
Mechanical properties of flexible knitted composites, Adv Composites Letters 5(1) 9-13 (1996), 12A566
Phase-interchange relations for the elastic moduli of two-phase composites, Int J Eng Sci 34(7) 739-760 (May 1996), 12A567
Technique for generating stress-strain curves from flexural data, J Composite Mat 30(9) 966-983 (1996), 12A568
Influence of void shape, void volume, and matrix anisotropy on effective thermal conductivity of a three-phase composite, J Composite Mat 30(8) 933-946 (1996), 12A1241

256N. Dynamic behavior

Dynamic stiffness analysis of laminated beams using a first order shear deformation theory, Composite Struct 31(4) 265-271 (1995), 1A130
Design of multispan composite plates to maximize the fundamental natural frequency, Composites 26(10) 691-697 (Oct 1995), 1A162
Influence of constrained damping layer on the resonant response of orthotropic cylindrical shells, J Sound Vib 185(3) 483-500 (Aug 1995), 1A164
Modeling deformation and damage characteristics of woven fabric under small projectile impact, Int J Impact Eng 16(4) 585-605 (Aug 1995), 1A218
Woven glass-epoxy laminates subject to projectile impact, Int J Impact Eng 16(4) 607-619 (Aug 1995), 1A219
Asymptotic simulation of thin asymmetric laminates: Boundary problems and solution methods (Russian), Mech of Composite Mat T31(3) 319-325 (Jun 1995), 1A567
Dynamic shear resistance of ceramic composites and its dependence on applied multiaxial deformation, Int J Solids Struct 32(21) 3105-3128 (Nov 1995), 1A568
Effect of delaminations in graphite-PEEK composite plates on modal dynamic characteristics, Composite Struct 31(3) 195-202 (1995), 1A569
Exact method for analyzing elastodynamic response of anisotropic laminates to line loads, Mech Composite Mat Struct 2(3) 227-241 (Sep 1995), 1A570
Mixed state Hamiltonian dynamic element and a semi-analytical solution for the analysis of thick laminated composite plates, Acta Mech Solida Sinica 8(2) 154-162 (1995), 1A571
Transient stresses generated by low velocity impact on orthotropic laminated cylindrical shells, Composite Struct 31(3) 213-228 (1995), 1A572
Quasi-static modeling of delamination crack propagation in laminates subjected to low-velocity impact, Composites Sci Tech 54(2) 185-191 (1995), 1A820
Control of the natural frequencies of NITINOL-reinforced composite beams, J Sound Vib 185(1) 171-185 (Aug 1995), 1A882
Vibrations of arbitrarily laminated fiber reinforced composite material truncated conical shell, J Reinforced Plastics Composites 14(9) 923-948 (Sep 1995), 2A114
Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, J Mech Phys Solids 43(10) 1673-1690 (Oct 1995), 2A158
Composite materials which exhibit high stiffness and high viscoelastic damping, J Composite Mat 29(14) 1823-1833 (1995), 2A440
Energy absorption characteristics of knitted fabric reinforced epoxy composite tubes, J Reinforced Plastics Composites 14(10) 1121-1140 (Oct 1995), 2A441
Study of dynamic and mechanical behavior of SiCp/Al composite under tensile impact, Appl Composite Mat 2(1) 43-50 (1995), 2A442
Damage mechanisms in composite laminates impacted by a flat-ended impactor, Composites Sci Tech 54(3) 267-273 (1995), 2A644
Finite-element prediction of modal response of damped layered composite panels, Composites Sci Tech 55(1) 13-23 (1995), 3A141
Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), J Vib Eng 8(2) 91-98 (Jun 1995), 3A143
Low-speed impact damage-initation characteristics of selected laminated composite plates, AIAA J 33(10) 1919-1925 (Oct 1995), 3A196
Theoretical and experimental investigation of dynamic delamination in composites, Fatigue Fracture Eng Mat Struct 18(10) 1133-1154 (Oct 1995), 3A509
Tensile impact delamination of a cross-ply interface studied by moire photography, Fatigue Fracture Eng Mat Struct 18(10) 1101-1114 (Oct 1995), 3A702
Dynamic effect of laminated beam subjected to transverse impact (Chinese), J Vib Eng 8(3) 253-257 (Sep 1995), 4A151
Single-layer plate theories applied to the flexural vibration of completely free thick laminates, J Sound Vib 186(5) 743-759 (Oct 1995), 4A193
Nonlinear frequency and large amplitude of sandwich composites with embedded shape memory alloy, J Reinforced Plastics Composites 14(11) 1160-1174 (Nov 1995), 4A194
Uniaxial tensile respone of microfiber reinforced cement composites, Mat Struct 28(183) 507-517 (31v 1995), 4A489
Approximate elastic-plastic analysis of the static and impact beaviour of polymer composite sandwich beams, Composites 26(12) 803-814 (Dec 1995), 4A522
Inelastic energy curves: A tool for evaluating the impact response of composite plates, J Reinforced Plastics Composites 14(11) 1175-1198 (Nov 1995), 4A523
Low velocity impact fatigue studies on glass epoxy composite laminates with varied material and test parameters: Effect of incident energy and fiber volume fraction, J Reinforced Plastics Composites 14(11) 1150-1159 (Nov 1995), 4A524
Nonlinear impact analysis of laminated cylindrical and doubly curved shells, J Composite Mat 29(16) 2160-2179 (1995), 4A525
Free vibration of generally layered composite beams using symbolic computations, Composite Struct 33(3) 123-134 (1995), 5A120
Transverse vibrations of a cantilever composite cylindrical shell with ring-shaped stiffening ribs, Mech Solids 30(2) 132-139 (1995), 5A138
Compressive stress-strain relations and shock Hugoniot curves of flexible foams, J Eng Mat Tech 117(3) 278-284 (Jul 1995), 5A444
Vibrations of composite noncircular cylindrical shells, J Vib Acoust 117(4) 470-476 (Oct 1995), 5A481
Forced vibration of antisymmetric angle-ply laminated plates with various boundary conditions, J Sound Vib 188(2) 257-267 (Nov 1995), 6A132
Three-dimensional vibration of laminated composite plates and cylindrical panels with arbitrarily located lateral surfaces point supports, Int J Mech Sci 38(3) 271-281 (Mar 1996), 6A139
Dynamic behavior of the interface between two solid phases in an elastic bar, J Elast 41(1) 39-72 (Oct 1995), 6A441

Effect of processing on the underwater explosion shock behavior of GRP laminates, J Composite Mat 29(18) 2488-2503 (1995), 6A442
Effect of underwater explosion shock loading on the flexural properties of GRP laminates, Int J Impact Eng 18(2) 129-139 (Mar 1996), 6A443
Prediction of the residual strength of laminated composites subjected to impact loading, J Mat Processing Tech 54(1-4) 205-210 (Oct 1995), 6A444
Dynamic Response and Behavior of Composites, AD-Vol 46 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 7N15
High Strain Rate Effects on Polymer, Metal and Ceramic Matrix Composites, and Other Advanced Materials, AD-Vol 48 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 7N16
Analysis of free damped vibrations of laminated composite cylindrical shells, Mech of Composite Mat T31(5) 646-659 (Oct 1995), 7A170
Wave triplets in two-phase composites, Mech of Composite Mat T31(5) 660-670 (Oct 1995), 7A239
Impact loading on fiber metal laminates, Int J Impact Eng 18(3) 291-307 (Apr 1996), 7A261
Automated manufacture of prepreg broadgoods components: A review of literature, Composites Part A Appl Sci and Manuf 27A(3) 211-217 (1996), 7A575
Empirical strain rate-dependent constitutive relationship for glass-fiber reinforced epoxy and pure epoxy, Composite Struct 33(4) 201-210 (1995), 7A576
Nonlinear dynamics of nonelastic destruction of damaged lamellar systems (Russian), Mech of Composite Mat T31(5) 640-645 (Oct 1995), 7A577
Simple model to predict residual velocities of thick composite laminates subjected to high-velocity impact, Int J Impact Eng 18(3) 339-353 (Apr 1996), 7A578
Static and dynamic axial collapse of fiberglass composite automotive frame rails, Composite Struct 34(1) 77-90 (1996), 7A579
Thermal shocks in composite plates: A coupled thermoelastic FE analysis, Composite Struct 34(1) 1-12 (1996), 7A584
Large deflection dynamic response of composite laminated plates under in-plane loads, Composite Struct 33(4) 237-252 (1995), 7A610
Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, Composites Sci Tech 55(4) 349-363 (1995), 7A831
Dynamic compressive strength of epoxy based composites (Russian), Mech of Composite Mat T31(6) 776-782 (Dec 1995), 8A466
Characterization of low-energy impact damages in composites, J Reinforced Plastics Composites 15(3) 267-282 (Mar 1996), 9A286
Supersonic flutter analysis of thermally stressed laminated composite flat panels, Composite Struct 34(2) 241-248 (1996), 9A323
Superplasticity and cavitation in light metal matrix composites (Japanese), J Soc Mat Sci Japan 45(2) 149-156 (Feb 1996), 9T535
Dynamic singular solution of orthotropic layered elastic half-plane and its application, J Comput Struct Mech Appl 12(2) 231-238 (May 1995), 9A539
Constitutive equation for unidirectional composites under tensile impact, Composites Sci Tech 56(2) 155-160 (1996), 9A552
Dynamics of yarn in the process of its formation on the ring-spinning machine, Fibres Textiles in E Europe 3(3) 36-38 (Aug 1995), 9T553
Refined dynamic equations for multilayer shells with transversely soft fillers, Mech Solids 30(5) 136-145 (1995), 10A187
Green's function synthesis for sandwiched distributed parameter systems, J Sound Vib 191(5) 613-627 (Apr 1996), 10A195
Dynamic mechanical analysis of pultruded glass-graphite-epoxy hybrid composites at elevated temperatures, J Reinforced Plastics Composites 15(5) 497-532 (May 1996), 10A588
Analysis of natural frequencies of delaminated composite beams based on FEM, Struct Eng and Mech 4(3) 243-255 (May 1996), 11A6
Dynamic crush tests of energy-absorbing laminated composite plates, Composites Part A Appl Sci and Manuf 27A(6) 467-475 (1996), 11A490
Mechanisms and quantification of spalling failure in laminated composites under shock loading, J Composite Mat 30(6) 722-747 (1996), 11A684
Thermoelastic excitation of multi-directional fibrous composite cylinders, J Sound Vib 192(4) 807-820 (May 1996), 11A1245
Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, Finite Elements Anal Des 22(2) 143-161 (Jun 1996), 12A179
Dynamic and static torsional characterization of pultruded hybrid cylindrical composite rods, J Composite Mat 30(8) 918-931 (1996), 12A569
Damage modes in impact loading of glass woven fabric composites, Adv Composites Letters 5(2) 59-63 (1996), 12A752

256Q. Structural applications

Thermal-vacuum response of polymer matrix composites in space, J Spacecraft Rockets 32(4) 703-709 (Aug 1995), 1A573
Response of thick composite rings under uniform external pressure, Composite Struct 31(4) 325-338 (1995), 1A599
Engineering Mechanics of Fibre Reinforced Polymers and Composite Structures (Springer-Verlag, Wien, 1994) 2N27
Optimal design and sensitivity analysis of flexible robotic manipulators fabricated from advanced composite materials, J Thermoplastic Composite Mat 8(4) 346-364 (Oct 1995), 2A323
Airworthiness of composite repairs: Failure mechanisms, Eng Failure Anal 2(2) 117-128 (Jun 1995), 2A443
Fourier solution to higher order theory based laminated shell boundary-value problem, AIAA J 33(9) 1681-1688 (Sep 1995), 2A444
Probabilistic imperfection sensitivity analysis of axially compressed composite cylinders, Eng Struct 17(6) 398-406 (Jul 1995), 2A445
Structural modeling for optimization of low aspect ratio composite wings, J Aircraft 32(5) 1114-1123 (Oct 1995), 2A1022
Modeling drying shrinkage of cement paste and mortar - Part 1: Structural models from nanometers to millimeters, Mat Struct 28(182) 450-458 (Oct 1995), 3A487
Thermal expansion of concretes: Case study in Iowa, J Mat in Civil Eng 7(4) 246-251 (Nov 1995), 3A491
Stress-strain state of a three-layered cantilever panel with honeycomb filler, Mech Solids 30(1) 149-156 (1995), 3A502
Bolted connections for fiber-reinforced composite structural members: Experimental program, J Mat in Civil Eng 7(4) 223-231 (Nov 1995), 3A510
Bolted connections for fiber-reinforced composite structural members: Analytical model and design recommendations, J Mat in Civil Eng 7(4) 232-238 (Nov 1995), 3A511
Boron-aluminium shells under hydrostatic pressure, Composites Sci Tech 55(1) 25-32 (1995), 3A512
Compression creep of pultruded E-glass-reinforced-plastic angles, J Mat in Civil Eng 7(4) 269-276 (Nov 1995), 3A513
Use of composites for rehabilitation of steel structures - Determination of bond durability, J Mat in Civil Eng 7(4) 239-245 (Nov 1995), 3A514
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, Composite Struct 33(2) 109-119 (1995), 4A11
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Cheese-head bolts, Composite Struct 33(2) 95-108 (1995), 4A488
Improved method for testing unidirectional FRP composites in tension, Composite Struct 33(1) 27-34 (1995), 4A497
Quasi-empirical approach to shear strength of ferrocement trough section elements, J Ferrocement 25(4) 361-376 (Oct 1995), 4A526
Skin-stiffener interface stresses in tapered composite panel, Composite Struct 33(1) 1-6 (1995), 4A527
Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, Composite Struct 33(1) 7-15 (1995), 4A574
Fabrication of T-shaped structural composite through resin transfer molding, J Composite Mat 29(16) 2192-2214 (1995), 4A650
Fatigue behavior of mechanically fastened joints in composite materials, Composite Struct 33(2) 87-94 (1995), 4A766
Strengthening of reinforced concrete beams with composite materials: Theoretical study, Composite Struct 33(2) 63-75 (1995), 4A804
Design and analysis of fiber enhanced viscoelastic damping polymers, J Vib Acoust 117(4) 398-404 (Oct 1995), 5A163
Nonlinear progressive failure analysis of laminated composite plates, Int J Non-Linear Mech 30(5) 629-649 (Sep 1995), 5A482
Prediction of high temperature metal matrix structural material failure using a massively parallel computer, Comput Syst Eng 6(6) 577-586 (Dec 1995), 5A483
Stress-strain and failure analyses of composite pipe under torsion, J Pressure Vessel Tech 117(3) 273-278 (Aug 1995), 5A484
Postbuckling analysis of imperfect composite laminated plates on nonlinear elastic foundations, Int J Non-Linear Mech 30(5) 651-659 (Sep 1995), 5A534
Application of SPSLIFE to preliminary design evaluation and life assessment of CSGT components, J Eng Gas Turbines Power 117(3) 424-431 (Jul 1995), 5A633
D-box fixture for testing stiffened panels in compression and pressure, J Aircraft 32(6) 1382-1389 (Dec 1995), 5A735
Nonlinear analysis of graphite-epoxy wing boxes under pure bending including lateral pressure, J Aircraft 32(6) 1375-1381 (Dec 1995), 5A994
Design criteria for pseudoductile fiber-reinforced composites, J Eng Mech 122(1) 10-18 (Jan 1996), 6A445
Effect of pitch distance, row spacing, end distance and bolt diameter on multi-fastened composite joints, Composites Part A Appl Sci and Manuf 27A(2) 105-110 (1996), 6A446
Examination of key aspects defining the performance characteristics of out-of-plane joints in FRP marine structures, Composites Part A Appl Sci and Manuf 27A(2) 89-103 (1996), 6A447
Certification of the composite outer wing of the ATR72, Proc Inst Mech Eng J Aerospace Eng 209(G4) 327-339 (1995), 6A1012
Influence of a tension load on laminates under torsion, J Am Helicopter Soc 40(4) 71-78 (Oct 1995), 6A1038
Ballistic impact response for two-step braided 3D textile composites, AIAA J 34(2) 375-384 (Feb 1996), 7A251
Static and dynamic axial collapse of fiberglass composite automotive frame rails, Composite Struct 34(1) 77-90 (1996), 7A579
Application of photogrammetry in the study of the effects of sailboard fin flexibility, Proc Inst Mech Eng C 209(C6) 373-381 (1995), 7A580
Nonideal contact in the composite shell construction with deformable filler (Russian), Prikl Mekh (Appl Mech) 31(5) 25-29 (1995), 7A581
Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, Composite Struct 34(1) 91-100 (1996), 7A582
Study of dynamic characteristics of structural elements of composite materials of complex structural and shape (Russian), Prikl Mekh (Appl Mech) 31(5) 35-41 (1995), 7A583
Thermal shocks in composite plates: A coupled thermoelastic FE analysis, Composite Struct 34(1) 1-12 (1996), 7A584
Mathematical simulation and FE analysis of the strength reliability of ceramic structures, J Machinery Manuf Reliab 4 41-43 (1995), 7T585
Large deflection dynamic response of composite laminated plates under in-plane loads, Composite Struct 33(4) 237-252 (1995), 7A610
Neural networks with modified backpropagation learning applied to structural optimization, AIAA J 34(2) 408-412 (Feb 1996), 7A905
Optimization of laminated composite structures using a bilevel strategy, Composite Struct 33(4) 193-200 (1995), 7A908
Planar-tensile representation of edge debonding in patch panels under pressure, Int J Adhesion Adhesives 15(4) 211-217 (Oct 1995), 7A1038
Evaluation of potentialities of composites application in ship shaftlines (Russia), Mech of Composite Mat T31(6) 797-807 (Dec 1995), 8A467
Experimental and numerical study of composite T-joints, J Composite Mat 30(2) 190-209 (1996), 8A468
Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, Struct Eng and Mech 3(2) 121-133 (Mar 1995), 8A485
Analysis of an internally pressurized orthogonally stiffened cylindrical shell with an asymmetrical section ring, Mech Composite Mat Struct 3(1) 29-64 (Mar 1996), 8A496
4th International Conference on Automated Composites, Nottingham UK, Sept 6-7, 1995, Composites Part A Appl Sci and Manuf 27A(4) 247-336 (1996), 8A557
Failure analysis of bolted composite joints exhibiting in-plane failure modes, J Composite Mat 30(3) 358-383 (1996), 8A648
Shape optimization of interior cutouts in composite panels, Struct Optim 11(1-2) 43-49 (Feb 1996), 8A725
Overview of recycling issues for composite materials, J Thermoplastic Composite Mat 9(1) 4-20 (Jan 1996), 8A1407
Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, J Intelligent Mat Syst Struct 7(1) 25-32 (Jan 1996), 9A195
Supersonic flutter analysis of thermally stressed laminated composite flat panels, Composite Struct 34(2) 241-248 (1996), 9A323
Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate, Int J Solids Struct 33(15) 2243-2259 (Jun 1996), 9A546
Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), J Soc Mat Sci Japan 45(2) 163-168 (Feb 1996), 9A554
Prediction of overall average mechanical properties for multi-phase composites with imperfect interphase (Chinese), J Comput Struct Mech Appl 12(1) 39-46 (Feb 1995), 9A555
Analysis of deflection to laminated plate using beam eigenfunction (Chinese), J Comput Struct Mech Appl 13(1) 55-61 (Feb 1996), 9T589
Boundary value problems of moderately thick shallow cylindrical panels with arbitrary laminations, Composite Struct 34(2) 169-184 (1996), 9A592
Efficient higher-order shell theory for laminated composites, Composite Struct 34(2) 197-212 (1996), 9A594
Coupled micro to macro analysis of a composite that hosts embedded piezoelectric actuators, J Intelligent Mat Syst Struct 7(1) 15-24 (Jan 1996), 9A648
Structural Design of Polymer Composites - Eurocomp Design Code and Handbook (E&FN Spon, Andover, Hants, UK, 1995) 10N25
Proposed specification and commentary for composite joists and composite trusses, J Struct Eng 122(4) 350-358 (Apr 1996), 10A589
Warping solution for shear lag in thin-walled orthotropic composite beams, J Eng Mech 122(5) 449-457 (May 1996), 10A590
Algebraic methods for creep analysis of continuous composite beams, J Struct Eng 122(4) 423-430 (Apr 1996), 10A750
Maximizing the fundamental natural frequency of triangular composite plates, J Vib Acoust 118(2) 141-146 (Apr 1996), 10A879
Durability Analysis of Structural Composite Systems: Reliability, Risk Analysis, and Prediction of Safe Residual Integrity (Balkema, Rotterdam, Netherlands, 1996) 11N27
Nonlinear FE analysis of composite frames, Proc Inst Civil Eng Struct Build 116(2) 244-247 (May 1996), 11A13
Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, Struct Eng and Mech 4(3) 257-276 (May 1996), 11A14
Exact elasticity solution for buckling of composite laminates, Composite Struct 34(2) 291-299 (1996), 11A429
Strength and stiffness of fiber-reinforced plastic plates, Proc Inst Civil Eng Struct Build 116(2) 204-220 (May 1996), 11A518
Damage tolerance predictions for stiffened composite panels - Part II: Application of a failure criteria, J Composite Tech Res 18(2) 102-108 (Apr 1996), 11A675
Damage tolerance predictions for stiffened composite panels - Part I: Strain field predictions, J Composite Tech Res 18(1) 47-56 (Jan 1996), 11A676
Design of shear-deformable laminated shells for maximum buckling load under combined loading, Mech Composite Mat Struct 3(2) 119-132 (Jun 1996), 11A729
Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), Proc JSCE 537(1-35) 97-106 (Apr 1996), 11A752
Simplified estimation procedure of degree of imperfection for composite girder with partial interaction (Japanese), Proc JSCE 537(1-35) 89-96 (Apr 1996), 11A762
Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian) (Naukova Dumka, Kiev, 1995) 12R16
Analysis of composite laminates with transverse cracks, Composite Struct 34(4) 419-426 (1996), 12A557
Ballistic impact of fiber composite armours by fragment-simulating projectiles, Composites Part A Appl Sci and Manuf 27A(7) 575-581 (1996), 12A570
Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, Composite Struct 34(4) 437-444 (1996), 12A571
Composite design methodology: Design of composite trails for the US Army's M198 Howitzer: A case study, J Mech Des 118(2) 286-293 (Jun 1996), 12A572
Scale models for laminated cylindrical shells subjected to axial compression, Composite Struct 34(4) 371-379 (1996), 12A596
Buckling of advanced composite prestressed units under inplane loading, Composites Part A Appl Sci and Manuf 27A(7) 531-545 (1996), 12A627

256T. Ceramics, refractories, glasses

Dynamic shear resistance of ceramic composites and its dependence on applied multiaxial deformation, Int J Solids Struct 32(21) 3105-3128 (Nov 1995), 1A568
Ceramic tribology in Japan, Trib Int 28(1) 1-6 (Feb 1995), 1A574
Pre-stressing a Tonpilz transducer, J Acoust Soc Am 98(2) 1225-1227 (Aug 1995), 1A575
Toughening of ceramics by short aligned fibers, Mech Mat 21(2) 139-146 (Aug 1995), 1A576
Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, J Mech Phys Solids 43(10) 1551-1585 (Oct 1995), 2A424
Dynamic failure mechanisms of ceramic bars: Experiments and numerical simulations, J Mech Phys Solids 43(10) 1615-1638 (Oct 1995), 2A446

Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix, J Mech Phys Solids 43(10) 1639-1671 (Oct 1995), 2A447

Use of composites for rehabilitation of steel structures - Determination of bond durability, J Mat in Civil Eng 7(4) 239-245 (Nov 1995), 3A514

Effect of grinding on fatigue behavior of ceramics at ambient temperature, JSME Int J Ser A 38(4) 610-615 (Oct 1995), 3A628

Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), J Soc Mat Sci Japan 44(504) 1127-1132 (Sep 1995), 3A724

Dynamic matrix cracking in fiber reinforced ceramics, J Mech Phys Solids 43(12) 1875-1886 (Dec 1995), 4A491

Multiple cracks in transformation toughened ceramics, Mech Mat 21(4) 325-334 (Nov 1995), 4A702

Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), J Soc Mat Sci Japan 44(505) 1286-1290 (Oct 1995), 4A1233

Modeling of the micromechanical behavior of unidirectional fiber-reinforced ceramics by the example of SiC-SiC, Arch Appl Mech 66(1-2) 34-44 (Dec 1995), 5A478

Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, J Eng Gas Turbines Power 117(3) 417-423 (Jul 1995), 5A634

Assessment of notches in ceramic components, J Eng Gas Turbines Power 117(3) 413-416 (Jul 1995), 5A635

Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, Bio-Med Mat Eng 5(4) 233-243 (1995), 6A448

Matrix cracking and debonding of ceramic-matrix composites, Int J Solids Struct 33(8) 1209-1220 (Mar 1996), 6A449

Fracture mechanics for the design of ceramic multilayer actuators, J Mech Phys Solids 44(1) 23-48 (Jan 1996), 6A638

Microwave heating of carbon-coated ceramic fibers: A mathematical model, IMA J Appl Math 55(3) 243-255 (1995), 6A1142

Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA (Mat Res Soc, Pittsburgh PA, 1995) 7N12

Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, Prikl Mekh (Appl Mech) 31(1) 50-58 (1995), 7A235

Static and dynamic axial collapse of fiberglass composite automotive frame rails, Composite Struct 34(1) 77-90 (1996), 7A579

Mathematical simulation and FE analysis of the strength reliability of ceramic structures, J Machinery Manuf Reliab 4 41-43 (1995), 7T585

Subsurface and surface cracks under contact loading in transformation-toughened ceramics, J Mech Phys Solids 44(2) 207-231 (Feb 1996), 7A586

Ultrasonic velocity and elastic constant measurements in some borate glasses, Acoust Lett 18(11) 212-216 (May 1995), 7A587

Influence of ceramic particles on solidification of Al-SiC and Al-Al_2O_3 (Polish), Arch Naukio Mat 16(2) 163-178 (1995), 9A556

Influence of material objectivity on electroelastic dissipation in polarized ferroelectric ceramics, Math Mech Solids 1(1) 45-55 (Mar 1996), 9A646

Twinning-induced stress concentrations in polycrystalline solids, Math Mech Solids 1(1) 95-110 (Mar 1996), 9A796

Subcritical crack growth life prediction for ceramic components of advanced heat engines, J Eng Gas Turbines Power 118(2) 240-245 (Apr 1996), 10A805

Propagation mechanism of ultrasonic waves in porous ceramics, JSME Int J Ser A 39(2) 266-271 (Apr 1996), 10A863

Effect of diameter-to-thickness ratio of crystal disks on the vibrational characteristics of ultrasonic ceramic transducers, Appl Acoust 48(1) 1-13 (1996), 12A180

Localization due to damage in two-direction fiber-reinforced composites, J Appl Mech 63(2) 321-326 (Jun 1996), 12A549

Nonlinear FE analysis of glass panels, Eng Struct 18(8) 645-652 (Aug 1996), 12A573

Thermal fracture of functionally gradient ceramics, Z Angew Math Phys 47(3) 467-484 (May 1996), 12A1286

256V. Plastics, elastomers, rubbers

Stress-strain state of polymer chemical-resistant coatings during curing and under operating conditions, Composite Struct 31(4) 253-256 (1995), 1A577

Model laws for curing of thermosetting composites, J Composite Mat 29(13) 1741-1761 (1995), 2A1124

Crack tip field in a rubber sheet, Eur J Mech A 14(5) 665-677 (1995), 3A515

Finite element viscoelastic analysis of temperature and moisture effects in electronic packaging, J Electron Packaging 117(3) 192-200 (Sep 1995), 3A516

Physical aging behavior of high-performance composites, Composites Sci Tech 54(4) 405-415 (1995), 3A685

Models of the initiation of macroscopic cracks in particlate elastomeric composites, J Machinery Manuf Reliab 1 33-37 (1995), 3A700

Studies on the adhesives for rubber to rubber bonding, J Adhesion Sci Tech 9(11) 1427-1434 (1995), 3A874

Hierarchical bending analysis of cord-rubber composites, AIAA J 33(12) 2359-2363 (Dec 1995), 4A496

Shear strength of polymers and fiber composites - I: Thermoplastic and thermoset polymers, Composites 26(12) 829-840 (Dec 1995), 4A528

Shear strength of polymers and fiber composites - 2: Carbon-epoxy pultrusions, Composites 26(12) 841-848 (Dec 1995), 4A529

Study on compression transfer molding, J Composite Mat 29(16) 2180-2191 (1995), 4A651

Role of temperature in the entanglement kinetics of a polymer melt, J Appl Mech 62(3) 794-801 (Sep 1995), 5A452

Mechanics of Plastics and Plastic Composites, MD-Vol 68-AMD-Vol 215 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA (ASME Press, New York, 1995) 6N25

Technological and theoretical studies on the process of polyester yarn high-speed spinning, Fibres Textiles in E Europe 2(2) 36-37 (Jun 1994), 6A450

Recycling of composite materials, J Mat Processing Tech 55(3-4) 448-456 (Dec 1995), 7A588

Study on the polypropylene-high density polyethylene-styrene-butadiene-styrene block copolymer ternary blends - I: Composition, morphology, and properties of polypropylene/high density polyethylene-styrene-butadiene-styrene block copolymer blends, J Reinforced Plastics Composites 15(1) 74-85 (Jan 1996), 7A589

Fracture of reinforced thermoplastics, J Mat Processing Tech 55(3-4) 229-233 (Dec 1995), 7A793

Numerical modeling of hardening polymers (Russian), Mech of Composite Mat T31(6) 846-851 (Dec 1995), 8A469

Secant moduli of a glass bead-reinforced silicone rubber specimen, J Composite Mat 30(1) 69-83 (1996), 8A470

Determination of manufacturing conditions for hot-gas-aided thermoplastic tape winding, J Thermoplastic Composite Mat 9(1) 35-53 (Jan 1996), 8A558

Thermo-mechanical regulation of residual stresses in polymers and polymer composites, J Composite Mat 30(3) 406-415 (1996), 8A1237

Influence of dewetting in filled elastomers on the changes of their mechanical properties, Arch Appl Mech 66(4) 231-241 (Mar 1996), 9A502

Effect of water on thermal stresses in polymer composites, J Appl Mech 63(1) 173-179 (Mar 1996), 9A1285

Stress singularity near the notch tip of a rubber-like specimen under tension, Eur J Mech A 15(2) 199-211 (1996), 10A591

Processing characteristics in different semi-crystalline thermoplastic composites using process simulated laminate (PSL) methodology, J Thermoplastic Composite Mat 9(2) 183-198 (Apr 1996), 10A718

Consolidation and interlaminar fracture properties of unidirectional commingled CF-PEEK composites, J Thermoplastic Composite Mat 9(2) 129-150 (Apr 1996), 10A790

Shear properties of components used in stressed-skin panels, J Mat in Civil Eng 8(2) 77-82 (May 1996), 11A701

Definition of the deformed reference surface of rubber-like shells of revolution, J Appl Mech 63(2) 424-428 (Jun 1996), 12A574

Micromechanical analysis to predict the cord-rubber composite properties, Composite Struct 34(4) 361-369 (1996), 12A575

Strain energy density of compressible, rubber-like shells of revolution, J Appl Mech 63(2) 419-423 (Jun 1996), 12A576

256Y. Computational techniques

Development of 3D FEM for composite materials based on damage mechanics (Japanese), J Soc Mat Sci Japan 44(502) 921-926 (Jul 1995), 1A17

High precision thickness-stretch deformation element for the analysis of symmetrical laminates under extension, Mech Composite Mat Struct 2(3) 181-202 (Sep 1995), 1A37

Approach of the special FE for honeycore composites, Comput Struct 57(4) 681-690 (Nov 1995), 1A578

Boundary value problems for Poisson's equation in a multi-wedge and multi-layered region, Arch Mech 47(2) 295-335 (1995), 1A579

Comparison of two higher order FE models for composite materials and experimental validation, Eng Comput 12(6) 555-569 (Sep 1995), 1A580

FE model for 3D analysis of composite plates, Eng Trans 43(1-2) 225-244 (1995), 1A581

Stress intensity factor and stress distribution in a joint with an interface corner under thermal and mechanical loading, Comput Struct 57(3) 467-476 (Nov 1995), 1A582

Stress state calculation of a repair of a uni- or bi-axially loaded laminate structure, Mech of Composite Mat T31(3) 351-362 (Jun 1995), 1A583

Three-dimensional intelligent FEM for design of composite structures: Design of symmetric laminates by shell element (Japanese), J Soc Mat Sci Japan 44(502) 916-920 (Jul 1995), 1A584

Application of the biaxial Iosipescu method to mixed-mode fracture of unidirectional composites, Int J Fracture 71(2) 131-150 (1995), 1A806

Multi-criterion optimization of strengthened hybrid composite panels (Russian), Mech of Composite Mat T31(3) 370-377 (Jun 1995), 1A873

Finite element analysis of effective thermal conductivity of filled polymeric composites, J Composite Mat 29(13) 1725-1740 (1995), 2A17

Application of GPS tensors to fiber reinforced composites, J Composite Mat 29(14) 1885-1907 (1995), 2A448

Finite element approach to global-local modeling in composite laminate analysis, Comput Struct 57(6) 1035-1044 (13c 1995), 2A449

Graph representation of mechanical systems, Mech Machine Theory 30(7) 1099-1112 (Oct 1995), 2A450

Identification of parameters in polymer crystallization, Appl Numer Math 17(3) 191-211 (Jul 1995), 2A451

Analysis of laminated cylindrical shells with pre-loads, J Reinforced Plastics Composites 14(10) 1081-1107 (Oct 1995), 2A472

Prediction of the transversal strength of unidirectional composites under combined loading (Russian), Mech of Composite Mat T31(4) 473-481 (Aug 1995), 2A654

Calculation of deformative and thermal properties of multiphase composite materials filled with composite or hollow spherical inclusions by the effective medium method, Mech of Composite Mat T31(4) 462-472 (Aug 1995), 2A1156

Thermoelastic stress analysis of orthotropic composites, Exp Mech 35(3) 257-265 (Sep 1995), 2A1159

Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, Mat Struct 28(182) 450-458 (Oct 1995), 3A487

Frictional contact analysis of composite materials, Composites Sci Tech 54(4) 341-348 (1995), 3A517

Introduction of a modified linear rule of mixtures for the modeling of the yield strength of heavily wire drawn *in situ* composites, Composites Sci Tech 55(1) 57-61 (1995), 3A518

Accuracy assessment to applying 20-node solid elements to pressurized composite shells, Finite Elements Anal Des 20(4) 219-231 (Sep 1995), 4A4

Skin-stiffener interface stresses in tapered composite panel, Composite Struct 33(1) 1-6 (1995), 4A527

BEM analysis of grain boundary sliding in polycrystals, Eng Anal Boundary Elements 15(4) 349-358 (1995), 4A530

Computer-aided multiscale modeling tools for composite materials and structures, Comput Syst Eng 6(3) 213-223 (Jun 1995), 4A531

Interfacial stress estimation using least-square extrapolation and local stress smoothing in laminated composites, Comput Struct 58(4) 765-774 (Feb 1996), 4A532

Modeling the inelastic interphase in unidirectional composites, Mech Res Commun 22(6) 561-570 (Dec 1995), 4T533

Multi-grid method for periodic heterogeneous media - Part 2: Multiscale modeling and quality control in multidimensional case, Comput Methods Appl Mech Eng 126(1-2) 17-38 (Sep 1995), 4A534

Multigrid method for periodic heterogeneous media - Part 1: Convergence studies for 1D case, Comput Methods Appl Mech Eng 126(1-2) 1-16 (Sep 1995), 4A535

Use of Boundary Strip Method for evaluation of the transverse mechanical properties of fibrous composites, Appl Composite Mat 2(2) 73-91 (1995), 4A536

Computational methodology to predict damage growth in unidirectional composites - I: Theoretical formulation and numerical implementation, Eng Fracture Mech 52(5) 937-951 (Nov 1995), 4A721

Computational methodology to predict damage growth unidirectional composites - II: Case studies, Eng Fracture Mech 52(5) 953-970 (Nov 1995), 4A722

Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, Finite Elements Anal Des 21(1-2) 21-44 (Oct 1995), 5A33

Distribution of body stresses in an n-phase composite body: Prior to outside loading, J Reinforced Plastics Composites 14(12) 1307-1316 (Dec 1995), 5A485

Numerical investigation of the elastothermodynamic damping of fiber-reinforced metal-matrix composites, J Appl Mech 62(3) 816-818 (Sep 1995), 5T486

Use of FE technique for the analysis of composite structures, Comput Struct 58(5) 1015-1023 (Mar 1996), 5A487

Analytical solutions for bending of clamped layered composite plates using a higher-order theory, J Reinforced Plastics Composites 14(12) 1259-1277 (Dec 1995), 5A509

Geometrically nonlinear analysis of laminated composite stiffened shells, J Reinforced Plastics Composites 14(12) 1317-1336 (Dec 1995), 5A511

Transient thermoelastic analysis of composite brake disks, J Reinforced Plastics Composites 14(12) 1337-1361 (Dec 1995), 5A1188

Axial unwinding of yarn from a weft bobbin wound parallel to a disc tube, Fibres Textiles in E Europe 2(4) 28-31 (Dec 1994), 6T111

Damage computational approach for composites: Basic aspects and micromechanical relations, Comput Mech 17(1-2) 142-150 (Dec 1995), 6A451

Estimation of the orientation distribution of short-fiber composites using ultrasonic velocities, J Acoust Soc Am 99(1) 283-291 (Jan 1996), 6A452

Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, J Composite Mat 29(18) 2366-2387 (1995), 6A453

Modification and application of a unit cell continuum model to predict the elastic properties of textile composites, Composites Part A Appl Sci and Manuf 27A(2) 149-155 (1996), 6A454

Polycrystal plasticity modeling of bulk forming with FEs over orientation space, Comput Mech 17(1-2) 10-25 (Dec 1995), 6A455

Finite element analysis of substation composite insulators, Composites Sci Tech 55(4) 375-389 (1995), 7A20

Nonlinear FE analysis of horizontal elastomerics of revolution, Finite Elements Anal Des 21(3) 145-157 (Jan 1996), 7A23

Combined experimental and numerical scheme for the determination of contact loads between cemented particles, Mech Mat 22(1) 43-50 (Jan 1996), 7A543

Calculation of mechanical characteristics of composite materials based on the results of the multilayered structure work (Russian), Mech of Composite Mat T31(5) 607-615 (Oct 1995), 7A590

Characteristic-based pressure correction at all speeds, AIAA J 34(2) 272-280 (Feb 1996), 7A591

Elastoplastic analysis of layered metal matrix composite cylinders - Part I: Theory, J Pressure Vessel Tech 118(1) 13-20 (Feb 1996), 7A592

Elastoplastic analysis of layered metal matrix composite cylinders - Part II: Numerical results, J Pressure Vessel Tech 118(1) 21-26 (Feb 1996), 7A593

Generalized self-consistent FE iterative averaging method (Chinese), J Dalian Univ Tech 35(6) 795-800 (1995), 7A594

Numerical analysis of relaxor ferroelectric multilayered actuators and 2-2 composite arrays, Smart Mat Struct 4(4) 305-317 (Dec 1995), 7A595

Probabilistic analysis of multi-step failure process of a laminated composite in bending, Composites Sci Tech 55(4) 413-421 (1995), 7A918

Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells, Appl Mech Rev 49(7) 381-399 (Jul 1996), 8A18

Calculation of stresses in crosslinking polymers, J Composite Mat 30(1) 13-34 (1996), 8A471

Errors in double-sine series solutions for simply-supported symmetrically-laminated plates, Int J Mech Sci 38(5) 517-526 (May 1996), 8A488

Investigation of stresses in composite shells on the basis of methods of asymptotic synthesis due to various local actions (Russian), Mech of Composite Mat T31(6) 783-791 (Dec 1995), 8A497

Analysis of the post-buckling of laminated plates of symmetric cross-ply, Appl Math Mech 16(12) 1221-1230 (Dec 1995), 8A500

Characterization of mixed-mode energy release rates in orthotropic materials, Proc Inst Mech Eng C 210(C1) 33-42 (1996), 8A637

Thermal analysis of continuous filament-wound composites, J Thermoplastic Composite Mat 9(1) 54-75 (Jan 1996), 8A1229

Analytical-generalized variational method of multi-region on solution of large scale delamination of laminate (Chinese), J Comput Struct Mech Appl 12(2) 152-159 (May 1995), 9A538

Analysis of closed cell metal composites, Acta Mat 44(5) 2115-2126 (May 1996), 9A557

Effects of an interfacial region on the transverse behavior of metal-matrix composites: A FE analysis, Acta Mat 44(5) 2043-2055 (May 1996), 9A558

Remark on the state-space concept applied to bending, buckling, and free vibration of composite laminates, Comput Struct 59(5) 813-817 (Jun 1996), 9A559

Multiobjective optimization design methodology for incorporating manufacturing uncertainties in advanced composite structures, Eng Optim 25(4) 309-323 (Mar 1996), 10A505

Analysis and optimum design of composite grid structures, J Composite Mat 30(4) 503-534 (1996), 10A592

Fast numerical method for isothermal resin transfer mold filling, Int J Numer Methods Eng 39(8) 1405-1417 (Apr 1996), 10A593

Homogenization in elastic random media, Comp Assisted Mech Eng Sci 3(1) 9-21 (1996), 10A594

Optimization of stresses in the end-fittings of composite insulators for distribution and transmission lines, J Reinforced Plastics Composites 15(5) 467-478 (May 1996), 10A595

Stress-strain analysis of single-lap composite joints under tension, J Eng Mat Tech 118(2) 247-255 (Apr 1996), 10A596

Symmetric deformation analysis of symmetric sandwich plates including transverse shear and normal effects, J Reinforced Plastics Composites 15(5) 533-550 (May 1996), 10A615

Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, Int J Damage Mech 5(2) 150-170 (Apr 1996), 10A796

Ply-level failure analysis of thick-section composite structures based on "smeared" FE results, J Thermoplastic Composite Mat 9(2) 108-117 (Apr 1996), 10A801

Strain energy release rate formulae for skin-stiffener debond modeled with plate elements, Eng Fracture Mech 54(2) 211-228 (May 1996), 10A804

Computational simulation of matrix microslip bands in SiC-Ti-15 composite, Int J Damage Mech 5(2) 138-149 (Apr 1996), 10A820

Iterative calculation of the transverse shear distribution in laminated composite beams, AIAA J 34(6) 1299-1300 (Jun 1996), 11T486

Differential quadrature method for thick symmetric cross-ply laminates with first-order shear flexibility, Int J Solids Struct 33(18) 2647-2658 (Jul 1996), 11A491

Incorporating manufacturing tolerances in near-optimal design of composite structures, Eng Optim 26(1) 1-23 (Apr 1996), 11A492

Nail solution: Adhesion at interfaces, J Adhesion Sci Tech 10(4) 305-325 (1996), 11A847

Elastic response of post- and *in situ* consolidated laminated cylinders, Composites Part A Appl Sci and Manuf 27A(6) 437-446 (1996), 11A1250

Stress distributions in multi-fastened composite plates, Composite Struct 34(4) 427-436 (1996), 12A7

Analysis of a class of nonconforming FE for crystalline microstructures, Math Comput 65(215) 1111-1135 (Jul 1996), 12A8

Multilayer hybrid-stress FE analysis of composite laminates with delamination cracks originating from transverse cracking, Eng Fracture Mech 54(5) 713-729 (Jul 1996), 12A12

Boundary element method based on the 3D elastostatic fundamental solution for the orthotropic multilayered space: Application to composite materials, Comput Mech 18(1) 24-45 (May 1996), 12A577

Modeling of dynamic problems for viscoelastic composites, Int J Eng Sci 34(8) 923-932 (Jun 1996), 12A578

Simulation of texture evolution with FEs over orientation space - I: Development, Comput Methods Appl Mech Eng 130(3-4) 227-246 (Apr 1996), 12A579

Simulation of texture evolution with FEs over orientation space - II: Application to planar crystals, Comput Methods Appl Mech Eng 130(3-4) 247-261 (Apr 1996), 12A580

Screw dislocations near a crack penetrating through an interface, Eng Fracture Mech 54(5) 629-637 (Jul 1996), 12A758

Three-dimensional failure analysis of plain weave textile composites using a global-local FEM, J Composite Mat 30(9) 984-1003 (1996), 12A760

256Z. Experimental techniques

Optical fiber sensing technique for impact detection and location in composites and metal specimens, Smart Mat Struct 4(2) 93-99 (Jun 1995), 1A222

Combined tension and bending testing of tapered composite laminates, Appl Composite Mat 1(6) 401-413 (1995), 1A585

Development of deformation process in carbon fiber reinforced plastics and metals on acoustic emission data, Arch Acoust 20(3) 287-298 (1995), 1A586

Dynamic weight functions for a moving crack - II: Shear loading, J Mech Phys Solids 43(9) 1369-1383 (Sep 1995), 1A587

Effect of loading method on compression testing of composite materials, J Composite Mat 29(12) 1581-1600 (1995), 1A588

Processing monitoring of carbon-phenolic composites using smart sensors, Smart Mat Struct 4(2) 118-125 (Jun 1995), 1A589

Simple re-derivation of logarithmic disordering of a dynamic planar crack due to small random heterogeneities, J Mech Phys Solids 43(9) 1363-1368 (Sep 1995), 1A590

Study of three- and four-point shear testing of unidirectional composite materials, Composites 26(9) 653-659 (Sep 1995), 1A591

Microwave imaging of thick composite panels with defects, Mat Eval 53(8) 926-929 (Aug 1995), 1A853

Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, Composites Sci Tech 54(2) 161-168 (1995), 1A856

Dilatometer for measuring autogenous deformation in hardening Portland cement paste, Mat Struct 28(181) 406-409 (Sep 1995), 2A452

New compression test method for thick composites, J Composite Mat 29(13) 1789-1806 (1995), 2A453

Photoelastic behavior of optically heterogeneous fiber composites - I: The equivalence of birefringence in optically heterogeneous unidirectional fiber composites, Int J Mech Sci 37(9) 933-942 (Sep 1995), 2A455

Photoelastic behavior of optically heterogeneous fiber composites - II: The principal direction of the equivalent birefringence for optically heterogeneous unidirectional fiber composites, Int J Mech Sci 37(9) 933-942 (Sep 1995), 2A455

Testing of in-plane shear properties under fatigue loading, J Reinforced Plastics Composites 14(9) 965-987 (Sep 1995), 2A456

Air-coupled ultrasonic characterization of composite plates, Mat Eval 53(10) 1186-1190 (Oct 1995), 2A695

Composite structure development decisions using X-ray CT measurements, Mat Eval 53(10) 1198-1203 (Oct 1995), 2A703

Damage Tolerance in Advanced Composites (Technomic, Lancaster PA, 1995) 3R16

Influence of water content and temperature on the thermal conductivity of autoclaved aerated concrete (French), Mat Struct 28(182) 464-472 (Oct 1995), 3A485

Soil modification by cement kiln dust, J Mat in Civil Eng 7(4) 218-222 (Nov 1995), 3A489

Theoretical prediction of drying shrinkage of concrete, J Mat in Civil Eng 7(4) 204-207 (Nov 1995), 3A490

Thermal expansion of concretes: Case study in Iowa, J Mat in Civil Eng 7(4) 246-251 (Nov 1995), 3A491

Bolted connections for fiber-reinforced composite structural members: Experimental program, J Mat in Civil Eng 7(4) 223-231 (Nov 1995), 3A510

Bolted connections for fiber-reinforced composite structural members: Analytical model and design recommendations, J Mat in Civil Eng 7(4) 232-238 (Nov 1995), 3A511

Compression creep of pultruded E-glass-reinforced-plastic angles, J Mat in Civil Eng 7(4) 269-276 (Nov 1995), 3A513

Use of composites for rehabilitation of steel structures - Determination of bond durability, J Mat in Civil Eng 7(4) 239-245 (Nov 1995), 3A514

Acoustic-emission Kaiser effect in fly-ash cement mortar under compression, J Mat in Civil Eng 7(4) 212-217 (Nov 1995), 3A519

Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, Opt Lasers Eng 23(5) 277-290 (1995), 3A520

Frost resistance of roller-compacted high-volume fly ash concrete, J Mat in Civil Eng 7(4) 208-211 (Nov 1995), 3A521

Compressive failure of composites - Part II: Experimental studies, Prog Aerospace Sci 32(1) 43-78 (1996), 3A693

Fiber optic method for detection of impact induced damage in composite laminates (Japanese), J Soc Mat Sci Japan 44(504) 1196-1200 (Sep 1995), 3A742

Thermal imaging of hazardous organic fluids in concrete, Mat Struct 28(183) 526-533 (Nov 1995), 4A447

Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, Composite Struct 33(2) 77-86 (1995), 4A486

Uniaxial tensile respone of microfiber reinforced cement composites, Mat Struct 28(183) 507-517 (31v 1995), 4A489

Improved method for testing unidirectional FRP composites in tension, Composite Struct 33(1) 27-34 (1995), 4A497

Combined experimental-numerical approach to characterization of steel-glue-concrete interface, Mat Struct 28(183) 518-525 (Nov 1995), 4A505

Skin-stiffener interface stresses in tapered composite panel, Composite Struct 33(1) 1-6 (1995), 4A527

Auto-processing of very fine-scale composite materials by chaotic mixing of melts, Composites Part A Appl Sci and Manuf 27A(1) 37-47 (1996), 4A649

Fatigue behavior of mechanically fastened joints in composite materials, Composite Struct 33(2) 87-94 (1995), 4A766

Laser ultrasonics for the evaluation of composites and coatings, Mat Eval 53(12) 1356-1361 (Dec 1995), 4A770

Ultrasonic evaluation of fatigue damage in metal matrix composites, Mech Mat 21(4) 251-263 (Nov 1995), 4A779

Punching of granular media: Application to concrete (French), Mat Struct 28(184) 582-585 (Dec 1995), 5A466

Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, Mat Struct 28(184) 586-595 (Dec 1995), 5A468

Crack-detection device for brittle-matrix composite materials, Exp Tech 19(6) 15-18 (Dec 1995), 5T488

Experimental strain analysis of the iosipescu shear test specimen, Exp Mech 35(4) 352-360 (Dec 1995), 5A489

Experimental determination of TSAI failure tensorial terms F_{ij} for unidirectional composite materials, Composites Sci Tech 55(2) 145-156 (1995), 5A643

Comparison of several fracture mechanics methods for measuring interfacial toughness with microbond tests, J Adhesion 53(1-2) 45-68 (1995), 5A671

Technological and theoretical studies on the process of polyester yarn high-speed spinning, Fibres Textiles in E Europe 2(2) 36-37 (Jun 1994), 6A450

Carpet fibers from poly-e-caprolactam with improved elastic properties, Fibres Textiles in E Europe 2(3) 34-37 (Sep 1994), 6A456

Factors which determine yarn breakage during the ring spinning process, Fibres Textiles in E Europe 2(4) 24-27 (Dec 1994), 6A457

Fiber properties with changed cross-sectional geometry, Fibres Textiles in E Europe 1(2) 17-23 (Apr 1993), 6T458

Fibers from polypropylene-polyamide 6 blend, Fibres Textiles in E Europe 1(1) 34-37 (Feb 1993), 6A459

High-strength polyethylene film fibers, Fibres Textiles in E Europe 2(2) 33-35 (Jun 1994), 6A460

High-tenacity and high-modulus polyacrylonitrile fibers, Fibres Textiles in E Europe 3(2) 53-55 (Jun 1995), 6A461

Influence of pigments on structural-mechanical properties of chemical fibers, Fibres Textiles in E Europe 2(4) 43-45 (Dec 1994), 6T462

Lightless aging of man-made fibers, Fibres Textiles in E Europe 2(4) 32-34 (Dec 1994), 6A463

New approaches to the spinning of cellulose fibers, Fibres Textiles in E Europe 1(3) 34-36 (Jun 1993), 6T464

Quantitative stress mapping in alumina composites by optical fluorescence imaging, Acta Mat 44(2) 625-641 (Feb 1996), 6A465

Image processing system for measuring geometrical properties of fibers and yarns, Fibres Textiles in E Europe 2(1) 30-33 (Feb 1994), 6T590

Use of microfibers for the manufacture of fine yarns using rotor and ring spinning machines, Fibres Textiles in E Europe 1(3) 28-30 (Jun 1993), 6T593

Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, Mech Composite Mat Struct 2(4) 309-328 (Dec 1995), 6A687

New process for the production of hydrocellulose fibers without using carbon disulfide, Fibres Textiles in E Europe 2(4) 35-39 (Dec 1994), 6A870

Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, Fibres Textiles in E Europe 2(4) 40-42 (Dec 1994), 6A1192

Combined experimental and numerical scheme for the determination of contact loads between cemented particles, Mech Mat 22(1) 43-50 (Jan 1996), 7A543

Empirical strain rate-dependent constitutive relationship for glass-fiber reinforced epoxy and pure epoxy, Composite Struct 33(4) 201-210 (1995), 7A576

Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, Composite Struct 34(1) 91-100 (1996), 7A582

In situ study of short-beam shear tests for composite materials, Composites Sci Tech 55(4) 343-348 (1995), 7A596

Nondestructive Inspection of Composite Materials (Technomic, Lancaster PA, 1995) 8N19

Testing of Fiber Reinforced Concrete (Am Concrete Inst, Detroit, 1995) 8N23

Evaluation of chemical aging-oxidation in high-performance composites using the Vickers micro-indentation technique, J Composite Mat 30(2) 210-230 (1996), 8A472

Optimal pultrusion process conditions for improving the dynamic properties of graphite-epoxy composite beams, Mat Eval 54(3) 386-392 (Mar 1996), 8A559

Experimental investigation of stiffness reduction and cracks geometry in a unidirectional brittle matrix composite, J Composite Mat 30(3) 282-308 (1996), 8A647

Investigation of bond between concrete and composites: Use of a peul test, J Reinforced Plastics Composites 15(2) 208-227 (Feb 1996), 8A668

Experimental validation of a methodology to quantify distributed damage in laminated composites using the thermoelastic effect, Exp Tech 20(2) 28-31 (Apr 1996), 9A541

Influence of ceramic particles on solidification of Al-SiC and Al-Al_2O_3 (Polish), Arch Naukio Mat 16(2) 163-178 (1995), 9A556

Application of Alfrey's model for the stress-deformation analysis of locknit fabrics, Fibres Textiles in E Europe 3(3) 33-35 (Aug 1995), 9A560

Assessment of the opening degree of cotton based on compression of fiber aggregations, Fibres Textiles in E Europe 3(3) 39-40 (Aug 1995), 9A561

Damage-monitoring in composite laminates by piezoelectric films, Comput Struct 59(4) 623-630 (May 1996), 9A562

Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, Arch Naukio Mat 16(3) 185-197 (1995), 9A563

Use of thermoelasticity to evalute stress redistribution and notch sensitivity in ceramic matrix composites, Exp Tech 20(2) 15-20 (Apr 1996), 9A564

High-tenacity and high-modulus polyacrylonitrile fibers from high-molecular-weight homopolymers, Fibres Textiles in E Europe 3(4) 52-54 (Dec 1995), 10A597

Measurement of energy release rates for delaminations in composite materials, Exp Mech 36(1) 55-63 (Mar 1996), 10A797

Strain measurement in the smart composite, Chinese J Aeronaut 9(1) 55-63 (Feb 1996), 10A913

Advanced Ceramic Matrix Composites: Design Approaches Testing and Life Prediction Methods (Technomic, Lancaster PA, 1995) 11N26

Analytical and experimental mechanics of woven fabric composites, Mech Composite Mat Struct 3(2) 133-152 (Jun 1996), 11A464

10° off-axis tensile test: A critical approach, Composites Sci Tech 56(4) 483-488 (1996), 11A493

Determination of Mode III fracture toughness in thick composite laminates, Composites Sci Tech 56(4) 489-499 (1996), 11A678

Determination of rigidities of fiber-reinforced plastic laminates using holographic interferometry, AIAA J 34(6) 1301-1303 (Jun 1996), 11T704

Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, Composite Struct 34(4) 381-385 (1996), 12A550

258. CABLES, ROPES, BEAMS, ETC

258A. General theory

Analysis of the tensile strength of a parallel-lay ropes and bundles of parallel elements by probability theory, Int J Solids Struct 32(24) 3573-3588 (Dec 1995), 2A457

Dynamic stability of a tapered cantilever beam on an elastic foundation subjected to a follower force, Int J Solids Struct 33(10) 1409-1424 (Apr 1996), 8A473

Generalized beam theory and modular structures, Int J Solids Struct 33(10) 1425-1438 (Apr 1996), 8A474

Engineering Mechanics: Statics, Fourth Edition (Prentice Hall, Upper Saddle River, NJ, 1997) 9N13

Review of models of semi-rigid steel column-beam connections, Arch Civil Eng 42(1) 65-82 (1996), 9T565

Mechanics of Materials, Fourth Edition (PWS-Kent, Boston, MA, 1996) 10N23

Beam theory for strongly orthotropic materials, Int J Solids Struct 33(17) 2459-2484 (Jul 1996), 11A494

Phase boundary motion in an elastic bar of finite length, J Elast 42(2) 177-200 (Feb 1996), 11A495

Mechanics of Solids (Prentice-Hall, Englewood Cliffs NJ, 1996) 12R17

Optimum design of bending-torsion coupled beams with frequency or aeroelastic constraints, Comput Struct 60(5) 715-724 (Jul 1996), 12A823

258B. Nonlinear and finite deformation problems

Static and dynamic analysis of composite box beams using large deflection theory, Comput Struct 57(4) 635-642 (Nov 1995), 1A592

Duality and the complementary energy principle for a class of nonlinear structures - Part II: Anomalous dual variational principles for compressed elastic beams, Arch Mech 47(4) 699-724 (1995), 3A66

Direct strain measure for large-deformation analyses of beam structures, AIAA J 33(10) 1934-1939 (Oct 1995), 3A522

Large deformation elastic-plastic analysis of space frames, J Construct Steel Res 35(3) 275-290 (1995), 5A490

Boundary conditions for rigid-flexible shell with reinforced edge in a nonlinear theory of Timoshenko-Reissner type, Mech Solids 30(2) 100-109 (1995), 5A499

Segmental approach for large 3D rod deformations, Int J Solids Struct 33(8) 1137-1156 (Mar 1996), 6A466

Softening behavior of continuous thin-walled steel beams: Two numerical methods, J Construct Steel Res 36(1) 1-13 (1996), 6A467

Large-deformation analysis of flexible beams, Int J Solids Struct 33(9) 1335-1353 (Apr 1996), 7A597
Nonlinear elastic beam theory with application in contact problems and variational approaches, Mech Res Commun 23(1) 11-17 (Feb 1996), 7T598
Large deflection of simple variable-arc-length beam subjected to a point load, Struct Eng and Mech 4(1) 49-59 (Jan 1996), 8A475
Numerical model for externally prestressed beams, Struct Eng and Mech 4(2) 177-190 (Mar 1996), 8A752
Application of nonlinear beam and cable element theory in the design of light mast structures (Chinese), J Comput Struct Mech Appl 12(2) 239-243 (May 1995), 9A23
Discussion of analyzing of geometric nonlinear beams with large rotations (Chinese), J Comput Struct Mech Appl 12(4) 485-490 (Nov 1995), 9A25
Geometric nonlinear analysis of frame structures - II: 3D problem (Chinese), J Comput Struct Mech Appl 12(2) 133-141 (May 1995), 9A30
Geometric nonlinear analysis of frame structures - I: 2D problem (Chinese), J Comput Struct Mech Appl 12(1) 7-16 (Feb 1995), 9A31
Anomalous dynamic elastic-plastic response of a Galerkin beam model, Int J Mech Sci 38(7) 687-708 (Jul 1996), 9A180
Dynamic FE analysis of a nonlinear beam subjected to a moving load, Int J Solids Struct 33(12) 1673-1688 (May 1996), 9A566

258C. Strings, wires, chains

Changes in wire curvature as a wire rope is bent over a sheave, J Strain Anal Eng Des 30(4) 271-281 (Oct 1995), 3A523
Study on wire sweep in encapsulation of semiconductor chips using simulated experiments, J Electron Packaging 117(3) 178-184 (Sep 1995), 3A902
Equations of motion of the folded inextensible string, Z Angew Math Phys 46(6) 960-970 (Nov 1995), 5A491
Three-dimensional FE analysis and strength evaluation of link chains in chain hoists subjected to impact loads, J Strain Anal Eng Des 31(1) 43-51 (Jan 1996), 6A468
Transient response of an impulsively-loaded plastic string on a plastic foundation, Quart Appl Math 54(2) 327-343 (Jun 1996), 11A449

258E. Ropes, cables, and belts

Cable geometry for a towed submersible, Int J Mech Sci 37(10) 1079-1087 (Oct 1995), 2A458
Failure mechanisms in wire ropes, Eng Failure Anal 2(1) 45-57 (Mar 1995), 2A459
Deep water mooring dynamics, Marine Struct 9(2) 181-209 (1995), 3A130
Common way of estimation of cable forces (Polish), Inzynieria Budownictwo 52(9) 469-473 (1995), 3A524
Analysis of Cable and Catenary Structures (Telford, UK, 1994) 5R15
Improved practical formulas for estimation of cable tension by vibration method (Japanese), Proc JSCE 525(I-33) 351-354 (Oct 1995), 5T497
Dynamics of deep-sea cable system (Russian), Prikl Mekh (Appl Mech) 31(4) 65-73 (1995), 7T599
Analysis of necessary condition of looping in towed systems, Prikl Mekh (Appl Mech) 31(8) 67-74 (1995), 9A567
Application of homotopic methods to static flexible pipe and cable problems, Marine Struct 9(7) 671-696 (Aug 1996), 9A568
Dry friction losses in axially loaded cables, Struct Eng and Mech 4(3) 330-344 (May 1996), 11A496
Extension of a cable in the presence of dry friction, Struct Eng and Mech 4(3) 313-329 (May 1996), 11A497
Lateral wind effects on suspended cable, Facta Univ Mech Auto Control Robotic 1(5) 567-678 (1995), 12A581
Static analyses of the triangular running skyline system: A 3D movable logging cable system, Comput Struct 60(4) 579-592 (Jun 1996), 12A582

258F. Beams (bending and torsion)

Analyse Des Structures Et Milieux Continus: Mecanique des structures (French) (Presses Polytech Romandes, Lausanne, 1994) 1R12
Properly invariant theory of small deformations superposed on large deformations of an elastic rod, J Elast 39(2) 97-131 (May 1995), 1A456
Dynamic deformation of rigid-plastic beams for general impulsive loading: A phenomenological model, Int J Impact Eng 16(4) 535-562 (Aug 1995), 1A505
Torsion of a compound bar bounded by cylindrical polar coordinates, Quart J Mech Appl Math 48(3) 389-400 (Aug 1995), 1A593
Required rotations and moment redistribution for composite frames and continuous beams, J Construct Steel Res 35(2) 121-163 (1995), 1A918
Inequality constraint for the deflection of an elastic beam under a uniform distributed loading, Strojnicky Casopis 46(4) 229-242 (1995), 2A460
Moment curvature analysis of confined concrete flexural members, Asian J Struct Eng 1(2) 103-127 (1995), 2A461
Torsion of thin tubes: A justification of some classical results, J Elast 39(3) 213-227 (Jun 1995), 2A462
Design of eight-bolt end-plate connection considering both the beam and column sides of the connection, Asian J Struct Eng 1(2) 187-196 (1995), 2A722
Quantitive evaluation of shear strength of concrete beams reinforced with FRP rods (Japanese), Proc JSCE 590(V-28) 157-169 (Aug 1995), 2A761
Design of steel beams in cantilever-suspended-span construction, J Struct Eng 121(11) 1667-1673 (Nov 1995), 3A525
Electrorheological material based adaptive beams subjected to various boundary conditions, J Intelligent Mat Syst Struct 6(5) 700-717 (Sep 1995), 3T526
Finite element formulation of a sandwich beam with embedded electro-rheological fluids, J Intelligent Mat Syst Struct 6(5) 718-728 (Sep 1995), 3A527
Eigenfrequencies of the 3D Euler-Bernoulli beam system with dissipative joints, Appl Math Mech 16(8) 723-746 (Aug 1995), 4A154
Approximate elastic-plastic analysis of the static and impact beaviour of polymer composite sandwich beams, Composites 26(12) 803-814 (Dec 1995), 4A522
Adaptive BEM for plane quasi-harmonic equation: Application to stress analysis of shaft, Comput Struct 58(4) 757-763 (Feb 1996), 4A537
Invariant properties of Timoshenko beam equations, Int J Eng Sci 33(14) 2103-2114 (Nov 1995), 4A538
Moment-curvature relations for ferrocement beams, J Ferrocement 25(4) 347-359 (Oct 1995), 4A539
Stress-strain field near crack tip and calculation of critical stress of crack propagation in a pure bending beam of rectangular section with one-sided mode I crack, Appl Math Mech 16(8) 779-789 (Aug 1995), 4A715
Consistent treatment of shear design of structural concrete B-regions, Struct Eng Review 7(4) 323-335 (Nov 1995), 4A803
Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), Proc JSCE 525(I-33) 117-126 (Oct 1995), 5A106
Static and dynamic characteristics of spot welded sheet metal beams, J Eng Indust 117(3) 316-322 (Aug 1995), 5A125
Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), Proc JSCE 525(I-33) 139-152 (Oct 1995), 5A126
Shear center problem for nonlinear material behavior, J Appl Mech 62(3) 822-823 (Sep 1995), 5T492
Beam-column modeling, J Eng Mech 121(12) 1284-1291 (Dec 1995), 6A469
Bending of curved sandwich beams, Composite Struct 33(4) 211-225 (1995), 7A948
Shaft behavior of BTA deep-hole drilling tool, Int J Mech Sci 38(5) 461-482 (May 1996), 8A131
Preisach model for the cyclic bending of elastoplastic beams, Eur J Mech A 15(1) 155-172 (1996), 8A430
Behavior of cold-formed SHS beam-columns, J Struct Eng 122(3) 326-336 (Mar 1996), 8A476
Improved engineering theory for uniform beams, Acta Mech 114(1-4) 225-229 (1996), 8A477
Bending of a pretwisted bar by terminal transverse load, Int J Eng Sci 34(4) 437-452 (Mar 1996), 9A569
Deformation and tearing of clamped work-hardening beams subjected to impulsive loading, Int J Impact Eng 18(4) 425-433 (Jun 1996), 9A570
Mechanics of Materials, Fourth Edition (PWS-Kent, Boston, MA, 1996) 10N23
Static state of a two-phase solid mixture in a stressed elastic bar, Int J Solids Struct 33(16) 2267-2281 (Jul 1996), 10A569
Bending of a circular ring beam with rectilinear cuts, Mech Solids 30(6) 131-137 (1995), 10T598
Shear strength of beams with corrugated webs, J Struct Eng 122(4) 390-398 (Apr 1996), 10A599
Experimental verification of the method of deflection analysis of RC members subjected to bending (Polish), Inzynieria Budownictwo 53(4) 230-232 (1996), 10A895
Accuracy of some codes of practice in predicting the load capacity of cold-formed columns, J Construct Steel Res 37(2) 137-172 (1996), 10A900
Mechanics of Materials (Wiley, New York, 1996) 11R24
Configuration design sensitivity analysis of nonlinear structural systems with elastic material, Mech Struct Machines 24(2) 217-255 (1996), 11A498
Direct identification of non-uniform beams using static strains, Int J Solids Struct 33(19) 2775-2787 (Aug 1996), 11A499
Non-local energetic strength criterion applied to steel elements in combined tension and bending, Acta Tech CSAV 41(1) 57-74 (1996), 11A500
Advanced Mechanics of Structures (Marcel Dekker, New York, 1996) 12R13
Mechanics of Solids (Prentice-Hall, Englewood Cliffs NJ, 1996) 12R17
Deflections of Timoshenko beam with varying cross-section, Int J Mech Sci 38(8-9) 1017-1035 (Sep 1996), 12A583
Maximum stress in round structural members under general case of static loading, Comput Struct 60(5) 705-713 (Jul 1996), 12A584
Prediction of mode parameters and moment-rotation curves for crushed thin-walled trapezoidal tubes in bending, J Appl Mech 63(2) 453-459 (Jun 1996), 12A586
Nonstandard models for thin-walled beams with a view to applications, J Appl Mech 63(2) 399-403 (Jun 1996), 12A611
Optimal segmentation of beam and disk structures, Struct Optim 11(3-4) 252-259 (Jun 1996), 12A820

258G. Beams on foundations

Stiffness-matrix formulation of beams with shear effect on elastic foundation, J Struct Eng 121(9) 1265-1270 (Sep 1995), 1A594
Simplified analysis of long-span soil-metal structures, J Struct Eng 121(10) 1463-1470 (Oct 1995), 2A463
Simple FE for beams on elastic foundations, Strain 31(4) 135-142 (Nov 1995), 5A36
Influence lines for bending moments in beams on elastic foundations, Comput Struct 58(6) 1225-1231 (Mar 1996), 5A493
Peculiar set of problems in linear structural mechanics, Int J Solids Struct 33(6) 899-911 (Mar 1996), 5A494
High-frequency vertical vibrations of a rail under the action of a mobile harmonic force, Mech Solids 30(3) 177-185 (1995), 6T470
Laboratory modeling of laterally-loaded drilled shafts in clay, J Geotech Eng 121(12) 827-835 (Dec 1995), 6A541
Beams on tensionless elastic foundation: Approximate quantifier elimination with Chebyshev series, Int J Numer Methods Eng 39(4) 663-686 (Feb 1996), 7A600
Equivalent stiffness of a half-space interacting with a beam: Critical velocities of a moving load along the beam, Eur J Mech A 15(1) 67-90 (1996), 8A176
Approximate formulas of impact force for normal impact of a finite elastic beam on elastic foundation by a finite rod, Appl Math Mech 17(1) 45-52 (Jan 1996), 9A571
Dynamic effects in the rail vehicle-track system for elastic-plastic foundation, Eng Trans 43(3) 413-425 (1995), 9A572
Identification of bilinear material models of nonlinear beams on nonlinear foundation, Comp Assisted Mech Eng Sci 3(1) 45-53 (1996), 10A600
Advanced Mechanics of Structures (Marcel Dekker, New York, 1996) 12R13
Mixed FE solution of circular beam on elastic foundation, Comput Struct 60(4) 643-651 (Jun 1996), 12A585

258H. Thin walled beams

Dynamic analysis of thin-walled and variable open section beams with shear flexibility, Int J Numer Methods Eng 38(17) 2867-2885 (Sep 1995), 1A595
Buckling under axial compression of thin-walled composite beams exhibiting extension-twist coupling, Composite Struct 31(3) 203-212 (1995), 1A638
Calculs statiques et dynamiques des poutres a parois minces a section fermee, de forme carree ou rectangulaire par la methode de Vlasov (French), European J Mech Eng 40(2) 71-75 (1995), 2A464
Model for including semi-rigid connections on 3D thin-walled framed structures (Spanish), J Brazilian Soc Mech Sci 17(2) 120-134 (1995), 4A540
Study on the structural behavior and composite action in composite slim floor beams, Acta Polytech Scand Civil Eng Build 0(103) 7-87 (1995), 5T495
Comments on measuring thin-film stresses using bi-layer micromachined beams, J Micromech Microeng 5(4) 276-281 (Dec 1995), 6A345
Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, Thin-Walled Struct 24(4) 335-352 (1996), 7A558
Shear center for elastic thin-walled composite beams, Struct Eng and Mech 3(1) 91-103 (Jan 1995), 8A478
Warping solution for shear lag in thin-walled orthotropic composite beams, J Eng Mech 122(5) 449-457 (May 1996), 10A590
Consistency of straight-beam approximation of a thin-walled circular beam, Comput Struct 60(1) 87-93 (Jul 1996), 11A501
Prediction of mode parameters and moment-rotation curves for crushed thin-walled trapezoidal tubes in bending, J Appl Mech 63(2) 453-459 (Jun 1996), 12A586

258I. Anisotropic beams

Stress distribution in bending of strongly anisotropic beams, Eng Trans 43(1-2) 83-99 (1995), 1A596
Dynamics of linear anisotropic rods, Int J Solids Struct 33(7) 917-929 (Mar 1996), 6A124
Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, ACI Struct J 93(1) 30-35 (Feb 1996), 7A938
Shear center for elastic thin-walled compsoite beams, Struct Eng and Mech 3(1) 91-103 (Jan 1995), 8A478
Elastic composite beams, Comput Struct 59(3) 437-451 (May 1996), 8A479
Beam theory for strongly orthotropic materials, Int J Solids Struct 33(17) 2459-2484 (Jul 1996), 11A494
Analysis of thick hollow composite beams under general loadings, Composite Struct 34(2) 263-277 (1996), 11A502
Bending of curved sandwich beams: A numerical approach, Composite Struct 34(2) 279-290 (1996), 11A503

258J. Nonhomogeneous beams

Exact solution of sandwich beams, Appl Math Mech 16(6) 539-548 (Jun 1995), 1A597
Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, Finite Elements Anal Des 20(4) 253-271 (Sep 1995), 4A41
Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, Composite Struct 33(2) 77-86 (1995), 4A486
Accuracy of 1D models for multilayered composite beams, Int J Solids Struct 33(4) 521-544 (Feb 1996), 4A504
Combined experimental-numerical approach to characterization of steel-glue-concrete interface, Mat Struct 28(183) 518-525 (Nov 1995), 4A505
Theory of poroelastic beams with axial diffusion, J Mech Phys Solids 43(12) 2023-2042 (Dec 1995), 4A541
Local buckling of cold formed steel sheeting in profiled composite beams at service loads, Struct Eng Review 7(4) 289-300 (Nov 1995), 4A569
Consistent treatment of shear design of structural concrete B-regions, Struct Eng Review 7(4) 323-335 (Nov 1995), 4A803
Study on the structural behavior and composite action in composite slim floor beams, Acta Polytech Scand Civil Eng Build 0(103) 7-87 (1995), 5T495
Steel fibers as shear reinforcement in partially prestressed beams, ACI Struct J 92(6) 643-652 (Dec 1995), 5A713
Bending of curved sandwich beams, Composite Struct 33(4) 211-225 (1995), 7A948
Refined theory of composite beams: The role of short-wavelength extrapolation, Int J Solids Struct 33(10) 1387-1408 (Apr 1996), 8A480
Modeling of damaged RC beams strengthened by fiber composite plates, Eng Comput 12(7) 619-640 (Oct 1995), 9A573
Iterative calculation of the transverse shear distribution in laminated composite beams, AIAA J 34(6) 1299-1300 (Jun 1996), 11T486

258K. Nonuniform beams

Strengthening of reinforced concrete beams with composite materials: Theoretical study, Composite Struct 33(2) 63-75 (1995), 4A804
Analysis of composite beams with rectangular web openings, J Construct Steel Res 37(1) 47-62 (1996), 8A481

258L. Curved beams and rings

Analysis of vane-spring structures, Comput Struct 57(3) 447-453 (Nov 1995), 1A598
Response of thick composite rings under uniform external pressure, Composite Struct 31(4) 325-338 (1995), 1A599
Stress and failure analysis for cross-plied curved composite laminates, AIAA J 33(12) 2433-2435 (Dec 1995), 4T510
Stresses in a circular ring under two forces acting along a diameter, J Strain Anal Eng Des 31(1) 75-78 (Jan 1996), 6A471
Buckling of encased elliptic thin ring, J Eng Mech 121(12) 1325-1329 (Dec 1995), 6A494
Effect of member initial curvature on a flexible mechanism response, J Sound Vib 190(2) 177-194 (Feb 1996), 7A601

Pure bending of elliptical ring sector with cross section of multi-connected region composed of confocal ellipses, JSME Int J Ser A 39(1) 55-59 (Jan 1996), 7A602
Large deflection of simple variable-arc-length beam subjected to a point load, Struct Eng and Mech 4(1) 49-59 (Jan 1996), 8A475
Load carrying capacities of circular rings with arc-shaped supports, Int J Pressure Vessels Piping 67(1) 7-10 (1996), 8A482
Static analysis of a curved shaft subjected to end torques, Int J Solids Struct 33(11) 1587-1596 (May 1996), 8A483
Shear-torsion of large curvature beams - Part I: General theory, Int J Mech Sci 38(7) 709-722 (Jul 1996), 9A574
Shear-torsion of large curvature beams - Part II: Applications to thin bodies, Int J Mech Sci 38(7) 723-733 (Jul 1996), 9A575
Notch sensitivity of circular rings subjected to impact loading, Int J Pressure Vessels Piping 67(3) 257-261 (1996), 10A278
Bending of curved sandwich beams: A numerical approach, Composite Struct 34(2) 279-290 (1996), 11A503

258M. Rotating shafts

Elimination of periodic coefficients from the equations of motion of asymmetric shafts in anisotropic bearings, Arch Appl Mech 65(6) 415-424 (Jul 1995), 1A600
Experimental investigation on the effectiveness of advanced hybrid squeeze film damper (Chinese), J Vib Eng 8(3) 281-285 (Sep 1995), 4A542
Dynamic stability of rotating composite shafts, Mech Res Commun 23(2) 175-180 (Apr 1996), 8A130
Stability of gyroelastic beams, AIAA J 34(6) 1270-1278 (Jun 1996), 11A544

258Y. Computational techniques

Accurate finite strip for analyzing deep beams and shear walls, Commun Numer Methods Eng 11(8) 643-653 (Aug 1995), 1A601
Directed graphs as the generators of the whole set of gerber beams, Mech Machine Theory 30(7) 1013-1017 (Oct 1995), 2A465
Large displacement analysis of a beam using a CAD geometric definition, Comput Struct 57(6) 981-989 (Dec 1995), 2A466
Mixed formulation of nonlinear beam FE, Comput Struct 58(1) 71-83 (Jan 1996), 3A528
Application of genetic algorithm for the support location optimization of beams, Comput Struct 58(4) 797-800 (Feb 1996), 4A543
Beam elements based on a higher order theory - I: Formulation and analysis of performance, Comput Struct 58(4) 775-789 (Feb 1996), 4A544
Beam elements based on a higher order theory - II: Boundary layer sensitivity and stress oscillations, Comput Struct 58(4) 791-796 (Feb 1996), 4A545
Computational aspects of vector-like parametrization of 3D finite rotations, Int J Numer Methods Eng 38(21) 3653-3673 (Nov 1995), 4A546
Saint-Venant decay rates: A procedure for the prism of general cross-section, Comput Struct 58(6) 1059-1066 (Mar 1996), 5A496
Segmental approach for large 3D rod deformations, Int J Solids Struct 33(8) 1137-1156 (Mar 1996), 6A466
Softening behavior of continuous thin-walled steel beams: Two numerical methods, J Construct Steel Res 36(1) 1-13 (1996), 6A467
Analysis and investigation of double-tee wooden girders (Polish), Inzynieria Budownictwo 52(11) 599-600 (1995), 6A472
Geometrically nonlinear and elastoplastic 3D shear flexible beam element of von-Mises-type hardening material, Int J Numer Methods Eng 39(3) 383-408 (Feb 1996), 7A42
Weak-weak formulation for large displacements beam statics: A finite volumes approximation, Int J Numer Methods Eng 39(4) 585-604 (Feb 1996), 7A603
Engineering application of the h-p version of the FEM to the static analysis of a Euler-Bernoulli beam, Comput Struct 59(2) 195-211 (Apr 1996), 8A484
Semi-analytical plate-beam super-element (Chinese), J Comput Struct Mech Appl 12(2) 170-177 (May 1995), 9A83
Numerical analysis of asymmetrical-core two-mode fiber interferometers subjected to bending, J Intelligent Mat Syst Struct 7(1) 78-88 (Jan 1996), 9T878
Best-fit stress performance of a higher-order beam element, Commun Numer Methods Eng 12(4) 229-234 (Apr 1996), 10A601
Numerical reduced minimization theory for beam elements under nonuniform isoparametric mapping, Int J Numer Methods Eng 39(8) 1357-1382 (Apr 1996), 10A602
Static analyses of beams and plates by spline collocation method, J Eng Mech 122(4) 375-378 (Apr 1996), 10A603
Static and dynamic analysis of straight bars with variable cross-section, Comput Struct 59(6) 1185-1191 (Jun 1996), 10A604
Vectorial nature of the rotational dof in spatial beam elements, Comput Struct 59(6) 1199-1200 (Jun 1996), 10A605
Development of a new curved beam element with shear effect, Eng Comput 13(2/3/4) 9-25 (1996), 11A504
Hexahedral elements using PN functions: Applications to beams, Comput Struct 60(2) 305-313 (Jul 1996), 11A505
Design of Galerkin generalized least squares methods for Timoshenko beams, Comput Methods Appl Mech Eng 132(1-2) 1-16 (May 1996), 12A143
Discrete element response of beams with traveling mass, Adv Eng Software 25(2-3) 321-331 (1996), 12A587

258Z. Experimental techniques

Investigation of reinforcing bars from steel 34GS subjected to bending (Polish), Inzynieria Budownictwo 52(10) 554-555 (1995), 3A529
Improved practical formulas for estimation of cable tension by vibration method (Japanese), Proc JSCE 525(I-33) 351-354 (Oct 1995), 5T497
Analysis and investigation of double-tee wooden girders (Polish), Inzynieria Budownictwo 52(11) 599-600 (1995), 6A472
In situ study of short-beam shear tests for composite materials, Composites Sci Tech 55(4) 343-348 (1995), 7A596
Localization of forces applied on thin structures: Regularization of inverse problem, Rev Francaise Mec 0(1) 49-55 (1996), 11A506
Geometric axis bending strength of double angle beams, J Construct Steel Res 38(1) 23-40 (1996), 12A588

260. PLATES, SHELLS, MEMBRANES, ETC

260A. General theory

Restrictions on nonlinear constitutive equations for elastic shells, J Elast 39(2) 133-163 (May 1995), 1A602
Second order approximation theory of 3D elastic plates and its boundary conditions without using Kirchhoff-Love assumptions, Appl Math Mech 16(5) 405-427 (May 1995), 1A603
Lateral flexure of a stretched rectangular plate with elastic contour, Mech Solids 30(1) 143-148 (1995), 3A530
Atlas of Limit Loads of Metal Plates, Shells, and Disks (Elsevier Sci, New York, 1995) 5N21
Equilibrium displacement and stress distribution in a 2D, axially moving web under transverse loading, J Appl Mech 62(3) 772-779 (Sep 1995), 5A498
Physically correct models for material of elastic shells, Mech Solids 30(2) 94-99 (1995), 5A505
Fully-plastic crack propagation in stiffened plates, Int J Solids Struct 33(5) 629-645 (Feb 1996), 5A629
Equilibrium of elastic rectangle: Mathieu-Inglis-Pickett solution revisited, J Elast 40(3) 207-238 (Sep 1995), 6A473
Problem in the theory of pre-stressed plates, Mech Solids 30(3) 161-168 (1995), 6A474
Representation of the linear plate and shell theory equations with allowance for transverse shear deformation, Mech Solids 30(3) 150-160 (1995), 6T475
Classical plate theory and the Kelvin-Tait transformation, Mech Solids 30(4) 124-129 (1995), 7T604
Discussion on classical plate theory, Mech Solids 30(4) 130-138 (1995), 7T605
Solution of plate and shell theory problems using spline-functions: Survey (Russian), Prikl Mekh (Appl Mech) 31(6) 3-27 (1995), 7A606
Solution of the problem of genesis of strain anisotropy in thin-walled structural elements (Russian), Prikl Mekh (Appl Mech) 31(5) 42-47 (1995), 7A607
Static boundary conditions in the classical theory of shells and plates, Mech Solids 30(4) 121-123 (1995), 7T608
Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, Struct Eng and Mech 3(2) 121-133 (Mar 1995), 8A485
Model for deformation of solder bumps from ramp loading, J Electron Packaging 118(1) 37-40 (Mar 1996), 8A486
Variational principle of thin shell in stability, Appl Math Mech 16(12) 1161-1169 (Dec 1995), 8A516
Cienkie Powloki Sprezyste: Teoria Liniowa - Thin elastic shells: Linear theory (Polish) (1995) 9N12
Problem of carrying capacity of thin-walled prismatic folded systems, Prikl Mekh (Appl Mech) 31(8) 60-67 (1995), 9A576
Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, Acta Mech 115(1-4) 103-117 (1996), 9A604
Long-term crack-resistance of orthotropic viscoelastic plate under uniaxial loading, Prikl Mekh (Appl Mech) 31(9) 66-72 (1995), 9A808
Centrally-symmetric deformation of an elastic radially-inhomogeneous transversally-isotropic hollow sphere, Mech Solids 30(6) 36-42 (1995), 10A524
Reduction of the equations system for circular pipe-line shells to a single one integro-differential equation, Mec Appl 40(4-6) 539-544 (Dec 1995), 11T507
Orthotropic shells, ACI Struct J 93(3) 290-294 (Jun 1996), 11A517
Stipulation of the relationships between the covariant derivatives of space and surface tensors in shell theory, Facta Univ Mech Auto Control Robotic 1(5) 561-566 (1995), 12A589
Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, J Electron Packaging 118(2) 87-93 (Jun 1996), 12A1273

260B. Nonlinear and finite deformation theory

Finite displacements of curved annular elastic membranes without wrinkling, Quart Appl Math 53(3) 527-550 (Sep 1995), 1A604
Impact problem for a nonlinear elastic membrane with non constant boundary conditions, Z Angew Math Mech 75(8) 605-613 (1995), 1A605
Nonlinear displacement-based FE analyses of composite shells: A new total Lagrangian formulation, Int J Solids Struct 32(20) 3047-3073 (Oct 1995), 1A631
Optimal design of axisymmetric plastic shallow shells of von Mises material, Int J Solids Struct 32(24) 3693-3705 (Dec 1995), 2A467
Duality and the complementary energy principle for a class of nonlinear structures - Part I: Five-parameter shell model, Arch Mech 47(4) 677-698 (1995), 3A65
Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, Struct Optim 10(2) 122-127 (Oct 1995), 3A763
Full and von Karman geometrically nonlinear analyses of laminated cylindrical panels, AIAA J 33(11) 2173-2181 (Nov 1995), 4A547
Nonlinear analysis of prestretched circular membrane and a modified iteration technique, Int J Solids Struct 33(4) 545-553 (Feb 1996), 4A548
Second order displacement fields of a thick elastic plate under thrust: The incompressible case, Int J Solids Struct 33(3) 433-449 (Jan 1996), 4A549
Post-critical plastic deformation of biaxially stretched sheets, Int J Solids Struct 33(5) 689-705 (Feb 1996), 5A436
Boundary conditions for rigid-flexible shell with reinforced edge in a nonlinear theory of Timoshenko-Reissner type, Mech Solids 30(2) 100-109 (1995), 5A499
Cyclic elasto-plastic finite displacement analysis of plates with modified two-surface model (Japanese), Proc JSCE 525(I-33) 1-15 (Oct 1995), 5A500
Ultimate strength of girders with trapezoidally corrugated webs under patch loading, Thin-Walled Struct 24(2) 135-156 (1996), 5A501
Impact loading of plates and shells by free-flying projectiles: A review, Int J Impact Eng 18(2) 141-230 (Mar 1996), 6A189
Large deflections of thin elastic plates of arbitrary shape placed on elastic foundation under both uniform load and a concentrated load at the center: A simplified approach, European J Mech Eng 40(4) 215-218 (1995), 6A476
Stress and strain analysis of plates subjected to transverse wedge impact, J Strain Anal Eng Des 31(1) 1-7 (Jan 1996), 6A477
Calculation of thermoviscoelastoplastic nonaxisymmetrical deformation of the shells of revolution with thickness variable in two directions, Prikl Mekh (Appl Mech) 31(2) 21-29 (1995), 7A609
Large deflection dynamic response of composite laminated plates under in-plane loads, Composite Struct 33(4) 237-252 (1995), 7A610
Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, Appl Math Mech 16(11) 1079-1093 (Nov 1995), 7A611
Thermoviscoelastoplastic axisymmetrical stress-strained state of laminar shells of isotropic and orthotropic materials, Prikl Mekh (Appl Mech) 30(12) 55-61 (1994), 7A630
Residual strength of aluminum plate girders with scattered holes in the web panels, Proc Inst Civl Eng Struct Build 116(4) 361-372 (Nov 1995), 7A968
Inelastic vector FE analysis of RC shells, Struct Eng and Mech 4(2) 139-148 (Mar 1996), 8A17
Return mapping algorithm for plane stress and degenerated shell plasticity, Struct Eng and Mech 3(2) 185-192 (Mar 1995), 8A37
Refined element method and membrane locking for geometric nonlinear analysis of thin plates (Chinese), J Comput Struct Mech Appl 12(1) 102-109 (Feb 1995), 9A81
Application of moments method to the plastic dynamic response of damping medium simple square-plate (Chinese), J Comput Struct Mech Appl 13(1) 112-117 (Feb 1996), 9T197
Effect of transverse shear on finite deformation of generally laminated shallow shell with double curvature, Acta Mech Solida Sinica 9(1) 27-41 (1996), 9A577
Mathematical models and generalized variational principles of nonlinear analysis for perforated thin plates, Appl Math Mech 17(2) 109-118 (Feb 1996), 9A578
Stiffness-averaging method for calculating the fundamental frequency of finite amplitude nonlinear vibration of a circular plate (Chinese), J Comput Struct Mech Appl 12(2) 189-195 (May 1995), 9T579
Asymmetrical strain of orthotropic shells of revolution of nonlinear elastic base, Prikl Mekh (Appl Mech) 31(9) 57-61 (1995), 9A590
Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, Acta Mech 115(1-4) 103-117 (1996), 9A604
Nonlinear Theory of Shells through Variational Principles: From Elementary Algebra to Differential Geometry (Wiley, UK, 1995) 10R18
Model of motion of a deformable wheel, Mech Solids 30(6) 16-22 (1995), 10T85
Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, Mech Solids 30(5) 146-156 (1995), 10A537
Viscoplastic deformation and fracture of structural members under cyclic bending, Mech Solids 30(6) 97-102 (1995), 10A548
Shear capacity of plate girders with trapezoidally-corrugated webs, Thin-Walled Struct 26(1) 19-44 (1996), 11A15
New pipe element for modeling 3D large deformation problems, Finite Elements Anal Des 22(1) 59-68 (May 1996), 11A37
Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, Finite Elements Anal Des 22(1) 41-57 (May 1996), 11A39
Bending energy of highly-elastic membranes - II, Quart Appl Math 54(2) 307-316 (Jun 1996), 11A508
Computer-extended perturbation solution for the large deflection of a circular plate - Part I: Uniform loading with clamped edge, Quart J Mech Appl Math 49(2) 163-178 (May 1996), 11A509
Nonlinear prebuckling response of short thin-walled laminated composite cylinders in bending, Composite Struct 34(2) 309-324 (1996), 11A510
Instability of a cylindrical shell under three-point bending, Thin-Walled Struct 26(2) 105-122 (1996), 12A6
Geometrical nonlinear analysis of a simply supported truncated hip roof, Eng Struct 18(8) 628-634 (Aug 1996), 12A590

260C. Plates (flexure and torsion)

Epi-limit on HB and homogenization of heterogeneous plastic plates, Nonlinear Anal 25(5) 499-529 (Sep 1995), 1T489
Deflection of sandwich plates in terms of corresponding Kirchhoff plate solutions, Arch Appl Mech 65(6) 408-414 (Jul 1995), 1A606
Design of loose type orthotropic flange, Int J Pressure Vessels Piping 65(2) 127-135 (1996), 1A607
Design of orthotropic flat heads, Int J Pressure Vessels Piping 65(2) 137-140 (1996), 1A608
New system of boundary integral equations for plates with free edges, Math Methods Appl Sci 18(10) 755-772 (Aug 1995), 1A609
Plane-stain incremental response and sensitivity of stretched plates, Eur J Mech A 14(4) 553-575 (1995), 1A610
Buckling modes of plate-girders curved in plan, Proc JSCE 519(I-32) 51-56 (Jul 1995), 1A909
Simplified numerical analysis of residual stresses in aluminum welded plates, Comput Struct 58(1) 59-69 (Jan 1996), 3A441
BEM for stress reduction by optimal auxiliary holes, Eng Anal Boundary Elements 15(3) 219-223 (1995), 3A531
Deformation of simply supported circular plate by central pressure pulse, Int J Solids Struct 33(2) 283-299 (Jan 1996), 3A532
Extension of the applicability area of exact solutions in problems on antisymmetric bending of isotropic and orthotropic circular plates of variable thickness, Mech Solids 30(1) 138-142 (1995), 3A533
Robust limit loads of symmetric and non-symmetric plate structures, Trans Can Soc Mech Eng 19(3) 227-246 (1995), 3A534
Simplified analysis of circular plates including voids, Comput Struct 58(2) 263-275 (Jan 1996), 3A535
Computation of membrane and bending stress intensity factors for thin, cracked plates, Int J Fracture 72(1) 21-38 (1995), 3A681

Asymptotic solutions for crack closure in an elastic plate under combined extension and bending, J Mech Phys Solids 43(11) 1727-1749 (Nov 1995), 3A709

Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, J Mat in Civil Eng 7(4) 252-257 (Nov 1995), 3A774

Axisymmetric problem of the theory of elasticity for a non-uniform plate of variable thickness, J Appl Math Mech 59(3) 491-495 (1995), 4A550

Limit analysis of discs by a rigid FEM, Comput Methods Appl Mech Eng 127(1-4) 1-12 (Nov 1995), 4A551

Tracing equilibrium paths of elastic plates under different loading paths, Int J Solids Struct 33(4) 595-608 (Feb 1996), 4A552

Twelfth-order theory of antisymmetric bending of isotropic plates, Int J Mech Sci 38(1) 41-57 (Jan 1995), 4A553

Magnetoelastic bending and snapping of ferromagnetic plates in oblique magnetic fields, Fusion Eng Des 30(4) 325-337 (Nov 1995), 4A589

Local deck effects in stress-laminated T-system timber bridges, Struct Eng Review 7(4) 267-276 (Nov 1995), 4A819

Thin plate bending problem of dissimilar strips with two bond lines, Arch Appl Mech 66(1-2) 20-33 (Dec 1995), 5A416

Branching problem of crack and debonding at an end of stiffened boundary for thin plate bending (Japanese), Proc JSCE 525(I-33) 27-38 (Oct 1995), 5A502

Equivalent systems for variable thickness circular plates, Comput Struct 58(5) 957-971 (Mar 1996), 5A503

Hemivariational inequality approach to nonconvex constrained problems in the theory of von Karman Plates, Z Angew Math Mech 75(11) 861-866 (1995), 5A504

Equilibrium of elastic rectangle: Mathieu-Inglis-Pickett solution revisited, J Elast 40(3) 207-238 (Sep 1995), 6A473

Analysis of thin plates by the element-free Galerkin method, Comput Mech 17(1-2) 26-35 (Dec 1995), 6A478

Large-displacement structural durability analyses of simple specimens emulating rocket chambers, J Propulsion Power 12(1) 55-60 (Feb 1995), 6A479

Simply supported polygonal Mindlin plate deflections using Kirchhoff plates, J Eng Mech 121(12) 1383-1385 (Dec 1995), 6A480

So-called variational consistency of plate models - I: Indefinite plates, Evaluation of dispersive behavior, J Sound Vib 188(4) 515-527 (Dec 1995), 6A481

Analysis of stability on elastic plates with initial imperfections, Appl Math Mech 16(10) 951-959 (Oct 1995), 6A495

Two-level additive Schwarz preconditioner for nonconforming plate elements, Numer Math 72(4) 419-447 (Feb 1996), 7A16

Fractal two-level FE analysis of cracked Reissner's plate, Thin-Walled Struct 24(4) 315-334 (1996), 7A21

Nonstationary wave movements of oblique-angle plates under effect of instantaneously applied load, Prikl Mekh (Appl Mech) 30(12) 68-74 (1994), 7A223

Calculation plates with wide ribs (Russian), Prikl Mekh (Appl Mech) 31(3) 75-84 (1995), 7T612

Solution of the problem on the bending of rectangular plates by means of B-splines, Prikl Mekh (Appl Mech) 31(2) 43-48 (1995), 7A613

Radial cracking with closure, Int J Fracture 73(3) 233-261 (1995), 7A865

Stressed state of a plate heated by heat source (Russian), Prikl Mekh (Appl Mech) 31(5) 62-67 (1995), 7A1283

Weakly singular boundary integral equation for thin plate bending theory (Chinese), J Dalian Univ Tech 36(1) 13-19 (Jan 1996), 8A61

Analysis of plate bending problems using the regular direct BEM, Eng Anal Boundary Elements 16(3) 261-271 (1995), 8A487

Errors in double-sine series solutions for simply-supported symmetrically-laminated plates, Int J Mech Sci 38(5) 517-526 (May 1996), 8A488

Three-dimensional analysis of stress and strain transmission through line joints of spatial linkage of plates, Struct Eng and Mech 3(1) 11-23 (Jan 1995), 8A489

Indentation of a cantilever beam or plate, Int J Fracture 74(2) 99-130 (1995), 8A615

Thin plate bending of dissimilar half-planes with interface debonding emanating from an elliptical hole, Int J Fracture 74(3) 199-218 (1995), 8A660

Approximate discrete variable optimization of plate structures using dual methods, Struct Eng and Mech 3(4) 359-372 (Jul 1995), 8A706

Refined element method and membrane locking for geometric nonlinear analysis of thin plates (Chinese), J Comput Struct Mech Appl 12(1) 102-109 (Feb 1995), 9A81

Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), J Comput Struct Mech Appl 13(1) 67-73 (Feb 1996), 9A109

Stiffness-averaging method for calculating the fundamental frequency of finite amplitude nonlinear vibration of a circular plate (Chinese), J Comput Struct Mech Appl 12(2) 189-195 (May 1995), 9T579

Asymptotic analysis of the boundary layer for the Reissner-Mindlin plate model, SIAM J Math Anal 27(2) 486-514 (Mar 1996), 9A580

Shear and bending deformation of rigid-plastic circular plates by central pressure pulse, Int J Impact Eng 18(4) 383-402 (Jun 1996), 9A581

Simplified analysis of rectangular cellular plates, Int J Solids Struct 33(14) 2055-2074 (Jun 1996), 9A582

Moment transfer by shear in slab-column connections, ACI Struct J 93(2) 187-196 (Apr 1996), 9A919

Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, Mech Solids 30(5) 146-156 (1995), 10A537

Stress-strain analysis of single-lap composite joints under tension, J Eng Mat Tech 118(2) 247-255 (Apr 1996), 10A596

Pressure exerted by a disk on the wall of a hole in a plate loaded with an arbitrary plane system of forces, J Machinery Manuf Reliab 6 73-80 (1995), 10T606

Review of analysis of tube sheets, Int J Pressure Vessels Piping 67(3) 279-297 (1996), 10A607

Local stiffening effect of "double deck" bending strain gauges - Part 1, Strain 32(1) 13-22 (Feb 1996), 10A872

Ultimate behavior of tie plates at high-speed tension, J Struct Eng 122(4) 416-422 (Apr 1996), 10A917

Triangular plate bending element considered transverse shear strain deformation (Chinese), J Comput Struct Mech Appl 13(2) 157-164 (May 1996), 11A41

Computer-extended perturbation solution for the large deflection of a circular plate - Part I: Uniform loading with clamped edge, Quart J Mech Appl Math 49(2) 163-178 (May 1996), 11A509

Problems of nonlinear bending for orthotropic rectangular plate with four clamped edges, Appl Math Mech 17(3) 221-246 (Mar 1996), 11A511

Direct and indirect methods in the theory of elastic plates, Math Mech Solids 1(2) 251-260 (Jun 1996), 11A528

Fatigue strength of drilled holes under membrane and plate-bending stresses (Japanese), Proc JSCE 537(I-35) 327-338 (Apr 1996), 11A641

Numerical studies of fatigue induced by breathing of slender web plates, Thin-Walled Struct 25(4) 319-333 (1996), 11A774

Advanced Mechanics of Structures (Marcel Dekker, New York, 1996) 12R13

Nonlinear behavior of thin elastic plates, J Machinery Manuf Reliab 1 27-34 (1996), 12T165

Axisymmetric substitute structures for circular disks with noncentral holes, Comput Struct 60(6) 1047-1065 (Jul 1996), 12A591

Plate bending with hexahedral PN elements, Comput Struct 60(4) 635-641 (Jun 1996), 12A592

Optimal locations of point supports in plates for maximum fundamental frequency, Struct Optim 11(3-4) 170-177 (Jun 1996), 12A819

Optimization of panel forms for improvement in ship structures, Struct Optim 11(3-4) 195-212 (Jun 1996), 12A822

260D. Shells (membrane theory)

Finite displacements of curved annular elastic membranes without wrinkling, Quart Appl Math 53(3) 527-550 (Sep 1995), 1A604

Finite element formulation for finite static axisymmetric deformation of hyperelastic membranes, Comput Struct 57(3) 401-405 (Nov 1995), 1A611

Combination of the weight function method and the line spring model: A surface-cracked cylindrical shell subjected to stress gradients, Int J Solids Struct 32(20) 3037-3046 (Oct 1995), 1A833

Numerical shape finding procedure for very thin shells, Meccanica 30(4) 405-416 (Aug 1995), 2A468

Finite elasticity in spatial description: Linearization aspects with 3D membrane applications, Int J Numer Methods Eng 38(20) 3365-3381 (Oct 1995), 3A427

Finite deformations of elastic membranes, Int J Eng Sci 33(15) 2221-2238 (Dec 1995), 4A554

One of possible methods of prediction of critical stresses in longitudinally compressed cylindrical shells (Russian), Prikl Mekh (Appl Mech) 31(4) 17-21 (1995), 7A614

Three-dimensional FE nonlinear analysis of membranes, Comput Struct 59(4) 601-605 (May 1996), 9A583

Inertial effects in ductile failure of cylindrical tubes under internal pressure, Int J Impact Eng 18(5) 539-563 (Jul 1996), 10A546

Equilibrium analysis of finitely deformed elastic networks, Comput Mech 17(6) 359-373 (Apr 1996), 10A608

Bending and stretching actions in shallow domes - Part I: Analytical derivations, Thin-Walled Struct 26(1) 61-82 (1996), 11A512

Finite elastoplastic deformation of membrane shells, Eng Comput 13(2/3/4) 122-142 (1996), 11A513

New pre-loaded membrane geometric stiffness matrix with full rigid body capabilities, Comput Struct 60(1) 159-168 (Jul 1996), 11A514

260E. Shells (bending theory)

Transient stresses generated by low velocity impact on orthotropic laminated cylindrical shells, Composite Struct 31(3) 213-228 (1995), 1A572

Debonding effect in saddles: Comparison of the performance of Flugge's and Sanders' shell theories, Int J Pressure Vessels Piping 65(1) 53-74 (1996), 1A612

Impulse response of cantilever cylindrical shells with discontinuity in thickness subjected to axisymmetric load, Comput Struct 57(4) 623-634 (Nov 1995), 1A613

Contact problem for a shallow shell with a crack, J Appl Math Mech 59(2) 299-306 (1995), 2A469

Stability of complete circular and non-circular toroidal shells, Proc Inst Mech Eng C 209(C4) 245-255 (1995), 2A501

Hydrostatically Loaded Structures: The Structural Mechanics, Analysis, and Design of Powered Submersibles (Pergamon, Tarrytown, NY, 1995) 3R19

Axisymmetrical dynamic problem for nonhomogeneous shallow spherical shell with finite shift liquid (Russian), Prikl Mekh (Appl Mech) 30(9) 50-57 (1994), 3A536

Nonlinear deformation of thin-walled shells under local loads (Russian), Prikl Mekh (Appl Mech) 30(10) 50-55 (1994), 3A537

Self-sensing piezolaminated actuator model for shells using a first order shear deformation theory, J Intelligent Mat Syst Struct 6(5) 624-638 (Sep 1995), 3A538

Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, Struct Optim 10(2) 122-127 (Oct 1995), 3A763

Vibration of shallow conical shells with shear flexibility: A first-order theory, Int J Solids Struct 33(4) 451-468 (Feb 1996), 4A178

Nonlinear impact analysis of laminated cylindrical and doubly curved shells, J Composite Mat 29(16) 2160-2179 (1995), 4A525

General membrane equilibrium equation as an application of a proposed method for decoupling higher-order linear partial differential systems, Indust Math 45(1) 1-23 (1995), 4A555

Optimally reinforced cutouts in laminated circular cylindrical shells, Int J Mech Sci 38(2) 121-140 (Feb 1996), 4A556

Analysis and Software of Cylindrical Members (CRC Press, Boca Raton FL, 1996) 5R14

Physically correct models for material of elastic shells, Mech Solids 30(2) 94-99 (1995), 5A505

Nonsteady processes in cylindrical shells under impact loads, Mech Solids 30(3) 169-176 (1995), 6A190

New assumed strain triangles for nonlinear shell analysis, Comput Mech 17(1-2) 107-114 (Dec 1995), 6A482

Plane problem of the shell impact against elastic half-space (Russian), Prikl Mekh (Appl Mech) 31(6) 78-86 (1995), 7A256

Use of transition functions in the problems of nonstationary hydroelasticity for the systems of cylindrical shells, Prikl Mekh (Appl Mech) 30(11) 36-42 (1994), 7A290

Calculation of axisymmetrical thermoviscoelastoplastic state of the branched laminar shells allowing for the deformation of cross shear and rotation (Russian), Prikl Mekh (Appl Mech) 31(4) 33-40 (1995), 7T615

Certain relations of generalized theory of shallow shells under finite bendings (Russian), Prikl Mekh (Appl Mech) 31(3) 44-50 (1995), 7A616

Cylindrical shells under partially distributed radial loading, J Pressure Vessel Tech 118(1) 104-108 (Feb 1996), 7A617

Deformation of thin shallow inhomogeneous shells (Russian), Prikl Mekh (Appl Mech) 31(3) 60-66 (1995), 7A618

Determination of the stressed state of shells of revolution subjected to the effect of local loads, Prikl Mekh (Appl Mech) 30(11) 43-49 (1994), 7A619

Determining the stress-strained state of the shells of revolution under local effects (Russian), Prikl Mekh (Appl Mech) 31(3) 50-55 (1995), 7A620

Elasticity solutions of spherically isotropic cones under concentrated loads at apex, Appl Math Mech 16(11) 1025-1038 (Nov 1995), 7A621

Solution of 2D problems of statics of shallow shells on the basis of spline-approximations (Russian), Prikl Mekh (Appl Mech) 31(4) 10-16 (1995), 7A622

Study of the stressed state of hollow orthotropic cylinders of nonround cross-section under the effect of local load (Russian), Prikl Mekh (Appl Mech) 31(5) 3-11 (1995), 7A623

Two-dimensional elasto-plastic problems of the theory of flexible shells with curvilinear holes (Russian), Prikl Mekh (Appl Mech) 31(5) 30-35 (1995), 7A624

Behavior of circular cylindrical shells due to local debonding, Comput Struct 59(2) 333-345 (Apr 1996), 8A490

Cylindrical shell subject to local loads applied on an arbitrarily shaped area, Int J Solids Struct 33(10) 1375-1386 (Apr 1996), 8A491

Investigation of wave processes in shells and plates with regard to transverse normal and shear deformation (Russian), Mech of Composite Mat T31(6) 816-823 (Dec 1995), 8A492

Radial loading of cylindrical vessels: Influence of large displacements, Int J Pressure Vessels Piping 67(1) 81-94 (1996), 8A493

Approximate discrete variable optimization of plate structures using dual methods, Struct Eng and Mech 3(4) 359-372 (Jul 1995), 8A706

Overlapped K joints in circular hollow sections under axial loading: An investigation of the factors affecting the static strength using numerical modeling, J Offshore Mech Arctic Eng 118(1) 53-61 (Feb 1996), 8A770

Analysis of combined shells of revolution using the method of spline function (Chinese), J Comput Struct Mech Appl 12(1) 76-79 (Feb 1995), 9T584

Analysis of thin shells by the two-surface truss model - I: A general formulation, Comput Struct 59(5) 915-933 (Jun 1996), 9A585

Analysis of thin shells by the two-surface truss model - II: Numerical performance, Comput Struct 59(5) 935-947 (Jun 1996), 9A586

Prediction of critical value of the axial force of the imperfect cylindrical shell, Prikl Mekh (Appl Mech) 31(8) 48-53 (1995), 9A587

Stress analysis of nonradial cylindrical shell intersections subjected to external loading, Int J Pressure Vessels Piping 67(2) 145-153 (Jul 1996), 9A588

Efficient higher-order shell theory for laminated composites, Composite Struct 34(2) 197-212 (1996), 9A594

Postprocess method using a displacement field of higher-order shell theory, Composite Struct 34(2) 185-196 (1996), 9A595

Studies on connecting structure between steel shell and steel reinforced concrete (Japanese), Proc JSCE 532(V-30) 97-108 (Feb 1996), 9A924

Stress analysis of two-arc approximate ellipsoidal pressure vessel heads and parameter optimization, Int J Pressure Vessels Piping 67(2) 199-202 (Jul 1996), 9A970

Nonlinear Theory of Shells through Variational Principles: From Elementary Algebra to Differential Geometry (Wiley, UK, 1995) 10R18

Axisymmetric vibrations of elastic-plastic cylindrical shells by Galerkin's method, Int J Impact Eng 18(5) 489-504 (Jul 1996), 10A181

Semi-implicit method for solving problems of elasticity theory for thin axially-symmetric bodies, Mech Solids 30(5) 72-78 (1995), 10A514

Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, Mech Solids 30(5) 146-156 (1995), 10A537

Compatibility equations in shell theory, Int J Eng Sci 34(5) 495-499 (Apr 1996), 10A609

Exact displacement solution of arbitrary degree paraboloidal shallow shell of revolution made of linear elastic materials, Int J Solids Struct 33(16) 2299-2308 (Jul 1996), 10A610

Local load stresses in cylindrical shells at plate clips, Int J Pressure Vessels Piping 67(3) 263-271 (1996), 10A611

Adjustable refined strain field in degenerated shell elements, Finite Elements Anal Des 22(1) 85-91 (May 1996), 11A31

Bending and stretching actions in shallow domes - Part 1: Analytical derivations, Thin-Walled Struct 26(1) 61-82 (1996), 11A512

Layout optimization of doubly-curved laminated composite shells of revolution, Eng Comput 13(2/3/4) 263-282 (1996), 11A515

Large reinforced concrete cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 163-173 (May 1996), 11A757

Large steel-concrete composite cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 174-185 (May 1996), 11A758

Finite pure bending of curved pipes, Comput Struct 60(6) 1003-1012 (Jul 1996), 12A593

Simplified solution for stresses in thick-wall cylinders for various loading conditions, Comput Struct 60(4) 571-578 (Jun 1996), 12A594

Thin conical shells with constant thickness and under axisymmetric load, Comput Struct 60(6) 895-921 (Jul 1996), 12A595

Bending and stretching actions in shallow domes - Part 2: A comparative study of various boundary conditions, Thin-Walled Struct 26(2) 147-158 (1996), 12A600

Optimal design of a cylindrical shell loaded by internal pressure, Struct Optim 11(3-4) 263-266 (Jun 1996), 12A817

260F. Anisotropic membranes, plates, shells

Asymptotic methods in the theory of perforated membrane of nonhomogeneous structure, Eng Trans 43(1-2) 5-18 (1995), 1A614

Effective stiffnesses of transversely nonhomogeneous plates with unidirectional periodic structure, Int J Solids Struct 32(22) 3261-3287 (Nov 1995), 1A615

Local stress and fatigue strength of the joint between longitudinal and transverse ribs in orthotropic steel deck plate (Japanese), Proc JSCE 519(I-32) 127-137 (Jul 1995), 1A616

Static analysis of a long and thick orthotropic circular cylindrical shell of revolution, Arch Appl Mech 65(6) 425-436 (Jul 1995), 1A624

[1,2]-order theory for elastodynamic analysis of thick orthotropic shells, Int J Solids Struct 32(22) 3237-3260 (Nov 1995), 1A626

Analysis of orthotropic plate structures by the direct-dynamic stiffness method, Mech Res Commun 22(5) 461-466 (Oct 1995), 2T101

Boundary-domain element method for free vibration of moderately thick laminated orthotropic shallow shells, Int J Solids Struct 33(1) 11-18 (Jan 1996), 2A109

Automated yield-line analysis of orthotropic slabs, Int J Solids Struct 33(1) 1-10 (Jan 1996), 2A470

Stress-strain state of a three-layered cantilever panel with honeycomb filler, Mech Solids 30(1) 149-156 (1995), 3A502

Extension of the applicability area of exact solutions in problems on antisymmetric bending of isotropic and orthotropic circular plates of variable thickness, Mech Solids 30(1) 138-142 (1995), 3A533

Fall and von Karman geometrically nonlinear analyses of laminated cylindrical panels, AIAA J 33(11) 2173-2181 (Nov 1995), 4A547

Analysis of thick multilayered anisotropic plates by a higher order plate element, AIAA J 33(12) 2435-2437 (Dec 1995), 4T561

Buckling analysis of general triangular anisotropic plates using polynomials, AIAA J 33(12) 2414-2417 (Dec 1995), 4A571

Buckling of rectangular symmetric angle-ply laminated plates determined by eigensensitivity analysis, AIAA J 33(12) 2406-2413 (Dec 1995), 4A572

Transverse vibrations of a cantilever composite cylindrical shell with ring-shaped stiffening ribs, Mech Solids 30(2) 132-139 (1995), 5A138

Vibration and damping analysis of multilayered conical shells, Composite Struct 33(3) 143-157 (1995), 5A139

Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, Mech Solids 30(2) 156-161 (1995), 5A228

Microdynamics of composite plates, Arch Appl Mech 66(1-2) 126-133 (Dec 1995), 5A477

Hemivariational inequality approach to nonconvex constrained problems in the theory of von Karman Plates, Z Angew Math Mech 75(11) 861-866 (1995), 5A504

Analysis of simply supported shear-flexible transversely isotropic (ATJ graphite) moderately-deep cylindrical panels, Comput Struct 58(5) 1025-1030 (Mar 1996), 5A506

Stress analysis of plates with bonded unbalanced laminates, Composite Struct 33(3) 173-190 (1995), 5A507

Three-dimensional asymptotic analysis of anisotropic inhomogeneous and laminated cylindrical shells, Acta Mech 113(1-4) 137-153 (1995), 5A508

Finite element analysis of delamination cracks in bending of cross-ply laminates, Mech Composite Mat Struct 2(4) 281-294 (Dec 1995), 6A666

Determination of all elastic constants of orthotropic plate specimens from group velocity data, Res Nondestructive Eval 7(1) 13-29 (1995), 6T693

Specialized composite plate element for problems of delamination buckling and growth, Composite Struct 34(1) 43-53 (1996), 7A43

Dynamic response of rectangular plates of composite materials subjected to impact loads, Composite Struct 34(1) 55-63 (1996), 7A155

Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, Composite Struct 34(1) 29-42 (1996), 7A163

Semi-analytical solution for the dynamic response of thick composite plates in Hamilton systems, Finite Elements Anal Des 21(3) 201-212 (Jan 1996), 7A166

Thermal shocks in composite plates: A coupled thermoelastic FE analysis, Composite Struct 34(1) 1-12 (1996), 7A584

Calculation of laminar orthotropic plates in spatial statement, Prikl Mekh (Appl Mech) 30(11) 32-36 (1994), 7A625

Dispersion properties of three-layered orthotropic shells, Prikl Mekh (Appl Mech) 30(11) 57-64 (1994), 7A626

Formulation of boundary-value problems of statics for thin elastic asymmetrically-laminated anisotropic plates and solution using functions of a complex variable, J Appl Math Mech 59(4) 615-623 (1995), 7A627

Spatial stress-strained state of rectangular orthotropic plates of variable thickness under bending, Prikl Mekh (Appl Mech) 30(12) 39-49 (1994), 7T628

Stability of axisymmetrical equilibrium states of orthotropic spherical shells under large deflections written (Russian), Prikl Mekh (Appl Mech) 31(6) 72-78 (1995), 7A629

Thermoviscoelastoplastic axisymmetrical stress-strained state of laminar shells of isotropic and orthotropic materials, Prikl Mekh (Appl Mech) 30(12) 55-61 (1994), 7A630

Stability of laminated plates using finite strip method based on a higher-order plate theory, Composite Struct 34(1) 65-76 (1996), 7A663

Thermoelasticity of multilayer highly anisotropic shells, J Thermal Stresses 19(1) 1-15 (Feb 1996), 7A1289

Vector algorithm for layered reinforced concrete shell element stiffness matrix, Struct Eng and Mech 3(2) 173-183 (Mar 1995), 8A40

Vibration and stability analyses of thick anisotropic composite plates by finite strip method, Struct Eng and Mech 3(1) 49-60 (Jan 1995), 8A120

Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, Struct Eng and Mech 3(2) 121-133 (Mar 1995), 8A485

Three-dimensional asymptotic FEM for anisotropic inhomogeneous and laminated plates, Int J Solids Struct 33(13) 1939-1960 (May 1996), 8A494

Elastic buckling of multilayered anisotropic plates, J Mech Phys Solids 44(3) 389-411 (Mar 1996), 8A507

Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, Struct Eng and Mech 4(2) 111-124 (Mar 1996), 8A731

Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, Composite Struct 34(2) 129-143 (1996), 9A18

Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, Composite Struct 34(2) 145-162 (1996), 9A199

Supersonic flutter analysis of thermally stressed laminated composite flat panels, Composite Struct 34(2) 241-248 (1996), 9A323

Analysis of deflection to laminated plate using beam eigenfunction (Chinese), J Comput Struct Mech Appl 13(1) 55-61 (Feb 1996), 9T589

Asymmetrical strain of orthotropic shells of revolution of nonlinear elastic base, Prikl Mekh (Appl Mech) 31(9) 57-61 (1995), 9A590

Bond and force transfer of composite material plates bonded to concrete, ACI Struct J 93(2) 208-217 (Apr 1996), 9A591

Boundary value problems of moderately thick shallow cylindrical panels with arbitrary laminations, Composite Struct 34(2) 169-184 (1996), 9A592

Dynamic stiffness analysis of laminated composite plates, Thin-Walled Struct 25(2) 109-133 (1996), 9A593

Efficient higher-order shell theory for laminated composites, Composite Struct 34(2) 197-212 (1996), 9A594

Postprocess method using a displacement field of higher-order shell theory, Composite Struct 34(2) 185-196 (1996), 9A595

Problem of bending of fiber composite viscoelastic plates, Eng Trans 43(4) 505-526 (1995), 9A596

Punching shear of continuous flat reinforced concrete slabs, ACI Struct J 93(2) 218-228 (Apr 1996), 9A597

Simplified analysis of displacements, load capacity and damping of laminated shafts, Machine Dyn Prob 13 31-45 (1995), 9A598

Stress in an orthotropic plate containing two circular holes forced by elastic rings (Chinese), J Comput Struct Mech Appl 12(2) 225-230 (May 1995), 9T599

Limits of application of Kirchhoff's hypothesis in the theory of viscoelastic fibrous composite plates, Eng Trans 43(4) 603-626 (1995), 9A637

Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayerd cylindrical shells, AIAA J 34(4) 802-812 (Apr 1996), 9A647

Refined dynamic equations for multilayer shells with transversely soft fillers, Mech Solids 30(5) 136-145 (1995), 10A187

Further investigations in tubesheet design for a U-tube heat exchanger, J Pressure Vessel Tech 118(2) 142-153 (May 1996), 10A612

Thin sheet metal (membrane) suspended roof structures, Int J Space Struct 10(4) 237-241 (1995), 10A613

Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, Mech Solids 30(5) 157-163 (1995), 10A877

Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, Finite Elements Anal Des 22(1) 41-57 (May 1996), 11A39

Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, Composite Struct 34(2) 349-355 (1996), 11A121

Exact elasticity solution for buckling of composite laminates, Composite Struct 34(2) 291-299 (1996), 11A429

Nonlinear prebuckling response of short thin-walled laminated composite cylinders in bending, Composite Struct 34(2) 309-324 (1996), 11A510

Dynamic modeling of a composite plate: A mixed numerical and experimental approach, Composite Struct 34(2) 301-308 (1996), 11A516

Orthotropic shells, ACI Struct J 93(3) 290-294 (Jun 1996), 11A517

Strength and stiffness of fiber-reinforced plastic plates, Proc Inst Civil Eng Struct Build 116(2) 204-220 (May 1996), 11A518

Delamination buckling and postbuckling of composite cylindrical shells, AIAA J 34(6) 1279-1286 (Jun 1996), 11A654

Design of shear-deformable laminated shells for maximum buckling load under combined loading, Mech Composite Mat Struct 3(2) 119-132 (Jun 1996), 11A720

Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, Thin-Walled Struct 26(1) 45-60 (1996), 11A728

Stress distributions in multi-fastened composite plates, Composite Struct 34(4) 427-436 (1996), 12A7

Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, Composite Struct 34(4) 387-395 (1996), 12A57

Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, Finite Elements Anal Des 22(2) 143-161 (Jun 1996), 12A179

Analysis of composite laminates with transverse cracks, Composite Struct 34(4) 419-426 (1996), 12A557

Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, Composite Struct 34(4) 437-444 (1996), 12A571

Scale models for laminated cylindrical shells subjected to axial compression, Composite Struct 34(4) 371-379 (1996), 12A596

Buckling and postbuckling of composite panels with cutouts subjected to combined loads, Finite Elements Anal Des 22(2) 163-185 (Jun 1996), 12A619

260G. Stiffened and sandwich plates and shells

Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, Comput Mech 16(5) 307-314 (Aug 1995), 1A160

Adaptive analysis of stiffened structures using stiffened plate bending elements, Int J Pressure Vessels Piping 65(2) 117-125 (1996), 1A617

Laminate theory based on global-local superposition, Commun Numer Methods Eng 11(8) 633-641 (Aug 1995), 1A618

Plane contact of a cylindrical opening stiffened by a thin shell, Eng Trans 43(1-2) 27-44 (1995), 1A619

Total Langrangian formulation for laminated composite plates analyzed by 3D FEs with 2D kinematic constraints, Comput Struct 57(3) 455-466 (Nov 1995), 1A620

Analysis of anisotropic properties of honeycomb sandwich plates (Russian), Mech of Composite Mat T31(4) 482-487 (Aug 1995), 2A471

Analysis of laminated cylindrical shells with pre-loads, J Reinforced Plastics Composites 14(10) 1081-1107 (Oct 1995), 2A472

Evaluation of the energy absorption of laminated composite plates, Proc Inst Mech Eng J Aerospace Eng 209(G3) 185-194 (1995), 2A473

Finite element aided design of biaxial bending tests on oval sandwich plates, Comput Struct 57(5) 751-762 (Dec 1995), 2A474

Numerical and experimental study on the nonlinear behavior of laminated composite structural components, Comput Struct 57(6) 1071-1077 (Dec 1995), 2A475

Refined first-order shear-deformation theory and its justification by plane-strain bending problem of laminated plates, Int J Solids Struct 33(1) 49-64 (Jan 1996), 2A476

Vibration of stiffened skew Mindlin plates, Acta Mech 112(1-4) 11-28 (1995), 3A133

Plate-stiffener assemblies under nonuniform edge compression, J Struct Eng 121(11) 1603-1612 (Nov 1995), 3A539

Sandwich structures using ice loading - Theoretical and experimental investigations, Marine Struct 9(2) 259-280 (1995), 3A540

Thermostressed state of laminar shells of revolution with regard for creep deformation in the layers of orthotropic-materials under simple process of loading (Russian), Prikl Mekh (Appl Mech) 30(9) 46-49 (1994), 3A541

Accuracy assessment to applying 20-node solid elements to pressurized composite shells, Finite Elements Anal Des 20(4) 219-231 (Sep 1995), 4A4

Influence of fiber content and impactor parameters on transverse impact response of uniaxially reinforced composite plates, Composites 26(12) 877-886 (Dec 1995), 4A498

Improved genetic algorithm for the design of stiffened composite panels, Comput Struct 58(3) 543-555 (Feb 1996), 4A557

Orthotropic rectangular plates under in-plane loading - Part 1: Closed-form solutions for stresses, Composite Struct 33(1) 35-48 (1995), 4A558

Orthotropic rectangular plates under in-plane loading - Part 2: Application to the series solution by reference to the problem of colinear compression, Composite Struct 33(1) 49-62 (1995), 4A559

Ribbed cylindrical shells under a concentrated transverse load, AIAA J 33(12) 2437-2440 (Dec 1995), 4T560

Three-dimensional solutions for coupled thermoelectroelastic response of multilayered plates, Comput Methods Appl Mech Eng 126(3-4) 355-371 (Oct 1995), 4A1239

Transverse vibrations of a cantilever composite cylindrical shell with ring-shaped stiffening ribs, Mech Solids 30(2) 132-139 (1995), 5A138

Boundary conditions for rigid-flexible shell with reinforced edge in a nonlinear theory of Timoshenko-Reissner type, Mech Solids 30(2) 100-109 (1995), 5A499

Analytical solutions for bending of clamped layered composite plates using a higher-order theory, J Reinforced Plastics Composites 14(12) 1259-1277 (Dec 1995), 5A509

Finite strip analysis of imperfect laminated plates under end shortening and normal pressure, Int J Numer Methods Eng 38(24) 4193-4205 (Dec 1995), 5A510

Geometrically nonlinear analysis of laminated composite stiffened shells, J Reinforced Plastics Composites 14(12) 1317-1336 (Dec 1995), 5A511

Laminated cylindrical shells under mechanical and hygrothermal loads, Adv Eng Software 23(2) 83-88 (1995), 5A512

Pseudo-dynamic tests of concrete filled steel columns with prototype details (Japanese), Proc JSCE 525(I-33) 55-67 (Oct 1995), 5A513

Semi-analytical solution for laminated composite plates in Hamiltonian system, Comput Methods Appl Mech Eng 128(3-4) 395-404 (Dec 1995), 5A514

Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), Proc JSCE 525(I-33) 39-53 (Oct 1995), 5A515

Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), Proc JSCE 525(I-33) 69-82 (Oct 1995), 5A1325

Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), Proc JSCE 525(I-33) 83-95 (Oct 1995), 5T1328

Computational models for sandwich panels and shells, Appl Mech Rev 49(3) 155-200 (Mar 1996), 6A483

Solution of geometrically nonlinear problem for stiffened shell of revolution taking into account loads rotation under deformation, Russian Aeronaut 38(1) 6-11 (1995), 6A484

Technological stresses in a composite plate with a honeycomb filler, J Machinery Manuf Reliab 3 69-77 (1995), 6A485

Plastic buckling of stiffened torispherical shell, Appl Math Mech 16(10) 1003-1012 (Oct 1995), 6A506

Thermally induced vibration suppression of laminated plates with piezoelectric sensors and actuators, Smart Mat Struct 4(4) 281-290 (Dec 1995), 7A139

Design and construction of hygro-thermally stable shells, Mech of Composite Mat T31(5) 677-683 (Oct 1995), 7A566

Analysis of cracked aluminum plates repaired with bonded composite patches, AIAA J 34(2) 369-374 (Feb 1996), 7A631

Frame tripping in ring stiffened externally pressurized cylinders, Marine Struct 9(6) 585-608 (1996), 7A632

Method of initial functions in the analysis of laminated plates (Russian), Prikl Mekh (Appl Mech) 31(6) 64-71 (1995), 7A633

Multicriteria optimal design of stiffened plates - Part 1: Choice of the formula for the buckling load, Thin-Walled Struct 24(4) 353-369 (1996), 7A634

Numerical study of boundary effects in laminated cylinders (Russian), Prikl Mekh (Appl Mech) 31(6) 28-33 (1995), 7A635

Shear lag in orthotropic beam flanges and plates with stiffeners, Int J Solids Struct 33(9) 1317-1334 (Apr 1996), 7A636

Theory of orthotropic shells and plates reinforced by the stiffening ribs, Prikl Mekh (Appl Mech) 30(11) 64-68 (1994), 7A637

New biaxial bending test on oval sandwich plates, Exp Tech 20(1) 27-30 (Feb 1996), 7A645

Supersonic flutter analysis of stiffened isotropic and anisotropic panels, AIAA J 34(3) 637-639 (Mar 1996), 8T229

Stressed state of a box-like shell reinforced by a pair of symmetric inclusions parallel to the edge of the shell, J Appl Math Mech 59(5) 817-820 (1995), 8A495

Design model for intermediate web stiffeners, Proc Inst Civl Eng Struct Build 116(1) 54-68 (Feb 1996), 9A600
Stress analysis of junction of plate and shell built-up structures via special finite shell element, JSME Int J Ser A 39(2) 179-185 (Apr 1996), 10A614
Symmetric deformation analysis of symmetric sandwich plates including transverse shear and normal effects, J Reinforced Plastics Composites 15(5) 533-550 (May 1996), 10A615
Three-dimensional analysis of doubly-curved laminated shells, J Eng Mech 122(5) 391-401 (May 1996), 10A616
Composite suspended shells on cyclical plan, Int J Space Struct 10(4) 243-248 (1995), 10A891
Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, Finite Elements Anal Des 21(4) 265-289 (Apr 1996), 11A34
Dynamic crush tests of energy-absorbing laminated composite plates, Composites Part A Appl Sci and Manuf 27A(6) 467-475 (1996), 11A490
Calculation of interlaminar stresses in laminated plates using Walsh transforms, AIAA J 34(6) 1295-1299 (Jun 1996), 11T519
Dynamic response of laminated orthotropic spherical shells including transverse shear deformation and rotatory incrtia, Appl Math Mech 17(3) 205-212 (Mar 1996), 11A520
Improved theory for contact indentation of sandwich panels, AIAA J 34(6) 1238-1244 (Jun 1996), 11A521
Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, Composites Sci Tech 56(4) 407-422 (1996), 11A522
Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, Composites Sci Tech 56(4) 423-437 (1996), 11A523
Ultimate strength of stiffened plates subjected to biaxial forces (Japanese), Proc JSCE 537(I-35) 29-42 (Apr 1996), 11A524
Machine direction strength theory of corrugated fiberboard, J Composite Tech Res 18(2) 80-88 (Apr 1996), 11A551
Scattering of SH waves by flaws in sandwich plates and its use in flaw detection, Composite Struct 34(2) 251-261 (1996), 11A711
Exact method for dynamic analysis of rectangular laminated orthotropic plates under heating load, J Composite Tech Res 18(2) 135-139 (Apr 1996), 11A1251
Impact response of doubly curved laminated composite shells using higher-order shear deformation theories, J Reinforced Plastics Composites 15(6) 575-601 (Jun 1996), 12A597
Improved simple higher-order theory for laminated composite shells, Comput Struct 60(3) 343-350 (Aug 1996), 12A598
Local buckling of stiffened plates in offshore structures, J Construct Steel Res 38(1) 41-59 (1996), 12A622
Detection of flaws in sandwich plates, Composite Struct 34(4) 409-418 (1996), 12A792

260H. Plates and shells on foundations

CC series solution for bending of rectangular plates on elastic foundations, Appl Math Mech 16(6) 593-601 (Jun 1995), 1A621
Rectangular anisotropic (orthotropic) plates on a tensionless elastic foundation, Mech of Composite Mat T31(3) 378-386 (Jun 1995), 1A622
Theoretical and experimental study of U-shaped trough shell of aqueduct, Asian J Struct Eng 1(2) 197-207 (1995), 2A477
Planar forcing of floating ice sheets, Int J Solids Struct 33(1) 19-31 (Jan 1996), 2A1281
Lateral flexure of a stretched rectangular plate with elastic contour, Mech Solids 30(1) 143-148 (1995), 3A530
Thermoelastic effect of a cylindrical shell with a solid body (Russian), Prikl Mekh (Appl Mech) 30(9) 58-62 (1994), 3A542
Postbuckling analysis of composite laminated plates on two-parameter elastic foundations, Int J Mech Sci 37(12) 1307-1316 (Dec 1995), 3A549
Simple FE for beams on elastic foundations, Strain 31(4) 135-142 (Nov 1995), 5A36
Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, Composite Struct 33(3) 135-142 (1995), 5A516
Buckling and vibration of thick laminates on Pasternak foundations, J Eng Mech 122(1) 54-63 (Jan 1996), 6A147
Large deflections of thin elastic plates of arbitrary shape placed on elastic foundation under both uniform load and a concentrated load at the center: A simplified approach, European J Mech Eng 40(4) 215-218 (1995), 6A476
Circular plate in contact with an elastic half-space by unilateral constraints (Polish), Inzynieria Budownictwo 52(11) 594-596 (1995), 6A486
Modified Kirchhoff theory for BE analysis of thin plates resting on two-parameter foundation, Eng Struct 18(2) 102-114 (Feb 1996), 6A487
Approximate explicit solution for the local torsion of an elastic layer, Mech Struct Machines 24(1) 21-38 (1996), 7A502
Asymptotic solution of the problem of the interaction of a plate with a foundation inhomogeneous in depth, J Appl Math Mech 59(4) 661-669 (1995), 7A638
Differential quadrature method for Mindlin plates on Winkler foundations, Int J Mech Sci 38(4) 405-421 (Apr 1996), 7A639
Thermomechanical postbuckling of imperfect moderately thick plates on two-parameter elastic foundations, Struct Eng and Mech 4(2) 149-162 (Mar 1996), 8A502
Elastic-plastic plates sealing a liquid: Tests and analysis, Eng Trans 43(3) 427-441 (1995), 9A601
Computerized simulation of interaction between relieving structure and buried waste pipeline (Polish), Inzynieria Budownictwo 53(4) 250-252 (1996), 10A617
Rectangular plates resting on tensionless elastic foundation: Some new results, J Eng Mech 122(4) 385-387 (Apr 1996), 10A618
Analytical and experimental mechanics of woven fabric composites, Mech Composite Mat Struct 3(2) 133-152 (Jun 1996), 11A464
Iterative solution of coupled FE-BE discretizations for plate-foundation interaction problems, Int J Numer Methods Eng 39(11) 1889-1901 (Jun 1996), 11A525
Settlement of a rigid circular foundation resting on a half-space exhibiting a near surface elastic non-homogeneity, Int J Numer Anal Methods Geomech 20(5) 351-364 (May 1996), 11A526
Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, Composite Struct 34(2) 325-338 (1996), 11A702
Bearing capacity of floating ice covers subjected to static and oscillatory loads, Appl Mech Rev 49(11) 463-475 (Nov 1996), 12A1038

260I. Thick plates and shells

Comparison of solutions in a frame-work of different plate theories, J Theor Appl Mech 33(3) 711-723 (1995), 1A623
Static analysis of a long and thick orthotropic circular cylindrical shell of revolution, Arch Appl Mech 65(6) 425-436 (Jul 1995), 1A624
Stochastic BEM in statistical analysis of moderately thick plates, Acta Mech Solida Sinica 8(2) 163-170 (1995), 1A625
[1,2]-order theory for elastodynamic analysis of thick orthotropic shells, Int J Solids Struct 32(22) 3237-3260 (Nov 1995), 1A626
Three-dimensional FE analysis of thick laminated plates, Comput Struct 57(6) 1051-1062 (Dec 1995), 2A478
Boundary integral equation formulation for moderately thick laminated orthotropic shallow shells, Comput Struct 58(2) 277-287 (Jan 1996), 3A543
Finite element analyses of irregular thick plates for signal pole design, Comput Struct 58(1) 221-232 (Jan 1996), 3A544
Second order displacement fields of a thick elastic plate under thrust: The incompressible case, Int J Solids Struct 33(3) 433-449 (Jan 1996), 4A549
Analysis of thick multilayered anisotropic plates by a higher order plate element, AIAA J 33(12) 2435-2437 (Dec 1995), 4T561
Modified energy functional for the Reissner theory of plates, Mech Solids 30(2) 110-117 (1995), 5A517
Representation of the linear plate and shell theory equations with allowance for transverse shear deformation, Mech Solids 30(3) 150-160 (1995), 6T475
Bending, free vibration and impact response of thick laminated composite plates, Comput Struct 59(1) 115-129 (Apr 1996), 7A152
Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, JSME Int J Ser A 39(1) 78-85 (Jan 1996), 7A253
Approximate Hamilton functionals for the problems of low-frequency and high-frequency free vibrations of the Reissner plate, Mech Solids 30(4) 168-175 (1995), 7T640
Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, Struct Eng and Mech 3(2) 121-133 (Mar 1995), 8A485
Thermomechanical postbuckling of imperfect moderately thick plates on two-parameter elastic foundations, Struct Eng and Mech 4(2) 149-162 (Mar 1996), 8A502
Asymptotic analysis of the boundary layer for the Reissner-Mindlin plate model, SIAM J Math Anal 27(2) 486-514 (Mar 1996), 9A580
Efficient higher-order shell theory for laminated composites, Composite Struct 34(2) 197-212 (1996), 9A594
Postprocess method using a displacement field of higher-order shell theory, Composite Struct 34(2) 185-196 (1996), 9A595
Damage development in boundary layers of Mindlin-Reissner plates, Arch Civil Eng 41(3) 397-409 (1995), 9A602
Strain of thick-walled cylindrical shells with porous filler and the inner explosion loading, Prikl Mekh (Appl Mech) 31(9) 61-65 (1995), 9A603
Optimization of linear segmented circular Mindlin plates for maximum fundamental frequency, Struct Optim 11(2) 128-133 (Apr 1996), 11A730
Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, Composite Struct 34(4) 437-444 (1996), 12A571

260J. Inflatable membranes

Modeling nonaxisymmetric off-design shapes of large scientific balloons, AIAA J 34(2) 400-407 (Feb 1996), 7A641
Analysis of an internally pressurized orthogonally stiffened cylindrical shell with an asymmetrical section ring, Mech Composite Mat Struct 3(1) 29-64 (Mar 1996), 8A496
Fracture mechanics of a shaft-loaded blister of thin flexible membrane on rigid substrate, Int J Fracture 74(2) 181-197 (1995), 8A665
Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, Acta Mech 115(1-4) 103-117 (1996), 9A604
Model of motion of a deformable wheel, Mech Solids 30(6) 16-22 (1995), 10T85
Bending energy of highly-elastic membranes - II, Quart Appl Math 54(2) 307-316 (Jun 1996), 11A508

260K. Rotating discs, blades, and shells

Effect of anisotropy on stresses in rotating discs, Int J Mech Sci 37(8) 873-881 (Aug 1995), 1A627
Transverse vibration of a composite flywheel with optimum design, Z Angew Math Mech 75(11) 879-880 (1995), 5T518
Critical forcing for homoclinic and heteroclinic orbits of a rotating pendulum, J Sound Vib 189(2) 231-248 (Jan 1996), 7A106
Dynamic stability of spinning beams of unsymmetrical cross-section with distinct end conditions, J Sound Vib 189(2) 161-171 (Jan 1996), 7A642
Estimation of the strength of turbine blade shell layers with permeable surfaces, J Machinery Manuf Reliab 4 44-48 (1995), 7T643
Stress distribution caused by force with saw (Chinese), J Dalian Univ Tech 36(2) 184-188 (Mar 1996), 9A605
Formation of programs for equivalent laboratory tests of turbine blades, J Machinery Manuf Reliab 6 69-72 (1995), 10A619

260Y. Computational techniques

Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, Comput Methods Appl Mech Eng 125(1-4) 17-40 (Sep 1995), 1A518
New system of boundary integral equations for plates with free edges, Math Methods Appl Sci 18(10) 755-772 (Aug 1995), 1A609
Diagnosis of local uncertain modifications in the boundary conditions of a rectangular plate via convex modeling, Comput Methods Appl Mech Eng 124(4) 303-319 (Aug 1995), 1A628
Equilibrium constrained assumed natural coordinate strain plate elements, Int J Numer Methods Eng 38(17) 2951-2977 (Sep 1995), 1A629
Implementation of a nonlinear four node shell FE for thin multilayered elastic shells, Comput Mech 16(5) 341-359 (Aug 1995), 1A630
Nonlinear displacement-based FE analyses of composite shells: A new total Lagrangian formulation, Int J Solids Struct 32(20) 3047-3073 (Oct 1995), 1A631
p-version of FEM for shell analysis, Comput Mech 16(5) 328-340 (Aug 1995), 1A632
Shear-locking free robust isoparametric three-node triangular FE for moderately-thick and thin arbitrarily laminated plates, Comput Struct 57(4) 589-597 (Nov 1995), 1A633
Static and stability analysis of composite plates by a semi-analytical method, Comput Struct 57(4) 673-679 (Nov 1995), 1A634
Accurate representation of local effects due to concentrated and discontinous loads in hybrid-Trefftz plate bending elements, Comput Struct 57(5) 863-870 (Dec 1995), 2A479
Dynamic analysis and drilling dof, Int J Numer Methods Eng 38(19) 3193-3210 (Oct 1995), 2A480
Finite element formulation for shells of negative Gaussian curvature, Comput Struct 57(6) 973-979 (Dec 1995), 2A481
Higher-order, partial hybrid stress, FE formulation for laminated plate and shell analyses, Comput Struct 57(5) 817-827 (Dec 1995), 2A482
Shell elements as a coupling of plate and "drill" elements, Comput Struct 57(5) 893-902 (Dec 1995), 2A483
Computation of thin structures at large strains and large rotations using a simple C° isoparametric three-node shell element, Comput Struct 58(2) 249-261 (Jan 1996), 3A545
Three-dimensional FE for analyzing thin plate-shell structures, Int J Numer Methods Eng 38(20) 3453-3482 (Oct 1995), 3A546
Damage development in boundary layers of Mindlin-Reissner plates, Arch Civil Eng 41(3) 397-409 (1995), 3A715
Recent advances in the P-version of the FEM for shells, Comput Syst Eng 6(3) 195-211 (Jun 1995), 4A44
Orthotropic rectangular plates under in-plane loading - Part 1: Closed-form solutions for stresses, Composite Struct 33(1) 35-48 (1995), 4A558
Orthotropic rectangular plates under in-plane loading - Part 2: Application to the series solution by reference to the problem of colinear compression, Composite Struct 33(1) 49-62 (1995), 4A559
Assumed strain approach avoiding artificial thickness straining for a nonlinear 4-node shell element, Commun Numer Methods Eng 11(11) 899-909 (Nov 1995), 4A562
Coupled analysis method for structures with independently modeled FE subdomains, Int J Numer Methods Eng 38(21) 3695-3718 (Nov 1995), 4A563
Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, Comput Methods Appl Mech Eng 127(1-4) 315-344 (Nov 1995), 4A564
Free vibration and stability analysis of shells by the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 53-82 (1996), 5A11
Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 19-51 (1996), 5A16
Stress-strain and failure analyses of composite pipe under torsion, J Pressure Vessel Tech 117(3) 273-278 (Aug 1995), 5A484
Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, Composite Struct 33(3) 135-142 (1995), 5A516
Efficient assumed strain element model with six dof per node for geometrically nonlinear shells, Int J Numer Methods Eng 38(24) 4101-4122 (Dec 1995), 5A519
Shell deformation states and the FEM: A benchmark study of cylindrical shells, Comput Methods Appl Mech Eng 128(1-2) 81-121 (Dec 1995), 5A520
Influence of support conditions on internal forces in single layer network shell (Polish), Inzynieria Budownictwo 52(11) 596-598 (1995), 6A488
Stress-based quadrilateral shear panel, Finite Elements Anal Des 21(3) 159-178 (Jan 1996), 7A44
Elastoplastic analysis of layered metal matrix composite cylinders - Part I: Theory, J Pressure Vessel Tech 118(1) 13-20 (Feb 1996), 7A592
Elastoplastic analysis of layered metal matrix composite cylinders - Part II: Numerical results, J Pressure Vessel Tech 118(1) 21-26 (Feb 1996), 7A593
Calculation of axisymmetrical thermoviscoelastoplastic state of the branched laminar shells allowing for the deformation of cross shear and rotation (Russian), Prikl Mekh (Appl Mech) 31(4) 33-40 (1995), 7T615
Postprocess method using displacement field of higher order laminated composite plate theory, AIAA J 34(2) 362-368 (Feb 1996), 7A644
Investigation of stresses in composite shells on the basis of methods of asymptotic synthesis due to various local actions (Russian), Mech of Composite Mat T31(6) 783-791 (Dec 1995), 8A497
Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), J Comput Struct Mech Appl 12(1) 69-75 (Feb 1995), 9A29
Finite element impact analysis of doubly-curved laminated composite shells, J Reinforced Plastics Composites 15(3) 322-342 (Mar 1996), 9A36
Modeling progressive damage in composites: A shear deformable element for ABAQUS, Composite Struct 34(2) 119-128 (1996), 9A77
Semi-analytical plate-beam super-element (Chinese), J Comput Struct Mech Appl 12(2) 170-177 (May 1995), 9A83
Implementation of a flat facet shell FE for applications in structural dynamics, Comput Struct 59(4) 657-663 (May 1996), 9A209
Analysis of combined shells of revolution using the method of spline function (Chinese), J Comput Struct Mech Appl 12(1) 76-79 (Feb 1995), 9T584
Postprocess method using a displacement field of higher-order shell theory, Composite Struct 34(2) 185-196 (1996), 9A595
Assumed stress C° quadrilateral-triangular plate elements by interrelated edge displacements, Int J Numer Methods Eng 39(6) 1041-1051 (Mar 1996), 9A606

Coupling of 2D and 3D composite shell elements in linear and nonlinear applications, Comput Methods Appl Mech Eng 129(3) 271-287 (Jan 1996), 9A607
Efficient 4-node 24 dof thick shell FE with 5-point quadrature, Eng Comput 12(8) 723-747 (Nov 1995), 9A608
Finite element applications to evaluate the stress and strain field in the vicinity of an imperfection in thin shells, Eng Trans 43(4) 545-552 (1995), 9A609
New approach to the analysis of a tubesheet for a U-tube heat exchanger, Int J Pressure Vessels Piping 67(2) 181-184 (Jul 1996), 9A610
Unstructured multigrid method for shells, Int J Numer Methods Eng 39(7) 1181-1197 (Apr 1996), 9A611
Nonlinear Theory of Shells through Variational Principles: From Elementary Algebra to Differential Geometry (Wiley, UK, 1995) 10R18
Analysis and optimum design of composite grid structures, J Composite Mat 30(4) 503-534 (1996), 10A592
Static analyses of beams and plates by spline collocation method, J Eng Mech 122(4) 375-378 (Apr 1996), 10A603
Element for static, vibration, and buckling analysis of thick laminated plates, Comput Struct 59(6) 1051-1058 (Jun 1996), 10A620
Adjustable refined strain field in degenerated shell elements, Finite Elements Anal Des 22(1) 85-91 (May 1996), 11A31
Computer-extended perturbation solution for the large deflection of a circular plate - Part I: Uniform loading with clamped edge, Quart J Mech Appl Math 49(2) 163-178 (May 1996), 11A509
Dynamic modeling of a composite plate: A mixed numerical and experimental approach, Composite Struct 34(2) 301-308 (1996), 11A516
C^0 Reissner-Mindlin multilayered plate elements including zig-zag and interlaminar stress continuity, Int J Numer Methods Eng 39(11) 1797-1820 (Jun 1996), 11A527
Direct and indirect methods in the theory of elastic plates, Math Mech Solids 1(2) 251-260 (Jun 1996), 11A528
Green's function applied to solution of Mindlin plates, Comput Struct 60(1) 41-48 (Jul 1996), 11A529
New off-BEM for analyzing plate and shallow shell bending, Comput Struct 60(2) 297-304 (Jul 1996), 11A530
Nonlinear FE analysis of a reinforced concrete cooling tower shell, Eng Comput 13(2/3/4) 26-40 (1996), 11A531
Simple and efficient mixed FE for axisymmetric shell analysis, Int J Numer Methods Eng 39(11) 1903-1914 (Jun 1996), 11A532
Strip distributed transfer function method for analysis of plates, Int J Numer Methods Eng 39(11) 1915-1932 (Jun 1996), 11A533
Curved laminated orthotropic axisymmetric element based upon Flugge thin shell theory, Comput Struct 60(3) 487-503 (Aug 1996), 12A35
Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, Composite Struct 34(4) 437-444 (1996), 12A571
Application of numerical Green's functions in the design of plates using symbolic computation, Comput Struct 60(5) 771-780 (Jul 1996), 12A599
Bending and stretching actions in shallow domes - Part 2: A comparative study of various boundary conditions, Thin-Walled Struct 26(2) 147-158 (1996), 12A600
Degenerated plate-shell elements with refined transverse shear strains, Comput Struct 60(6) 1079-1091 (Jul 1996), 12A601
Four-node finite shell element for the implementation of general hyperelastic 3D-elasticity at finite strains, Comput Methods Appl Mech Eng 130(1-2) 57-79 (Mar 1996), 12A602
Internal and boundary calculations of thin elastic bodies, J Appl Math Mech 59(6) 973-985 (1995), 12A603
A priori error estimations of hp-FE approximations for hierarchical models of plate- and shell-like structures, Comput Methods Appl Mech Eng 132(1-2) 135-177 (May 1996), 12A604
Strain-and-displacement-based variational method applied to geometrically nonlinear shells, Int J Numer Methods Eng 39(13) 2231-2248 (Jul 1996), 12A605
Triangular thick plate elements based on a hybrid-Trefftz approach, Comput Struct 60(6) 883-894 (Jul 1996), 12A606
Variable kinematic modeling of laminated composite plates, Int J Numer Methods Eng 39(13) 2283-2317 (Jul 1996), 12A607

260Z. Experimental techniques

Theoretical and experimental study of U-shaped trough shell of aqueduct, Asian J Struct Eng 1(2) 197-207 (1995), 2A477
Residual shear strength of fatigue cracked slender web panels, Thin-Walled Struct 24(2) 157-172 (1996), 5A604
Determination of all elastic constants of orthotropic plate specimens from group velocity data, Res Nondestructive Eval 7(1) 13-29 (1995), 6T693
New biaxial bending test on oval sandwich plates, Exp Tech 20(1) 27-30 (Feb 1996), 7A645
Bond and force transfer of composite material plates bonded to concrete, ACI Struct J 93(2) 208-217 (Apr 1996), 9A591
Punching shear of continuous flat reinforced concrete slabs, ACI Struct J 93(2) 218-228 (Apr 1996), 9A597
Aerodynamic testing of cylindrical shell in model wind tunnel (Polish), Inzynieria Budownictwo 53(5) 307-309 (1996), 10A241
Local stiffening effect of "double deck" bending strain gauges - Part 1, Strain 32(1) 13-22 (Feb 1996), 10A872
Localization of forces applied on thin structures: Regularization of inverse problem, Rev Francaise Mec 0(1) 49-55 (1996), 11A506
Dynamic modeling of a composite plate: A mixed numerical and experimental approach, Composite Struct 34(2) 301-308 (1996), 11A516
Strength and stiffness of fiber-reinforced plastic plates, Proc Inst Civil Eng Struct Build 116(2) 204-220 (May 1996), 11A518
Alternative lower bounds analysis of elastic thin shells of revolution, Eng Comput 13(2/3/4) 41-75 (1996), 11A534
Large-deflection and stress analysis of multilayered plates with induced-strain actuators, Smart Mat Struct 5(2) 140-164 (Apr 1996), 11A535

262. STRUCTURAL STABILITY (BUCKLING, POSTBUCKLING)

262A. General theory

Stabilite des Structures Elastiques - Stability of Elastic Structures - Mathematiques and Applications Series, Vol 18 (French) (Springer-Verlag, Berlin, 1995) 1R19
Microbuckle initiation in fiber composites: A FE study, J Mech Phys Solids 43(12) 1887-1918 (Dec 1995), 4A478
Theory of Stability of Continuous Elastic Structures (CRC Press, Boca Raton FL, 1995) 5R19
Stability problem for nonhomogeneous structures: Averaged description, Mech Solids 30(2) 124-131 (1995), 5A521
Stability of elastic bodies with non-monotone multi-valued boundary conditions of the quasi-differential type, J Elast 41(2) 137-149 (Nov 1995), 6A489
Resonant-triad instability of a pre-stressed incompressible elastic plate, J Elast 41(1) 13-37 (Oct 1995), 6A497
Influence of primary boundary conditions on the buckling of shallow cylindrical shells, J Construct Steel Res 36(1) 53-75 (1996), 6A500
Equilibrium paths of polygonally damaging structures - Part One: The nonsmooth nonconvex stability problem, Int J Damage Mech 5(1) 16-41 (Jan 1996), 7A646
Equilibrium paths of polygonally damaging structures - Part Two: 1D example for nonsmooth damage and localization, Int J Damage Mech 5(1) 42-67 (Jan 1996), 7A647
Three-dimensional problem on stability of a number of fibers perpendicular to free matrix boundary, Prikl Mekh (Appl Mech) 30(12) 3-11 (1994), 7A648
Summation Theorems in Structural Stability (Springer-Verlag, Wien, 1995) 8N22
Stability problems of composite materials under compression along the interlayer cracks: Periodic system of parallel macrocracks, Prikl Mekh (Appl Mech) 31(7) 55-62 (1995), 9A612
Alternative approach to optimization of structures prone to instability, Struct Optim 11(2) 88-94 (Apr 1996), 11A716
Bifurcation of orthotropic solids, J Appl Mech 63(2) 317-320 (Jun 1996), 12A608

262B. Nonlinear and finite deformation theory

Beam buckling as a coexistence of phases phenomenon, Eur J Mech A 14(4) 589-604 (1995), 1A635
Existence theory for nonlinear elasticity that allows for cavitation, Arch Rational Mech Anal 131(1) 1-66 (1995), 1A636
Theory of Stability of Continuous Elastic Structures (CRC Press, Boca Raton FL, 1995) 5R19
Effective four node degenerated shell element for geometrically nonlinear analysis, Thin-Walled Struct 24(3) 261-283 (1996), 5A32
Torsional buckling of outstands in longitudinally stiffened panels, Thin-Walled Struct 24(3) 211-229 (1996), 5A535
Dynamic elastic instability of long circular cylindrical shells under pure bending, Thin-Walled Struct 24(2) 123-133 (1996), 5A536
Convex models of uncertainty for small initial imperfections of nonlinear structures, Z Angew Math Mech 75(12) 901-908 (1995), 6A490
Spatial stability analysis of thin-walled space frames, Int J Numer Methods Eng 39(3) 499-525 (Feb 1996), 7A649
Compound buckling of a strut with a lateral elastic support at center, Mech Res Commun 23(1) 29-34 (Feb 1996), 7T651
Inelastic buckling of tapered members with accumulated strain, Struct Eng and Mech 3(6) 611-622 (Nov 1995), 8A498
Nonlinear stability of a defective cylindrical shell, Mech Res Commun 23(2) 151-164 (Apr 1996), 8A499
Global bifurcation of an elastive conducting rod in a magnetic field, SIAM J Math Anal 27(2) 528-542 (Mar 1996), 9A613
Nonlinear and postbuckling responses of curved composite panels with cutouts, Composite Struct 34(2) 213-240 (1996), 9A614
Lagrangian method for thermal postbuckling analysis of laminated panels (Chinese), J Dalian Univ Tech 36(2) 145-151 (Mar 1996), 9A1278
Global analysis of secondary bifurcation of an elastic bar, Acta Mech Sinica 11(4) 327-336 (1995), 10A621
Buckling of annular plates elastically restrained against rotation along edges, Thin-Walled Struct 25(3) 231-246 (1996), 10A629
Lateral stabilization by steel sheeting of structural members, Thin-Walled Struct 25(3) 207-217 (1996), 10A902
Postbuckling analysis of cylindrical shells under combined external liquid pressure and axial compression, Thin-Walled Struct 25(4) 297-317 (1996), 11A539
Design derivatives for optimization with a critical point constraint, Struct Optim 11(2) 120-127 (Apr 1996), 11A718
Simple model for the fire resistance of axially loaded members: Comparison with experimental results, J Construct Steel Res 37(3) 175-204 (1996), 11A769
Nonlinear dynamic buckling of a simple model via the Liapunov direct method, J Sound Vib 193(5) 1091-1097 (Jun 1996), 12A609
Lateral distortional buckling of monosymmetric I-beams under distributed vertical load, Thin-Walled Struct 26(2) 123-145 (1996), 12A614
Crashworthiness of automotive steel midrails: Thickness and material sensitivity, Thin-Walled Struct 26(2) 83-103 (1996), 12A632

262C. Postbuckling theory

Thermal postbuckling analysis of moderately thick plates, Appl Math Mech 16(5) 475-484 (May 1995), 1A637
Post buckling analysis of nonfrictional contact problems using linear complementarity formulation, Comput Struct 57(5) 783-794 (Dec 1995), 2A484
Pre- and postbuckling behavior of mechanical structures in terms of phase transitions, Int J Eng Sci 33(13) 1987-2000 (Oct 1995), 2A485
Post-bifurcation and imperfection sensitivity of space trusses with many simultaneously buckling bars and a strongly nonlinear prebuckling solution, Eur J Mech A 14(5) 721-745 (1995), 3A547
Postbuckling analysis of circular cylindrical shell under combined loads, Comput Struct 58(1) 21-26 (Jan 1996), 3A548
Postbuckling analysis of composite laminated plates on two-parameter elastic foundations, Int J Mech Sci 37(12) 1307-1316 (Dec 1995), 3A549
Semi-energy and the lower bound methods to the post-buckling of plate, Comput Struct 58(1) 107-113 (Jan 1996), 3A550
Plastic post-buckling of a simply supported column with a solid rectangular cross-section, Appl Math Mech 16(8) 713-722 (Aug 1995), 4A565
Tracing postbuckling paths of structures containing multi-loops, Int J Numer Methods Eng 38(23) 4053-4075 (Dec 1995), 4A566
Finite element analysis of configurational stability and finite growth of buckling driven delamination, J Mech Phys Solids 43(12) 1983-2021 (Dec 1995), 4A691
Postbuckling analysis of thin plates by a hybrid Trefftz FEM, Comput Methods Appl Mech Eng 128(1-2) 123-136 (Dec 1995), 5A522
Postbuckling of composite laminates under compressive load and temperature, Comput Methods Appl Mech Eng 128(1-2) 49-80 (Dec 1995), 5A523
Postbuckling performance of sandwich and composite shells with in-plane shear nonlinearity and unsymmetric layers, Comput Methods Appl Mech Eng 128(1-2) 25-47 (Dec 1995), 5A524
Post-buckling analysis of imperfect laminated plates under combined axial and thermal loads, Comput Mech 17(4) 226-233 (Jan 1996), 7A650
Analysis of the post-buckling of laminated plates of symmetric cross-ply, Appl Math Mech 16(12) 1221-1230 (Dec 1995), 8A500
Problems about elastic-plastic post-buckling, Int J Solids Struct 33(10) 1519-1533 (Apr 1996), 8A501
Thermomechanical postbuckling of imperfect moderately thick plates on two-parameter elastic foundations, Struct Eng and Mech 4(2) 149-162 (Mar 1996), 8A502
Post-buckling analysis with frictional contacts combining complementarity relations and an arc-length method, Int J Numer Methods Eng 39(7) 1161-1180 (Apr 1996), 9A615
Sensitivity of post-critical states to changes in design parameters, Int J Solids Struct 33(15) 2177-2192 (Jun 1996), 9A616
Thermal post-buckling analysis of circular plate based on displacement type control equation (Chinese), J Comput Struct Mech Appl 13(1) 99-105 (Feb 1996), 9A630
Influence of local postbuckling behavior on bending of thin-walled beams, Thin-Walled Struct 25(3) 219-230 (1996), 10A622
Stability of a rigid sphere supported by a thin elastic column, Eur J Mech A 15(2) 337-350 (1996), 10A627
Buckling and postbuckling of stiffened elements with uncertainty, Thin-Walled Struct 26(1) 1-17 (1996), 11A536
Elastic postbuckling with nonlinear constraints, Int J Solids Struct 33(17) 2417-2436 (Jul 1996), 11A537
Empirical investigation on buckling and post-buckling behavior of cell liners, Nucl Eng Des 162(1) 117-124 (Mar 1996), 11A538
Postbuckling analysis of cylindrical shells under combined external liquid pressure and axial compression, Thin-Walled Struct 25(4) 297-317 (1996), 11A539
Stability of orthogonally intersecting equal-leg angle cross-bracing systems, Mech Struct Machines 24(2) 257-279 (1996), 11A540
Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, Composite Struct 34(2) 325-338 (1996), 11A702
Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, Acta Mech Solida Sinica 9(2) 184-188 (1996), 12A610
Nonstandard models for thin-walled beams with a view to applications, J Appl Mech 63(2) 399-403 (Jun 1996), 12A611
Post-buckling of moderately thick elliptical plates, Comput Struct 60(3) 481-486 (Aug 1996), 12A612
Buckling and postbuckling of composite panels with cutouts subjected to combined loads, Finite Elements Anal Des 22(2) 163-185 (Jun 1996), 12A619
Nonlinear problems of thermal postbuckling of a beam, J Thermal Stresses 19(4) 359-367 (Jun 1996), 12A1281

262D. Imperfection sensitivity

Plane-stain incremental response and sensitivity of stretched plates, Eur J Mech A 14(4) 553-575 (1995), 1A610
Post-bifurcation and imperfection sensitivity of space trusses with many simultaneously buckling bars and a strongly nonlinear prebuckling solution, Eur J Mech A 14(5) 721-745 (1995), 3A547
Higher-order sensitivity to imperfections in bifurcation buckling analysis, Int J Solids Struct 33(4) 511-520 (Feb 1996), 4A567
Reliability of shells via Koiter formulas, Thin-Walled Struct 24(2) 173-187 (1996), 5A703
Convex models of uncertainty for small initial imperfections of nonlinear structures, Z Angew Math Mech 75(12) 901-908 (1995), 6A490
Proposal of a mathematical model of compressed bars for analysis of limit bearing capacity of true bar structures (Polish), Inzynieria Budownictwo 52(12) 679-683 (1995), 6A491
Buckling of thin shells: Recent advances and trends, Appl Mech Rev 49(4) 263-274 (Apr 1996), 6A498
Nonlinear stability of a defective cylindrical shell, Mech Res Commun 23(2) 151-164 (Apr 1996), 8A499
Collapse of dented cylinders under external pressure, Int J Mech Sci 38(5) 557-578 (May 1996), 8A503
Reliability of structures subject to normally distributed initial imperfections, Comput Struct 59(3) 463-469 (May 1996), 8A504
Nonlinear model for stability analysis of reticulated shallow shells with imperfections, Int J Space Struct 10(4) 215-230 (1995), 10A632
Buckling and postbuckling of stiffened elements with uncertainty, Thin-Walled Struct 26(1) 1-17 (1996), 11A536
Postbuckling analysis of cylindrical shells under combined external liquid pressure and axial compression, Thin-Walled Struct 25(4) 297-317 (1996), 11A539

262E. Columns and beams

Analyse Des Structures Et Milieux Continus: Mecanique des structures (French) (Presses Polytech Romandes, Lausanne, 1994) 1R12
Beam buckling as a coexistence of phases phenomenon, Eur J Mech A 14(4) 589-604 (1995), 1A635
Buckling under axial compression of thin-walled composite beams exhibiting extension-twist coupling, Composite Struct 31(3) 203-212 (1995), 1A638
Classes of solutions in the problem of stability analysis in bars with varying cross-section and axial distributed loading, Int J Solids Struct 32(21) 3229-3236 (Nov 1995), 1A639
Deformation of a rod of growing biological material under longitudinal compression, J Appl Math Mech 59(1) 139-146 (1995), 1A640
Dynamic stability of a rod with an intermediate spring support subject to subtangential follower forces, Comput Methods Appl Mech Eng 125(1-4) 141-150 (Sep 1995), 1A641
Experimental study of buckling and post-buckling of laterally constrained rods, J Energy Resources Tech 117(2) 115-124 (Jun 1995), 1A642
Formulation of moment-thrust-curvature relations for locally buckled unstiffened steel box stub-columns (Japanese), Proc JSCE 519(I-32) 79-87 (Jul 1995), 1A643
Limit slendernesses of axially compressed columns, Inzynieria Budownictwo 52(12) 427-430 (7-8 1995), 1A644
Simplified model for buckling mechanism in lattice structures, Comput Struct 57(4) 745-750 (Nov 1995), 1A645
Stability analysis of bars with varying cross-section, Int J Solids Struct 32(21) 3217-3228 (Nov 1995), 1A646
Stability behavior of uniform columns on a class of two parameter elastic foundation, Comput Struct 57(3) 551-553 (Nov 1995), 1A647
Investigation into upheaval buckling of buried pipelines - I: Experimental apparatus and some observations, Int J Mech Sci 37(9) 943-963 (Sep 1995), 2A486
Investigation into upheaval buckling of buried pipelines - II: Theory and analysis of experimental observations, Int J Mech Sci 37(9) 965-983 (Sep 1995), 2A487
Theoretical and experimental study on buckling of built-up columns, J Eng Mech 121(10) 1098-1105 (Oct 1995), 2A488
Flexural vibrations and stability of beams with variable parameters (Russian), Prikl Mekh (Appl Mech) 30(9) 75-81 (1994), 3A120
Buckling loads for built-up columns with stay plates, J Eng Mech 121(11) 1200-1208 (Nov 1995), 3A551
Lateral-buckling tests of cold-formed RHS beams, J Struct Eng 121(11) 1565-1573 (Nov 1995), 3A552
Interactive buckling of thin-walled open elastic beam-columns with intermediate stiffeners, Int J Solids Struct 33(3) 315-330 (Jan 1996), 4A568
Local buckling of cold formed steel sheeting in profiled composite beams at service loads, Struct Eng Review 7(4) 289-300 (Nov 1995), 4A569
Secondary buckling of an elastic strut under axial compression, Z Angew Math Mech 75(10) 741-751 (1995), 4A570
Secondary buckling of an elastic strut under axial compression, Z Angew Math Mech 75(10) 741-751 (1995), 4A570
Theory of Stability of Continuous Elastic Structures (CRC Press, Boca Raton FL, 1995) 5R19
Stability of thin-walled pultruded structural members by the FEM, Thin-Walled Struct 24(1) 1-18 (1996), 5A37
Story stability and minimum bracing in RC framed structures: A general approach, ACI Struct J 92(6) 735-744 (Dec 1995), 5A714
Beam-column modeling, J Eng Mech 121(12) 1284-1291 (Dec 1995), 6A469
Bifurcation and postbifurcation of rods, J Theor Appl Mech 34(1) 91-100 (1996), 6A492
Wagner term in flexural-torsional buckling of thin-walled open-profile columns, Eng Struct 18(2) 125-132 (Feb 1996), 6A493
Compound buckling of a strut with a lateral elastic support at center, Mech Res Commun 23(1) 29-34 (Feb 1996), 7T651
Experimental verification of the generalized beam theory applied to interactive buckling problems, Thin-Walled Struct 25(1) 61-79 (1996), 7A652
Flutter and divergence instability of nonconservative beams and plates, Int J Solids Struct 33(9) 1355-1367 (Apr 1996), 7A653
Influence of geometrical tolerances on reliabilty of columns (French), Rev Francaise Mec 0(4) 309-316 (1995), 7A654
Possibility of nondestructive determination of critical load of the rod-type structures, Prikl Mekh (Appl Mech) 30(12) 80-85 (1994), 7A655
Stability of elastic bars on uncertain foundations using a convex model, Int J Solids Struct 33(9) 1257-1269 (Apr 1996), 7A656
Almost sure stability of a viscoelastic rod subjected to a random stationary longitudinal force, Mech Solids 30(4) 154-160 (1995), 7A679
Prototype test on x-bracing panels using cold-formed lipped angles, Thin-Walled Struct 25(1) 31-46 (1996), 7A957
Inelastic buckling of tapered members with accumulated strain, Struct Eng and Mech 3(6) 611-622 (Nov 1995), 8A498
Elastic distortional buckling of overhanging beams, Struct Eng and Mech 4(1) 37-47 (Jan 1996), 8A505
Mechanics of kinking and buckling of plastic board drains, Struct Eng and Mech 3(5) 429-443 (Sep 1995), 8A506
Buckling instabilities of thick elastic beams subjected to axial stresses, Comput Struct 59(5) 859-868 (Jun 1996), 9A617
Influence of local post-buckling behavior on bending of thin-walled elastic beams with central intermediate stiffeners, Eng Trans 43(3) 383-396 (1995), 9A618
Interactive elastic buckling of thin-walled closed orthotropic beam-columns, Eng Trans 43(4) 571-590 (1995), 9A619
Interactive elastic buckling of thin-walled open orthotropic beam-columns, Eng Trans 43(4) 591-602 (1995), 9A620
Local buckling of pultruded FRP beams: Analysis and design, J Reinforced Plastics Composites 15(3) 283-294 (Mar 1996), 9A621
Principles of localized buckling for a strut on an elastoplastic foundation, J Appl Mech 63(1) 234-239 (Mar 1996), 9A622
Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, AIAA J 34(5) 1064-1069 (May 1996), 10A198
Global analysis of secondary bifurcation of an elastic bar, Acta Mech Sinica 11(4) 327-336 (1995), 10A621
Influence of local postbuckling behavior on bending of thin-walled beams, Thin-Walled Struct 25(3) 219-230 (1996), 10A622
Elastic instability of a beam resting on an elastic foundation subjected to a partially tangential force, Comput Struct 59(6) 983-988 (Jun 1996), 10A623
Elastic response of columns after sudden loss of bracing, J Eng Mech 122(4) 383-384 (Apr 1996), 10A624
Inelastic local and lateral buckling in design codes, J Struct Eng 122(4) 374-382 (Apr 1996), 10A625
Prediction of bending collapse behaviors of thin-walled open section beams, Thin-Walled Struct 25(3) 185-206 (1996), 10A626
Stability of a rigid sphere supported by a thin elastic column, Eur J Mech A 15(2) 337-350 (1996), 10A627
Vibration and stability of a nonuniform double-beam subjected to follower forces, Comput Struct 59(6) 1033-1038 (Jun 1996), 10A628
Mechanics of Materials (Wiley, New York, 1996) 11R24
Initial post-buckling behavior of a finite beam on an elastic foundation, Int J Non-Linear Mech 31(3) 313-328 (May 1996), 11A136
Boundary layer transition induced by a von Karman vortex street wake, Proc Inst Mech Eng J Aerospace Eng 210(G2) 167-179 (1996), 11A541
Considerations concerning the influence of cross-section type on critical-load erosion in compression members, Mec Appl 40(2-3) 409-422 (Jun 1995), 11T542
Pillar of best efficiency, J Elast 42(1) 79-89 (Jan 1996), 11A543
Stability of gyroelastic beams, AIAA J 34(6) 1270-1278 (Jun 1996), 11A544
Simple model for the fire resistance of axially loaded members: Comparison with experimental results, J Construct Steel Res 37(3) 175-204 (1996), 11A769
Stability of cold formed purlins braced by steel sheeting, Thin-Walled Struct 25(4) 247-268 (1996), 11A775
Advanced Mechanics of Structures (Marcel Dekker, New York, 1996) 12R13
Deflection of a composite beam-column: Cantilever beam-column, Facta Univ Mech Auto Control Robotic 1(5) 579-588 (1995), 12A613
Lateral distortional buckling of monosymmetric I-beams under distributed vertical load, Thin-Walled Struct 26(2) 123-145 (1996), 12A614
Parametric instability of a symmetric sandwich beam with higher order effects, Comput Struct 60(5) 817-824 (Jul 1996), 12A615
Rational model for the distortional buckling of tapered members, Comput Methods Appl Mech Eng 130(3-4) 263-277 (Apr 1996), 12A616
Numerical investigation of laminar-turbulent transition on re-entry capsules, J Spacecraft Rockets 33(3) 313-318 (Jun 1996), 12A867

262F. Rings and arches

Prebuckling deformations and flexural-torsional buckling of arches, J Struct Eng 121(9) 1313-1322 (Sep 1995), 1A648
In-plane vibration and stability of shallow circular arches subjected to axial forces, Int J Solids Struct 33(4) 469-482 (Feb 1996), 4A279
Proposal of a mathematical model of compressed bars for analysis of limit bearing capacity of true bar structures (Polish), Inzynieria Budownictwo 52(12) 679-683 (1995), 6A491
Buckling of encased elliptic thin ring, J Eng Mech 121(12) 1325-1329 (Dec 1995), 6A494
Finite element study on bifurcation and limit point buckling of elastic-plastic arches, Comput Struct 60(2) 189-196 (Jul 1996), 11A545

262G. Framed structures

Stabilite des Structures Elastiques - Stability of Elastic Structures - Mathematiques and Applications Series, Vol 18 (French) (Springer-Verlag, Berlin, 1995) 1R19
Design of steel frames with slender joint-panels, J Construct Steel Res 35(2) 165-187 (1995), 1A649
Element behavior in post-critical plane frame analysis, Comput Methods Appl Mech Eng 125(1-4) 319-343 (Sep 1995), 1A650
Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), Proc JSCE 519(I-32) 89-99 (Jul 1995), 1A651
Generalized topology design of structures with a buckling load criterion, Struct Optim 10(2) 71-78 (Oct 1995), 3A758
Stability and Optimization of Flexible Space Structures (Birkhauser, Switzerland, 1995) 4R12
Investigation of truss topology optimization under local buckling constraints (Chinese), J Dalian Univ Tech 35(6) 775-782 (1995), 7A904
Analysis of natural frequency and buckling on orthogonal and ortho-laid space truss by Spline-Galerkin method (Chinese), J Comput Struct Mech Appl 12(1) 60-68 (Feb 1995), 9T110
Nonlinear analysis of imperfect steel space trusses, Arch Civil Eng 41(4) 509-523 (1995), 9A623
Overall stability and second-order analyses of tall building tubular structures with stepped cross-sections by FEMOL (Chinese), J Comput Struct Mech Appl 12(4) 417-428 (Nov 1995), 9A624
Exact stability model of space frames, Comput Struct 60(1) 59-71 (Jul 1996), 11A546
Difficulties in truss topology optimization with stress and local buckling constraints, Struct Optim 11(2) 134-136 (Apr 1996), 11A721
Structural Stability and Design - Proc of Int Conf, Sydney, Oct-Nov 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N36
Accurate calculation of elastic buckling loads for space frames built up of uniform beams with open thin-walled cross-section, Int J Numer Methods Eng 39(13) 2319-2333 (Jul 1996), 12A617

262H. Plates

Bi-axial buckling behavior of composite rectangular plates, Composite Struct 31(4) 247-252 (1995), 1A652
Buckling design of symmetrically laminated plates using lamination parameters, Comput Struct 57(4) 643-649 (Nov 1995), 1A653
Buckling of laminated plates with adhesive joints, J Composite Mat 29(12) 1565-1580 (1995), 1A654
Buckling of shear deformable plates using the p-version of the FEM, Comput Struct 57(3) 527-532 (Nov 1995), 1A655
Differential quadrature for buckling analysis of laminated plates, Comput Struct 57(4) 715-719 (Nov 1995), 1A656
Instability of cylindrical panels under combined static and dynamic loads, Int J Pressure Vessels Piping 65(2) 163-169 (1996), 1A657
Numerical identification of secondary buckling phenomena of elastic rectangular plate under pure bending (Japanese), Proc JSCE 519(I-32) 67-78 (Jul 1995), 1A658
Problem of lateral buckling of cantilever plates, Z Angew Math Mech 75(8) 615-621 (1995), 1A659
Thermal post-buckling analysis of imperfect laminated plates, Comput Struct 57(3) 533-540 (Nov 1995), 1A660
Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, J Thermal Stresses 18(4) 465-482 (Aug 1995), 1A661
Vibration, buckling and dynamic stability of a non-uniform rectangular cantilever plate with thermal gradient resting on a Pasternak foundation (Japanese), Proc JSCE 519(I-32) 175-184 (Jul 1995), 1A662
Allowance for prebuckling deformations in buckling load relationship between Mindlin and Kirchhoff simply supported plates of general polygonal shape, Eng Struct 17(6) 413-418 (Jul 1995), 2A489
Axisymmetric buckling parameters in flexed plates as determined by caustics, Eng Fracture Mech 52(4) 583-597 (Nov 1995), 2A490
Buckling of a thin elastic plate, Appl Math letters 8(3) 69-74 (May 1995), 2A491
Buckling of skew Mindlin plates subjected to in-plane shear loadings, Int J Mech Sci 37(10) 1089-1101 (Oct 1995), 2A492
Local stability of filled and encased steel sections, J Struct Eng 121(10) 1382-1388 (Oct 1995), 2A493
Postbuckling analysis of moderately thick rectangular plates on two-parameter elastic foundations, Eng Struct 17(7) 523-529 (Aug 1995), 2A494
Postbuckling analysis of orthotropic rectangular plates on nonlinear elastic foundations, Eng Struct 17(6) 407-412 (Jul 1995), 2A495
Seminumerical method for buckling of sector plates, Comput Struct 57(5) 847-854 (Dec 1995), 2A496
Fatigue shear strength of slender web plates, J Struct Eng 121(10) 1396-1401 (Oct 1995), 2A578
Application of the FEM to postbuckling analysis of laminated plates, AIAA J 33(12) 2379-2385 (Dec 1995), 4A13
Sinusoidal stiffness matrix for buckling and vibration analyses of rectangular Mindlin plates, J Sound Vib 187(3) 435-449 (Nov 1995), 4A172
Buckling analysis of general triangular anisotropic plates using polynomials, AIAA J 33(12) 2414-2417 (Dec 1995), 4A571
Buckling of rectangular symmetric angle-ply laminated plates determined by eigensensitivity analysis, AIAA J 33(12) 2406-2413 (Dec 1995), 4A572
Effect of localized axisymmetric damages on the buckling of circular plates, Comput Struct 58(3) 651-654 (Feb 1996), 4A573
Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, Composite Struct 33(1) 7-15 (1995), 4A574
Stability of laminated composite plates subjected to various types of in-plane loadings, Int J Mech Sci 38(2) 191-202 (Feb 1996), 4A575
Thermal post-buckling of linearly tapered moderately thick isotropic circular plates, Comput Struct 58(3) 655-658 (Feb 1996), 4A576
Delamination buckling and growth of composite laminated plates with transverse shear deformation, J Composite Mat 29(15) 2047-2068 (1995), 4A726
Ultimate strength of girders with trapezoidally corrugated webs under patch loading, Thin-Walled Struct 24(2) 135-156 (1996), 5A501
Buckling and postbuckling of circular plates containing concentric penny-shaped delaminations, Comput Struct 58(5) 1045-1054 (Mar 1996), 5A525
Buckling of orthotropic plates with free and rotationally restrained unloaded edges, Thin-Walled Struct 24(1) 83-96 (1996), 5A526
Compressive strength of rectangular plates under biaxial load and lateral pressure, Thin-Walled Struct 24(3) 231-259 (1996), 5A527
Elastic buckling of a circular disk due to internal membrane forces, J Appl Mech 62(3) 813-816 (Sep 1995), 5T528
Elastic stability of partially-restrained plates under compression and in-plane bending, J Construct Steel Res 35(3) 339-360 (1995), 5A529
Influence of large deflections on the dynamic stability of nonlinear viscoelastic plates, Acta Mech 113(1-4) 215-231 (1995), 5A537
Buckling and vibration of thick laminates on Pasternak foundations, J Eng Mech 122(1) 54-63 (Jan 1996), 6A147
Analysis of stability on elastic plates with initial imperfections, Appl Math Mech 16(10) 951-959 (Oct 1995), 6A495
Buckling optimization of symmetrically laminated plates with various geometries and end conditions, Composites Sci Tech 55(3) 277-285 (1995), 6A496
Resonant-triad instability of a pre-stressed incompressible elastic plate, J Elast 41(1) 13-37 (Oct 1995), 6A497
Optimal orientation of orthotropic materials for plates designed against buckling, Struct Optim 10(3-4) 191-196 (Dec 1995), 6A720
Specialized composite plate element for problems of delamination buckling and growth, Composite Struct 34(1) 43-53 (1996), 7A43
Flutter and divergence instability of nonconservative beams and plates, Int J Solids Struct 33(9) 1355-1367 (Apr 1996), 7A653
Asymmetric buckling of layered orthotropic circular and annular plates of varying thickness using a computationally economic semianalytical FE approach, Comput Struct 59(1) 21-33 (Apr 1996), 7A657
Collapse strength of rectangular plates under transverse compression, J Construct Steel Res 36(3) 215-234 (1996), 7A658
Elastic local buckling of steel plates in composite steel-concrete members, Eng Struct 18(3) 193-200 (Mar 1996), 7A659
Experiments on inextensional collapse of circular paper disks including the influence of holes, Thin-Walled Struct 25(1) 47-60 (1996), 7A660
Local buckling of thin steel plates in composite construction: Experimental and theoretical study, Proc Inst Civl Eng Struct Build 110(4) 426-440 (Nov 1995), 7A661
Stability of a plate heated by the heat source, Prikl Mekh (Appl Mech) 31(1) 79-86 (1995), 7A662

Stability of laminated plates using finite strip method based on a higher-order plate theory, Composite Struct 34(1) 65-76 (1996), 7A663
Influence of boundary conditions on the stability of a periodically stiffened compressed plate, Mech Solids 30(4) 146-153 (1995), 7A673
Static and dynamic behavior of square plates with inhomogeneity subjected to non-uniform edge loading: Compression and tension, Struct Eng and Mech 4(2) 163-176 (Mar 1996), 8A19
Refined theory for vibrations and buckling of laminated isotropic annular plates, Int J Mech Sci 38(5) 539-555 (May 1996), 8A117
Vibration and stability analyses of thick anisotropic composite plates by finite strip method, Struct Eng and Mech 3(1) 49-60 (Jan 1995), 8A120
Thermomechanical postbuckling of imperfect moderately thick plates on two-parameter elastic foundations, Struct Eng and Mech 4(2) 149-162 (Mar 1996), 8A502
Elastic buckling of multilayered anisotropic plates, J Mech Phys Solids 44(3) 389-411 (Mar 1996), 8A507
Homogeneous nucleation of a solid-solid dilatational phase transformation, Int J Solids Struct 33(13) 1903-1919 (May 1996), 8A508
Influence of interface layer on microstructural stresses in mortar, Int J Numer Anal Methods Geomech 20(3) 215-228 (Mar 1996), 8A509
Response of unsymmetrical laminates to simple applied forces, Mech Composite Mat Struct 3(1) 65-80 (Mar 1996), 8A510
Vibrations and buckling of clamped plates of regular polygonal shape with rounded corners, J Sound Vib 190(5) 847-851 (Mar 1996), 8A511
Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, Struct Eng and Mech 3(3) 229-244 (May 1995), 8A521
Dynamic stiffness analysis of laminated composite plates, Thin-Walled Struct 25(2) 109-133 (1996), 9A593
Influence of continuity and aspect-ratio on the buckling of skew plates and plate assemblies, Int J Solids Struct 33(15) 2133-2159 (Jun 1996), 9A625
Liapunov's stability of clamped orthotropic round plate under radial axisymmetrical impact load, Appl Math Mech 17(2) 149-153 (Feb 1996), 9A626
Note on finite strip buckling analysis of composite plate structures, Composite Struct 34(2) 163-168 (1996), 9A627
Refined method of geometric stiffness matrix for analysis of thin plate stability (Chinese), J Dalian Univ Tech 36(2) 141-144 (Mar 1996), 9A628
Shear buckling coefficients of plate girder web panels, Comput Struct 59(5) 789-795 (Jun 1996), 9A629
Thermal post-buckling analysis of circular plate based on displacement type control equation (Chinese), J Comput Struct Mech Appl 13(1) 99-105 (Feb 1996), 9A630
Lagrangian method for thermal postbuckling analysis of laminated panels (Chinese), J Dalian Univ Tech 36(2) 145-151 (Mar 1996), 9A1278
Buckling of annular plates elastically restrained against rotation along edges, Thin-Walled Struct 25(3) 231-246 (1996), 10A629
Effective stiffness of slender steel sections for deflection calculations, Thin-Walled Struct 25(3) 171-183 (1996), 10A630
Growth behavior of internal delaminations in composite beam-plates under compression: Effect of the end conditions, Int J Fracture 75(1) 49-67 (1995), 10A795
Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, Mech Solids 30(5) 157-163 (1995), 10A877
Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), Proc JSCE 537(I-35) 53-60 (Apr 1996), 11A118
Buckling and postbuckling of stiffened elements with uncertainty, Thin-Walled Struct 26(1) 1-17 (1996), 11A536
Buckling and postbuckling of composite panels with cutouts subjected to combined edge shear and temperature change, Comput Struct 60(2) 203-222 (Jul 1996), 11A547
Buckling of tapered circular plates: Allowances for effects of shear and radial deformation, Mech Struct Machines 24(2) 135-153 (1996), 11A548
Static and dynamic elastic behavior of damaged plates subjected to local inplane loads, Marine Struct 9(8) 811-818 (1996), 11A549
Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, Composite Struct 34(2) 325-338 (1996), 11A702
Effect of Poisson's ratio on the fundamental frequency of transverse vibration and buckling load of circular plates with variable profile, Appl Acoust 47(3) 263-273 (1996), 12A160
Optimal design of internal ring support for rectangular plates against vibration or buckling, J Sound Vib 193(2) 545-554 (Jun 1996), 12A166
Simple model of a stiffened shell-type structure for an investigation into the vibration-buckling correlation, J Appl Mech 63(2) 517-522 (Jun 1996), 12A174
Analytical buckling solutions for Mindlin plates involving free edges, Int J Mech Sci 38(10) 1127-1138 (Oct 1996), 12A618
Buckling and postbuckling of composite panels with cutouts subjected to combined loads, Finite Elements Anal Des 22(2) 163-185 (Jun 1996), 12A619
Elastic buckling of plates with eccentrically positioned rectangular perforations, Int J Mech Sci 38(8-9) 825-838 (Sep 1996), 12A620
Influence of the transverse shear deformation on stochastic instability of isotropic plates, Facta Univ Mech Auto Control Robotic 1(5) 605-612 (1995), 12A621
Local buckling of stiffened plates in offshore structures, J Construct Steel Res 38(1) 41-59 (1996), 12A622
Engineering analysis of buckling of delaminated beam plates, Composite Struct 34(4) 397-407 (1996), 12A628
Design methods for profiled steel decks with intermediate stiffeners, J Construct Steel Res 38(1) 61-88 (1996), 12A848

262I. Shells

Buckling and vibration of multilayer orthotropic composite shells using a simple higher-order layerwise theory, Int J Solids Struct 32(23) 3479-3497 (Dec 1995), 1A663
Dynamic inelastic response and buckling of metal matrix composite infinitely wide plates due to thermal shocks, Mech Composite Mat Struct 2(3) 257-271 (Sep 1995), 1A664
Interlaminar failure and buckling of double-curved laminated composite shells, Mech of Composite Mat T31(3) 330-340 (Jun 1995), 1A665
Modeling of delamination buckling in composite cylindrical shells with a new higher-order theory, Composites Sci Tech 54(2) 223-232 (1995), 1A666
Singular perturbation for the buckling of a truncated shallow spherical shell with the large geometrical parameter, Appl Math Mech 16(5) 461-474 (May 1995), 1A667
Stability of cylindrical shells joined at an angle under the action of a uniform external pressure, J Appl Math Mech 59(1) 129-137 (1995), 1A668
Buckling and postbuckling of spherical shells with apical cutout under ring load, AIAA J 33(9) 1728-1733 (Sep 1995), 2A497
Buckling of moderately thick composite cylindrical shells under destabilizing loads, J Thermoplastic Composite Mat 8(4) 365-374 (Oct 1995), 2A498
Buckling of truncated conical shells based on improved stability equations, Asian J Struct Eng 1(2) 129-148 (1995), 2A499
Eccentricity factor in the progressive crushing of tubes, Int J Solids Struct 32(24) 3589-3602 (Dec 1995), 2A500
Stability of complete circular and non-circular toroidal shells, Proc Inst Mech Eng C 209(C4) 245-255 (1995), 2A501
Boron-aluminium shells under hydrostatic pressure, Composites Sci Tech 55(1) 25-32 (1995), 3A512
Buckling of thick orthotropic cylindrical shells under combined external pressure and axial compression, AIAA J 33(10) 1946-1953 (Oct 1995), 3A553
Criteria of dynamic loss of the shell stability (Russian), Prikl Mekh (Appl Mech) 30(10) 56-60 (1994), 3A554
Delamination buckling of a short orthotropic tube under axial compression, Comput Struct 58(1) 173-182 (Jan 1996), 3A555
Effect of orthotropy on the stability of nearly cylindrical shells of revolution, Mech Solids 30(1) 179-185 (1995), 3A556
Quick optimum buckling design of axially compressed, fiber composite cylindrical shells, AIAA J 33(10) 1993-1995 (Oct 1995), 3T557
Dynamic interactive buckling of ring stiffened composite shells, AIAA J 33(10) 1954-1962 (Oct 1995), 3A559
One method of processing of experimental data obtained under the test of cylindrical shells for stability under axial compression (Russian), Prikl Mekh (Appl Mech) 30(10) 45-50 (1994), 3A563
Stability and Optimization of Flexible Space Structures (Birkhauser, Switzerland, 1995) 4R12
Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, Composite Struct 33(1) 7-15 (1995), 4A574
Asymmetric elastic buckling of axially compressed conical shells with various end conditions, AIAA J 33(11) 2218-2227 (Nov 1995), 4A577
Endochronic analysis for compressive buckling of thin-walled cylinders in yield region, Appl Math Mech 16(8) 801-812 (Aug 1995), 4T578
Elastic-viscoplastic buckling of circular cylindrical shells under axial compression, Eur J Mech A 14(6) 901-920 (1995), 4A583
Analysis and Software of Cylindrical Members (CRC Press, Boca Raton FL, 1996) 5R14
Free vibration and stability analysis of shells by the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 53-82 (1996), 5A11
Effective four node degenerated shell element for geometrically nonlinear analysis, Thin-Walled Struct 24(3) 261-283 (1996), 5A32
Buckling and post-buckling behavior of a pipe subjected to internal pressure, J Appl Mech 62(3) 595-599 (Sep 1995), 5A530
Elastic buckling of cone-cylinder intersection under localized circumferential compression, Eng Struct 18(1) 41-48 (Jan 1996), 5A531
Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, Thin-Walled Struct 24(2) 113-122 (1996), 5A532
Dynamic elastic instability of long circular cylindrical shells under pure bending, Thin-Walled Struct 24(2) 123-133 (1996), 5A536
Reliability of shells via Koiter formulas, Thin-Walled Struct 24(2) 173-187 (1996), 5A703
Buckling of thin shells: Recent advances and trends, Appl Mech Rev 49(4) 263-274 (Apr 1996), 6A498
Cone-cylinder intersection under internal pressure: Nonsymmetric buckling, J Eng Mech 121(12) 1298-1305 (Dec 1995), 6A499
Influence of primary boundary conditions on the buckling of shallow cylindrical shells, J Construct Steel Res 36(1) 53-75 (1996), 6A500
Consideration of material damage in the problems of shells stability, Prikl Mekh (Appl Mech) 31(1) 63-67 (1995), 7T664
Effect of fissureness of material on stability of cylindrical shells compressed in the axial direction (Russian), Prikl Mekh (Appl Mech) 31(4) 28-33 (1995), 7A665
Experimental study of the effect of boundary conditions on stability of cylindrical shells of glass-reinforced plastic under external pressure, Prikl Mekh (Appl Mech) 30(11) 50-57 (1994), 7A666
Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, Mech Solids 30(4) 139-145 (1995), 7A667
Precritical state and stability of cylindrical shells beyond the elasticity limit, Prikl Mekh (Appl Mech) 31(2) 29-33 (1995), 7A668
Stability of conical shells reinforced with meridial and nonregular ring reinforcements, Prikl Mekh (Appl Mech) 31(1) 73-78 (1995), 7A669
Study of stability of sphero-cylindrical shells of glass reinforced plastic loaded with uniform external pressure, Prikl Mekh (Appl Mech) 30(12) 49-54 (1994), 7A670
Effect of the form of meridian and ring reinforcement on the value of critical pressure for the shells of revolution, Prikl Mekh (Appl Mech) 31(1) 58-63 (1995), 7A671
Nonlinear stability of a defective cylindrical shell, Mech Res Commun 23(2) 151-164 (Apr 1996), 8A499
Approximate estimates of dynamic instability of long circular cylindrical shells under pure bending, Int J Pressure Vessels Piping 67(1) 37-40 (1996), 8A512
Nonlinear buckling of symmetrically laminated, cylindrically orthotropic, shallow, conical shells considering shear, Int J Non-Linear Mech 31(1) 89-99 (Jan 1996), 8A513
Nonlinear buckling of symmetrically laminated, cylindrically orthotropic, truncated, shallow, spherical shells under uniform pressure including shear effects, Int J Non-Linear Mech 31(1) 101-115 (Jan 1996), 8A514
Stability analysis of axisymmetric thin shells, J Eng Mech 122(3) 278-281 (Mar 1996), 8A515
Variational principle of thin shell in stability, Appl Math Mech 16(12) 1161-1169 (Dec 1995), 8A516
Nonlinear and postbuckling responses of curved composite panels with cutouts, Composite Struct 34(2) 213-240 (1996), 9A614
Influence of continuity and aspect-ratio on the buckling of skew plates and plate assemblies, Int J Solids Struct 33(15) 2133-2159 (Jun 1996), 9A625
Approximated formulas to calculate ribbed cylindrical shells for stability, Prikl Mekh (Appl Mech) 31(9) 51-57 (1995), 9A631
Instability of the elastic shell with geometrical imperfections, Arch Civil Eng 41(4) 497-508 (1995), 9A632
Semi-discrete analysis for stability of large conical shell stiffened with longitudinal ribs (Chinese), J Comput Struct Mech Appl 12(2) 178-188 (May 1995), 9T633
Stability of cylindrical shell under the deflection compression under 1-way connection, Prikl Mekh (Appl Mech) 31(9) 46-50 (1995), 9A634
Stability of smooth and ribbed shells of revolution under nonhomogeneous precritical state: Survey, Prikl Mekh (Appl Mech) 31(7) 3-24 (1995), 9A635
Buckling of filament-wound cylindrical vessels subjected to external pressure, J Pressure Vessel Tech 118(2) 216-220 (May 1996), 10A631
Nonlinear model for stability analysis of reticulated shallow shells with imperfections, Int J Space Struct 10(4) 215-230 (1995), 10A632
Postbuckling analysis of cylindrical shells under combined external liquid pressure and axial compression, Thin-Walled Struct 25(4) 297-317 (1996), 11A539
Approximate linear buckling analysis for a sort of beam system (Chinese), J Comput Struct Mech Appl 13(2) 226-230 (May 1996), 11A550
Delamination buckling and postbuckling of composite cylindrical shells, AIAA J 34(6) 1279-1286 (Jun 1996), 11A654
Design of shear-deformable laminated shells for maximum buckling load under combined loading, Mech Composite Mat Struct 3(2) 119-132 (Jun 1996), 11A720
Instability of a cylindrical shell under three-point bending, Thin-Walled Struct 26(2) 105-122 (1996), 12A6
Scale models for laminated cylindrical shells subjected to axial compression, Composite Struct 34(4) 371-379 (1996), 12A596
Buckling of circular cylindrical shells subject to uniform lateral pressure, Eng Struct 18(8) 604-614 (Aug 1996), 12A623
Collapse of composite cylindrical panels with various thickness using FE analysis, Comput Struct 60(5) 797-815 (Jul 1996), 12A624
Nonlinear and postbuckling analyses of curved composite panels subjected to combined temperature change and edge shear, Comput Struct 60(6) 853-874 (Jul 1996), 12A625
Thermoelastic buckling of thin cylindrical shells based on improved stability equations, J Thermal Stresses 19(4) 299-315 (Jun 1996), 12A626

262J. Pipes and pressure vessels

Analysis of postbuckling behavior of line pipe subjected to combined loads, Int J Solids Struct 32(20) 3015-3036 (Oct 1995), 1A669
Experimental and theoretical studies in subsea pipeline buckling, Marine Struct 9(2) 211-257 (1995), 3A558
Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, AIAA J 33(12) 2354-2358 (Dec 1995), 4A579
Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, Thin-Walled Struct 24(3) 191-210 (1996), 5A533
Buckling and lockup of tubulars in inclined wellbores, J Energy Resources Tech 117(3) 208-213 (Sep 1995), 5A1343
Effect of wellbore curvature on tubular buckling and lockup, J Energy Resources Tech 117(3) 214-218 (Sep 1995), 5A1344
Performance of new sandwich tube under axial loading: Experiment, J Struct Eng 121(12) 1806-1814 (Dec 1995), 6A501
Performance of new sandwich tube under axial loading: Analysis, J Struct Eng 121(12) 1815-1821 (Dec 1995), 6A502
Tubular members - Part I: Stability analysis and preliminary results, J Eng Mech 122(1) 64-71 (Jan 1996), 6A503
Tubular members - Part II: Local buckling and experimental verification, J Eng Mech 122(1) 72-78 (Jan 1996), 6A504
Effect of the form of meridian and ring reinforcement on the value of critical pressure for the shells of revolution, Prikl Mekh (Appl Mech) 31(1) 58-63 (1995), 7A671
Study on buckling of offshore pipelines, J Offshore Mech Arctic Eng 118(1) 62-70 (Feb 1996), 8A517
Bending instability of composite tubes, J Aerospace Eng 9(2) 58-61 (Apr 1996), 10A633

262K. Stiffened and anisotropic structures

Eighth International conference on composite structures, Composite Struct 32(1-4) 1-680 (1995), 2A419
Simplified method for evaluating the seismic buckling capacity of unstiffened steel containment structures, Nucl Eng Des 158(1) 31-45 (Sep 1995), 2A502
Analytic sensitivity and approximation of skin buckling constraints in wing-shape synthesis, J Aircraft 32(5) 1102-1113 (Oct 1995), 2A1009
Buckling loads for built-up columns with stay plates, J Eng Mech 121(11) 1200-1208 (Nov 1995), 3A551
Effect of orthotropy on the stability of nearly cylindrical shells of revolution, Mech Solids 30(1) 179-185 (1995), 3A556
Buckling of orthotropic plates with free and rotationally restrained unloaded edges, Thin-Walled Struct 24(1) 83-96 (1996), 5A526
Postbuckling analysis of imperfect composite laminated plates on nonlinear elastic foundations, Int J Non-Linear Mech 30(5) 651-659 (Sep 1995), 5A534
Torsional buckling of outstands in longitudinally stiffened panels, Thin-Walled Struct 24(3) 211-229 (1996), 5A535
Computational models for sandwich panels and shells, Appl Mech Rev 49(3) 155-200 (Mar 1996), 6A483
Ultimate strength of uniformly compression edge-stiffened thin-walled sections, J Construct Steel Res 36(1) 31-51 (1996), 6A505
Optimal orientation of orthotropic materials for plates designed against buckling, Struct Optim 10(3-4) 191-196 (Dec 1995), 6A720

Effect of orthotropism and laminarity of the coating of a ribbed shell of revolution on its stability, Prikl Mekh (Appl Mech) 31(2) 33-38 (1995), 7A672

Influence of boundary conditions on the stability of a periodically stiffened compressed plate, Mech Solids 30(4) 146-153 (1995), 7A673

Study of the effect of corrosive media on the long-term stability of reinforced plates, Prikl Mekh (Appl Mech) 31(2) 55-62 (1995), 7A674

Circumferential stiffeners as buckle arrestors in long panels, Int J Solids Struct 33(13) 1837-1851 (May 1996), 8A518

Development of column curve for steel angles, J Struct Eng 122(3) 318-325 (Mar 1996), 8A519

Flexural buckling of steel angles: Experimental investigation, J Struct Eng 122(3) 309-317 (Mar 1996), 8A520

Design model for intermediate web stiffeners, Proc Inst Civil Eng Struct Build 116(1) 54-68 (Feb 1996), 9A600

Stability of smooth and ribbed shells of revolution under nonhomogeneous precritical state: Survey, Prikl Mekh (Appl Mech) 31(7) 3-24 (1995), 9A635

Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), J Comput Struct Mech Appl 12(2) 143-151 (May 1995), 9A636

Limits of application of Kirchhoff's hypothesis in the theory of viscoelastic fibrous composite plates, Eng Trans 43(4) 603-626 (1995), 9A637

Compressive failure due to shear instability: Experimental investigation of waviness and correlation with analysis, J Reinforced Plastics Composites 15(4) 420-439 (Apr 1996), 10A571

Evaluation of web buckling test results on welded beams and plate girders subjected to shear, Eng Struct 18(6) 459-464 (Jun 1996), 10A634

Recent advances in sensitivity analysis for thermomechanical postbuckling of composite panels, J Eng Mech 122(4) 300-307 (Apr 1996), 10A635

Exact elasticity solution for buckling of composite laminates, Composite Struct 34(2) 291-299 (1996), 11A429

Machine direction strength theory of corrugated fiberboard, J Composite Tech Res 18(2) 80-88 (Apr 1996), 11A551

Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, Thin-Walled Struct 26(1) 45-60 (1996), 11A728

Parametric instability of multi-layered sandwich beams, J Sound Vib 193(3) 631-644 (Jun 1996), 12A189

Microbuckle propagation in a unidirectional carbon fiber-epoxy matrix composite, Acta Mat 44(7) 2581-2590 (Jul 1996), 12A536

Buckling of advanced composite prestressed units under inplane loading, Composites Part A Appl Sci and Manuf 27A(7) 531-545 (1996), 12A627

Engineering analysis of buckling of delaminated beam plates, Composite Struct 34(4) 397-407 (1996), 12A628

262L. Dynamic stability

Dynamic stability of a plate on multiple line and point supports subject to pulsating conservative in-plane loads, J Sound Vib 185(2) 345-356 (Aug 1995), 1A670

Effects of axial base excitations on the dynamic stability of spinning pre-twisted cantilever beams, J Sound Vib 185(2) 265-278 (Aug 1995), 1A671

Effects of initial curvature on the dynamic stability of a beam with tip mass subjected to axial pulsating loads, Int J Solids Struct 32(23) 3377-3392 (Dec 1995), 1A672

Elastoplastic dynamic buckling and postbuckling of square plates under solid-fluid slamming, Acta Mech Solida Sinica 8(2) 178-188 (1995), 1A673

Simplified over-stress analytical model of the dynamic buckling of a perfectly plastic column under axial impact, Appl Math Mech 16(6) 607-610 (Jun 1995), 1A674

Elastic instability of beams subjected to a partially tangential force, J Sound Vib 186(1) 111-123 (Sep 1995), 2A196

Comment on "stability of non-conservative linear discrete gyroscopic systems", J Sound Vib 185(5) 891-894 (Sep 1995), 2T503

Damping effects on the dynamic stability of a beam on an elastic foundation, Mech Res Commun 22(5) 453-460 (Oct 1995), 2T504

Effect of damping on the stability of a FE model of a flexible non-axisymmetric rotor on tilting pad bearings, J Sound Vib 185(5) 809-825 (Sep 1995), 2A815

Periodic response and stability of rigid mass resting on friction-damped SDOF oscillator, J Eng Mech 121(11) 1226-1233 (Nov 1995), 3A172

Dynamic interactive buckling of ring stiffened composite shells, AIAA J 33(10) 1954-1962 (Oct 1995), 3A559

Dynamic stability of rotating blades with geometric nonlinearity, J Sound Vib 187(3) 421-433 (Nov 1995), 4A211

Dynamic stability of a column with load-dependent support stiffness, Mech Res Commun 22(6) 583-588 (Dec 1995), 4T580

Dynamic stability of four-bar and slider-crank mechanisms with viscoelastic (Kelvin-Voigt model) coupler, Mech Machine Theory 31(1) 77-89 (Jan 1996), 4A581

Global bifurcation of a three-hinged rod subject to a kind of follower force, Comput Struct 58(3) 513-534 (Feb 1996), 4A582

Effect of damping forces on the postcritical behavior of substantially nonpotential systems, Mech Solids 30(2) 147-155 (1995), 5A81

Non-conservative instability of a Timoshenko beam subjected to a partially tangential follower force, J Sound Vib 188(1) 25-38 (13v 1995), 5A123

Instability mechanisms of a disk rotating close to a rigid surface, J Appl Mech 62(3) 764-771 (Sep 1995), 5A142

Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, Int J Non-Linear Mech 30(5) 727-740 (Sep 1995), 5A154

Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, Int J Non-Linear Mech 30(5) 741-757 (Sep 1995), 5A155

Dynamic elastic instability of long circular cylindrical shells under pure bending, Thin-Walled Struct 24(2) 123-133 (1996), 5A536

Influence of large deflections on the dynamic stability of nonlinear viscoelastic plates, Acta Mech 113(1-4) 215-231 (1995), 5A537

Stability theorem for Hill's equation for engineering applications, J Vib Acoust 117(3(A)) 380-381 (Jul 1995), 5T538

Snoring: Linear stability analysis and *in vitro* experiments, J Sound Vib 188(1) 39-54 (Nov 1995), 5A1366

Aerodynamic stability analysis of cable-stayed bridges, J Struct Eng 121(12) 1784-1788 (Dec 1995), 6A159

Chaotic phenomena in the dynamic buckling of an elastic-plastic column under an impact, Nonlinear Dyn 9(3) 265-280 (Mar 1996), 7A103

Dynamic buckling of composite shells, Comput Struct 59(1) 43-53 (Apr 1996), 7A675

Dynamic buckling of discrete structural systems under combined step and static loads, Nonlinear Dyn 9(3) 249-264 (Mar 1996), 7A676

Dynamic pulse buckling of cylindrical shells subjected to external impulsive loading, J Pressure Vessel Tech 118(1) 33-37 (Feb 1996), 7A677

Stability analysis of periodic systems by truncated point mappings, J Sound Vib 189(1) 33-54 (Jan 1996), 7A678

Dynamic stability of rotating composite shafts, Mech Res Commun 23(2) 175-180 (Apr 1996), 8A130

Dynamic stability of a tapered cantilever beam on an elastic foundation subjected to a follower force, Int J Solids Struct 33(10) 1409-1424 (Apr 1996), 8A473

Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, Struct Eng and Mech 3(3) 229-244 (May 1995), 8A521

Dynamic stability of a rotor filled or partially filled with liquid, J Appl Mech 63(1) 101-105 (Mar 1996), 9A232

Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, Appl Math Mech 17(1) 1-8 (Jan 1996), 9A638

Dynamic stability of a moving column subject to axial acceleration and force perturbations, Eng Comput 12(7) 609-618 (Oct 1995), 9A639

Free vibration and stability of thin elastic beams subjected to axial forces, J Sound Vib 191(5) 917-933 (Apr 1996), 10A636

Simulative analyses of dynamic buckling of bellows, J Pressure Vessel Tech 118(2) 129-136 (May 1996), 10A637

Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics, J Sound Vib 192(5) 959-976 (May 1996), 11A94

Quasi-periodic response and stability analysis for nonlinear systems: A general approach, J Sound Vib 192(4) 821-833 (May 1996), 11A95

Slow-transition across instabilities in nonlinear dissipative systems, J Sound Vib 192(4) 835-865 (May 1996), 11A97

Dynamic stability analysis of a closed-loop flexible link mechanism, Mech Machine Theory 31(5) 545-560 (Jul 1996), 11A552

Effects of damping on the dynamic stability of a rod with an intermediate spring support subjected to follower forces, Comput Struct 60(1) 31-39 (Jul 1996), 11A553

Nonlinear dynamic instability of laminated composite plates using FEM, Comput Struct 60(1) 125-130 (Jul 1996), 11A554

Numerical method for stability analysis of pinned flexible mechanisms, J Sound Vib 192(5) 941-957 (May 1996), 11A555

Vibration and stability of a spinning disk under stationary distributed edge loads, J Appl Mech 63(2) 439-444 (Jun 1996), 12A183

New vibration regulation strategy and stability analysis for a flexible gyroscopic system, J Sound Vib 193(2) 465-481 (Jun 1996), 12A407

Damping effects on the dynamic stability of a rod subjected to intermediate follower loads, Comput Methods Appl Mech Eng 131(1-2) 147-157 (Apr 1996), 12A629

Dynamic buckling mechanism of single-dof dissipative and non-dissipative autonomous systems, J Sound Vib 193(3) 645-668 (Jun 1996), 12A630

Stability of simple discrete systems under nonconservative loading with dynamic follower parameter, Comput Struct 60(4) 653-663 (Jun 1996), 12A631

262M. Viscoelastic and creep buckling

Creep buckling and rupture of columns with arbitrary symmetric cross section, Int J Mech Sci 37(8) 831-841 (Aug 1995), 1A675

Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, Thin-Walled Struct 24(3) 191-210 (1996), 5A533

Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, Mech Solids 30(4) 139-145 (1995), 7A667

Almost sure stability of a viscoelastic rod subjected to a random stationary longitudinal force, Mech Solids 30(4) 154-160 (1995), 7A679

Lyapunov stability of a class of operator integrodifferential equations with applications to viscoelasticity, Math Methods Appl Sci 19(5) 341-361 (Mar 1996), 8A522

Estimation of creep buckling deformation under external pressure at elevated temperature, J Pressure Vessel Tech 118(2) 194-197 (May 1996), 10A638

Evolution of localized folding for a thin elastic layer in a softening visco-elastic medium, Pure Appl Geophys 146(2) 229-252 (Mar 1996), 10A639

262N. Plastic and elastoplastic buckling

Analyse Des Structures Et Milieux Continus: Mecanique des structures (French) (Presses Polytech Romandes, Lausanne, 1994) 1R12

Observations on the dynamic elastic-plastic buckling of a structural model, Int J Impact Eng 16(4) 621-635 (Aug 1995), 1A676

Plastic buckling analysis by the continuum FE modeling, Comput Struct 57(3) 513-526 (Nov 1995), 1A677

Elastic-viscoplastic buckling of circular cylindrical shells under axial compression, Eur J Mech A 14(6) 901-920 (1995), 4A583

Pattern formation in plasticity, Int J Eng Sci 33(15) 2161-2178 (Dec 1995), 4A584

Ultimate strength of girders with trapezoidally corrugated webs under patch loading, Thin-Walled Struct 24(2) 135-156 (1996), 5A501

Compressive strength of rectangular plates under biaxial load and lateral pressure, Thin-Walled Struct 24(3) 231-259 (1996), 5A527

Instability phenomena in plasticity: Modeling and computation, Comput Mech 17(1-2) 74-87 (Dec 1995), 6A410

Plastic buckling of stiffened torispherical shell, Appl Math Mech 16(10) 1003-1012 (Oct 1995), 6A506

Local buckling of thin steel plates in composite construction: Experimental and theoretical study, Proc Inst Civil Eng Struct Build 110(4) 426-440 (Nov 1995), 7A661

Buckling of elastic-plastic square tubes under bending, Int J Mech Sci 38(7) 753-775 (Jul 1996), 9A640

Failure of notched CFRP laminates due to fiber microbuckling: A topical review, J Mech Behavior Mat 6(4) 309-330 (1996), 10A793

Crashworthiness of automotive steel midrails: Thickness and material sensitivity, Thin-Walled Struct 26(2) 83-103 (1996), 12A632

262Y. Computational techniques

Simple method to follow post-buckling paths in FE analysis, Comput Struct 57(3) 477-489 (Nov 1995), 1A678

Special incremental-iterative solution technique for nonlinear structural analysis including snap-through, Commun Numer Methods Eng 11(8) 703-712 (Aug 1995), 1A679

Stability of Structures by FEM (Elsevier, New York, 1994) 2R22

Computing critical points and secondary paths in nonlinear structural stability analysis by the FEM, Comput Struct 58(1) 203-220 (Jan 1996), 3A560

Nonlinear structural analysis on distributed-memory computers, Comput Struct 58(2) 233-247 (Jan 1996), 3A561

Optimization of symmetric laminates for maximum buckling load including the effects of bending-twisting coupling, Comput Struct 58(2) 313-319 (Jan 1996), 3A562

Generalized topology design of structures with a buckling load criterion, Struct Optim 10(2) 71-78 (Oct 1995), 3A758

Computer-aided multiscale modeling tools for composite materials and structures, Comput Syst Eng 6(3) 213-223 (Jun 1995), 4A531

Enclosing bounds for buckling loads, fundamental frequencies, and other eigenvalues, Indust Math 45(1) 25-39 (1995), 4A585

Fat-fractal scaling in an area-preserving structural mapping, Comput Struct 58(4) 851-858 (Feb 1996), 4A586

New criterion for determination of initial loading parameter in arc-length methods, Comput Struct 58(3) 479-485 (Feb 1996), 4A587

Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, Finite Elements Anal Des 21(1-2) 75-110 (Oct 1995), 5A34

Large deformation elastic-plastic analysis of space frames, J Construct Steel Res 35(3) 275-290 (1995), 5A490

Elastic stability of partially-restrained plates under compression and in-plane bending, J Construct Steel Res 35(3) 339-360 (1995), 5A529

Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, Thin-Walled Struct 24(2) 113-122 (1996), 5A532

Buckling analysis of thin-walled structures by finite node-strip method (Japanese), Proc JSCE 525(I-33) 17-26 (Oct 1995), 5A539

Finite elements for three-mode interaction in buckling analysis, Int J Numer Methods Eng 39(3) 469-488 (Feb 1996), 7A680

Generalized differential quadrature method for buckling analysis, J Eng Mech 122(2) 95-100 (Feb 1996), 7A681

Problems with the Toeplitz and quasi-Toeplitz matrices that appear in the static stability analysis of elastic systems, J Appl Math Mech 59(5) 753-761 (1995), 8A523

Design model for intermediate web stiffeners, Proc Inst Civil Eng Struct Build 116(1) 54-68 (Feb 1996), 9A600

Note on finite strip buckling analysis of composite plate structures, Composite Struct 34(2) 163-168 (1996), 9A627

Computational concepts in structural stability, Arch Comput Methods Eng 3(1) 81-119 (1996), 9A641

Explicit geometric stiffness matrix of quasi-conforming trapezoidal element and buckling analysis (Chinese), J Comput Struct Mech Appl 12(2) 160-169 (May 1995), 9A642

Finite element study on Shanley's plastic buckling theory of short columns, Comput Struct 59(5) 975-982 (Jun 1996), 9A643

Optimized Rayleigh method and *Mathematica* in vibrations and buckling problems, J Sound Vib 191(5) 795-808 (Apr 1996), 10A202

Influence of local postbuckling behavior on bending of thin-walled beams, Thin-Walled Struct 25(3) 219-230 (1996), 10A622

Analytical and numerical tests for loss of material stability, Int J Numer Methods Eng 39(10) 1721-1736 (May 1996), 10A640

Sensitivity analysis for large-deflection and postbuckling responses on distributed-memory computers, Comput Methods Appl Mech Eng 129(4) 393-409 (Feb 1996), 10A641

Sensitivity analysis of bifurcation load of finite-dimensional symmetric systems, Int J Numer Methods Eng 39(10) 1707-1720 (May 1996), 10A642

Boundary integral equations and the BEM for buckling analysis of perforated plates, Eng Anal Boundary Elements 17(1) 57-68 (1996), 11A556

Instability of a cylindrical shell under three-point bending, Thin-Walled Struct 26(2) 105-122 (1996), 12A6

Crashworthiness of automotive steel midrails: Thickness and material sensitivity, Thin-Walled Struct 26(2) 83-103 (1996), 12A632

High-order element for prebuckling and buckling analysis of laminated plane frames, Int J Numer Methods Eng 39(13) 2155-2168 (Jul 1996), 12A633

Improving Collatz's estimates of buckling loads, Indust Math 45(2) 73-77 (1995), 12A634

262Z. Experimental techniques

One method of processing of experimental data obtained under the test of cylindrical shells for stability under axial compression (Russian), Prikl Mekh (Appl Mech) 30(10) 45-50 (1994), 3A563

Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, Thin-Walled Struct 24(2) 113-122 (1996), 5A532

Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, Thin-Walled Struct 24(3) 191-210 (1996), 5A533

Ultimate strength of uniformly compression edge-stiffened thin-walled sections, J Construct Steel Res 36(1) 31-51 (1996), 6A505
Experimental verification of the generalized beam theory applied to interactive buckling problems, Thin-Walled Struct 25(1) 61-79 (1996), 7A652
Experiments on inextensional collapse of circular paper disks including the influence of holes, Thin-Walled Struct 25(1) 47-60 (1996), 7A660
Local buckling of thin steel plates in composite construction: Experimental and theoretical study, Proc Inst Civil Eng Struct Build 116(4) 426-440 (Nov 1995), 7A661
Response of unsymmetrical laminates to simple applied forces, Mech Composite Mat Struct 3(1) 65-80 (Mar 1996), 8A510
Local buckling of stiffened plates in offshore structures, J Construct Steel Res 38(1) 41-59 (1996), 12A622
Design methods for profiled steel decks with intermediate stiffeners, J Construct Steel Res 38(1) 61-88 (1996), 12A848

264. ELECTROMAGNETO SOLID MECHANICS

264B. Continuum theory

Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, Waves in Random Media 5(4) 461-495 (Oct 1995), 3A564
Towards modeling of deformable ferromagnets and ferroelectrics, Arch Mech 47(3) 437-483 (1995), 3A565
Radar cross section of the semi-infinite elliptic cone: Numerical evaluation, Wave Motion 22(3) 311-324 (Nov 1995), 4A588
Conservation laws and path-independent integrals with an application for linear electro-magneto-elastic media, Int J Solids Struct 33(6) 865-878 (Mar 1996), 5A540
Quasi-monochromatic wave modulation in anisotropic dielectric media, Int J Non-Linear Mech 30(6) 879-885 (Nov 1995), 5A541
Multiple Rayleigh scattering of electromagnetic waves: A partial summation, Waves in Random Media 6(1) 49-60 (Jan 1996), 8A524
Transient electromagnetic wave propagation in transverse periodic media, Wave Motion 23(3) 259-277 (May 1996), 11A167

264C. Magnetoelasticity

Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, Mech Solids 30(1) 23-30 (1995), 3A80
Magnetoelastic bending and snapping of ferromagnetic plates in oblique magnetic fields, Fusion Eng Des 30(4) 325-337 (Nov 1995), 4A589
One-dimensional bulk waves in a nonlinear magnetoelastic conductor of finite electric conductivity, Int J Eng Sci 33(14) 2067-2084 (Nov 1995), 4A590
Surface waves in a nonlinear magnetoelastic conductor of finite electric conductivity, Int J Eng Sci 33(14) 2085-2102 (Nov 1995), 4A591
Vibration of an elastic dielectric with piezoelectromagnetism, Quart Appl Math 53(4) 753-760 (Dec 1995), 4A594
Magnetoelastic volume shift waves in periodically-laminar medium of the type ferrite-metal-dielectric (Russian), Prikl Mekh (Appl Mech) 31(5) 19-24 (1995), 7A682
Ramified structures of magnetic suspensions, J Intelligent Mat Syst Struct 6(6) 854-859 (Nov 1995), 7A683
Dynamic stability of conducting beam-plates in transverse magnetic fields, J Eng Mech 122(2) 89-94 (Feb 1996), 7A685
Development and analysis of the die-free magnetic-pulse forming of thin-walled parts, J Machinery Manuf Reliab 4 65-68 (1995), 7A721
Stresses in the neighborhood of a crack tip under effects of electromagnetic forces, Int J Fracture 73(4) 287-300 (1995), 8A525
Bond graph models for linear motion magnetostrictive actuators, J Dyn Syst Meas Control 118(1) 161-167 (Mar 1996), 9A401
Global bifurcation of an elastive conducting rod in a magnetic field, SIAM J Math Anal 27(2) 528-542 (Mar 1996), 9A613
Interlayer exchange coupling and giant magnetoresistance in magnetic multilayers, Acta Phys Polonica A 89(3) 277-299 (Mar 1996), 9A644
Nondestructive evaluation of cracks in conducting magnetoelastic materials, Arch Mech 48(1) 67-88 (1996), 9A645
Initial-value problems in acoustics, elastodynamics, and electromagnetics, Wave Motion 23(2) 121-137 (Mar 1996), 10A344
Flows in a curved channel, Nonlinear World 3(2) 201-236 (1996), 11A557
Estimation of the magnetic pressure in tube expansion by electromagnetic forming, J Mat Processing Tech 57(3-4) 311-315 (Feb 1996), 12A635
Fracture of paramagnets and soft ferromagnets, Int J Non-Linear Mech 31(4) 425-440 (Jul 1996), 12A636

264D. Electroelasticity

Stress distribution and mass transport along grain boundaries during steady-state electromigration, Acta Metall Mat 43(9) 3525-3538 (Sep 1995), 1A680
Structural modeling and optimal control of electrorheological material based adaptive beams, Smart Mat Struct 4(3) 207-214 (Sep 1995), 2A505
Electroelastic oscillations of a hollow spherical segment of piezoceramics (Russian), Prikl Mekh (Appl Mech) 30(10) 41-44 (1994), 3A566
Mixed variational principles in nonlinear electroelasticity, Int J Non-Linear Mech 30(5) 719-725 (Sep 1995), 5A542
Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, Prikl Mekh (Appl Mech) 31(1) 50-58 (1995), 7A235
Superplastically free bulging of duralumin LY12CZ under an external strong electric field, Chinese J Aeronaut 8(4) 277-281 (Nov 1995), 7T535
Analytical and experimental investigation of Electrorheological material based adaptive beam structures, J Intelligent Mat Syst Struct 6(6) 846-853 (Nov 1995), 7A910
Resonance vibrations of axisymmetrical electromechanical system with AFC (Russian), Prikl Mekh (Appl Mech) 31(6) 57-63 (1995), 7A1030
Finite element method for electrostrictive ceramic devices, Int J Solids Struct 33(12) 1757-1779 (May 1996), 9A37
Influence of material objectivity on electroelastic dissipation in polarized ferroelectric ceramics, Math Mech Solids 1(1) 45-55 (Mar 1996), 9A646
Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayerd cylindrical shells, AIAA J 34(4) 802-812 (Apr 1996), 9A647
Analysis of the forming of parts from sheet blanks with electrocontact heating, J Machinery Manuf Reliab 5 65-68 (1995), 9A691
Excitation of a thick-walled piezoceramic sphere by nonstationary electric pulses, Mech Solids 30(5) 88-95 (1995), 10T643

264E. Piezoelectricity

Free vibration of piezoelectric laminates in cylindrical bending, Int J Solids Struct 32(20) 2945-2960 (Oct 1995), 1A163
Approximation to surface admittance of Y-rotated langasite, Arch Acoust 20(1) 91-94 (1995), 1A191
Deformation control of laminated composite plates containing piezoelectric layers under thermal loading, J Thermal Stresses 18(4) 449-464 (Aug 1995), 1A554
Dynamic representation formulas and fundamental solutions for piezoelectricity, Int J Solids Struct 32(22) 3307-3325 (Nov 1995), 1A681
Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, Int J Solids Struct 32(20) 2989-3000 (Oct 1995), 1A682
New modeling technique for piezoelectrically actuated beams, Comput Struct 57(3) 361-366 (Nov 1995), 1A683
Coupled backward waves in certain planar doubly periodic systems, J Tech Phys 36(2) 215-229 (1995), 3A178
Precision position control of piezoelectric actuators using charge feedback, J Guidance Control Dyn 18(5) 1068-1073 (Oct 1995), 3A386
Excitation by nonstationary electric signals of a thin-walled radially-polarized piezoceramic cylinder (Russian), Prikl Mekh (Appl Mech) 30(9) 24-30 (1994), 3A567
Experiment of active control of a cable using a piezoelectric active tendon collocated with a force sensor, European J Mech Eng 40(3) 139-145 (1995), 4A372
Equivalent forces and wavenumber spectra of shaped piezoelectric actuators, J Sound Vib 187(1) 111-131 (Oct 1995), 4A395
Accurate description of piezoelectric resonators subject to biasing deformations, Int J Eng Sci 33(15) 2239-2259 (Dec 1995), 4A592
Etude theorique d'un microtransilateur piezoelectrique a ondes stationnaires: Une introduction aux futurs micromoteurs multi degres de liberte (French), Mech Machine Theory 31(1) 91-108 (Jan 1996), 4A593
Vibration of an elastic dielectric with piezoelectromagnetism, Quart Appl Math 53(4) 753-760 (Dec 1995), 4A594
Fracture mechanics for a mode III crack in a piezoelectric material, Int J Solids Struct 33(3) 343-359 (Jan 1996), 4A700
Shape memory ceramic actuation of adaptive structures, AIAA J 33(11) 2165-2172 (Nov 1995), 4A799
Modal parameter estimation for piezostructures, J Vib Acoust 117(4) 431-438 (Oct 1995), 5A306
Analysis of hybrid multilayered piezoelectric plates, Int J Eng Sci 34(2) 171-181 (Jan 1996), 5A543
Multivariable transfer functions for a slewing piezoelectric laminate beam, J Dyn Syst Meas Control 117(3) 352-359 (Sep 1995), 5A544
Analysis of piezoelastic structures with laminated piezoelectric triangle shell elements, AIAA J 34(1) 110-115 (Jan 1996), 6A507
Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, AIAA J 34(1) 123-128 (Jan 1996), 6A508
Exact electroelastic analysis of piezoelectric laminae via state space approach, Int J Solids Struct 33(7) 977-990 (Mar 1996), 6A509
Flexural vibration in a finite piezoelectric hollow cylinder of class 6mm, J Acoust Soc Am 99(1) 373-382 (Jan 1996), 6A510
Flexural vibration of piezoelectric composite hollow cylinder, J Acoust Soc Am 99(1) 309-313 (Jan 1996), 6A511
Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, Acta Phys Polonica A 88(4) 779-782 (Oct 1995), 6T512
Piezoelectric effect in strained CdTe-based heterostructures, Acta Phys Polonica A 88(4) 591-600 (Oct 1995), 6A513
Piezoelectricity of biopolymers, Biorheol 32(6) 593-609 (Dec 1995), 6T514
Resonance contour oscillations of a piezoelectric plate with autoadjusted frequency (Russian), Prikl Mekh (Appl Mech) 31(4) 48-54 (1995), 7A165
Induced high-frequency vibrations of thin piezoceramic load discs (Russian), Prikl Mekh (Appl Mech) 31(5) 75-80 (1995), 7A176
Radiation of nonstationary acoustic waves of radially polarized cylindrical piezotransducer (Russian), Prikl Mekh (Appl Mech) 31(4) 41-48 (1995), 7A334
Simple FE formulation for a laminated composite plate with piezoelectric layers, J Intelligent Mat Syst Struct 6(6) 776-782 (Nov 1995), 7A570
Two-dimensional contact on a piezoelectric half-space, Int J Solids Struct 33(9) 1305-1315 (Apr 1996), 7A684
Results on thermoelasticity for porous piezoeiectric materials, Mech Res Commun 23(1) 1-10 (Feb 1996), 7T1288
Vibration of a simply supported rectangular elastic plate due to piezoelectric actuators, Int J Solids Struct 33(11) 1597-1618 (May 1996), 8A122
Variational bounds for the overall properties of piezoelectric composites, J Mech Phys Solids 44(4) 583-602 (Apr 1996), 8A465
Analysis of structural deviation of C-type piezoresistive pressure sensors using the FEM (Chinese), J Dalian Univ Tech 35(4) 540-543 (Aug 1995), 8A526
Equivalent inclusion method for the work-hardening behavior of piezoelectric composites, Int J Solids Struct 33(10) 1439-1451 (Apr 1996), 8A527
Inverse thermoelastic problem in an isotropic plate associated with a piezoelectric ceramic plate, J Thermal Stresses 19(2) 153-167 (Mar 1996), 8A1223
Coupled electromechanical model of an imperfect piezoelectric vibrating cylinder gyroscope, J Intelligent Mat Syst Struct 7(1) 44-53 (Jan 1996), 9A183
Radiation of piezoelectric rings into the air through cylindrical waveguides, Arch Acoust 20(4) 361-372 (1995), 9A260
Piezoelectric interfacial waves in langasite and dilithium tetraborate, Arch Acoust 21(1) 99-107 (1996), 9A276
Piezoelectric force for scanning force microscopy (SFM) (Japanese), J Japan Soc Precision Eng 62(3) 345-350 (Mar 1996), 9T443
Coupled micro to macro analysis of a composite that hosts embedded piezoelectric actuators, J Intelligent Mat Syst Struct 7(1) 15-24 (Jan 1996), 9A648
Dynamic effects of piezoactuators on the cylindrical shell response, AIAA J 34(4) 795-801 (Apr 1996), 9A649
Methods of measurements of the quality factor of piezoelectric resonators with high electrical and mechanical losses, Arch Acoust 20(4) 373-385 (1995), 9A650
Numerical algorithms for solutions of large eigenvalue problems in piezoelectric resonators, Int J Numer Methods Eng 39(6) 909-922 (Mar 1996), 9A651
Shape and placement of piezoelectric sensors for panel flutter limit-cycle suppression, AIAA J 34(4) 855-857 (Apr 1996), 9T652
Interface crack in bi-piezothermoelastic media, Acta Mech Solida Sinica 9(1) 12-26 (1996), 9A828
Regularity and exact controllability for a beam with piezoelectric actuator, SIAM J Control Optim 34(3) 922-930 (May 1996), 10T442
Modelization and characterization of asymmetrical thermal micro-actuators, J Micromech Microeng 6(1) 134-137 (Mar 1996), 10T464
General solutions for coupled equations for piezoelectric media, Int J Solids Struct 33(16) 2283-2298 (Jul 1996), 10A644
Near-tip fields and intensity factors for interfacial cracks in dissimilar anisotropic piezoelectric media, Int J Fracture 75(2) 163-183 (1995), 10A812
Discrete layer analysis of axisymmetric vibrations of laminated piezoelectric cylinders, J Sound Vib 192(5) 995-1013 (May 1996), 11A135
Active panel flutter suppression using self-sensing piezoactuators, AIAA J 34(6) 1224-1230 (Jun 1996), 11A224
Piezoresistive carbon filament polymer-matrix composite strain sensor, Smart Mat Struct 5(2) 243-246 (Apr 1996), 11T350
Coupled layerwise analysis of thermopiezoelectric composite beams, AIAA J 34(6) 1231-1237 (Jun 1996), 11A482
Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezoelectric material, Int J Solids Struct 33(19) 2719-2737 (Aug 1996), 11A558
Active control of flexible structures by use of segmented piezoelectric elements, J Guidance Control Dyn 19(4) 808-815 (Aug 1996), 12A394
Fundamental variational equations of discontinuous thermopiezoelectric fields, Int J Eng Sci 34(7) 769-782 (May 1996), 12A637
Green's function and general formalism for 2D piezoelectricity, Appl Math letters 9(4) 1-7 (Jul 1996), 12A638
Plane piezoelectric problem of a loaded crack terminating at a material interface, Acta Mech Solida Sinica 9(2) 151-158 (1996), 12A639
Torsional vibration of coaxially segmented, tangentially polarized piezoelectric ceramic tubes, J Acoust Soc Am 99(6) 3476-3480 (Jun 1996), 12A640

264F. Elastic stability in electromagnetic fields

Study on a surface-motor driven precise positioning system, J Dyn Syst Meas Control 117(3) 311-319 (Sep 1995), 5A333
Stability of magnetic bearing-rotor systems having a central support backup bearing, J Dyn Syst Meas Control 117(3) 277-282 (Sep 1995), 5A545
Limiting characteristics of a resonance machine with an electromagnetic vibration exciter, J Machinery Manuf Reliab 3 88-93 (1995), 6A515
Dynamic stability of conducting beam-plates in transverse magnetic fields, J Eng Mech 122(2) 89-94 (Feb 1996), 7A685

264G. Mechanics of superconducting materials

Equilibrium position of Ginzburg Landau vortices, Z Angew Math Phys 46(5) 739-751 (Sep 1995), 2A506
Long time behavior of the Ginzburg-Landau superconductivity equations, Appl Math letters 8(2) 31-34 (Mar 1995), 2A507
Mean-field model of superconducting vortices in 3D, SIAM J Appl Math 55(5) 1259-1274 (Oct 1995), 2A508
Motion of vortices in type II superconductors, SIAM J Appl Math 55(5) 1275-1296 (Oct 1995), 2A509
Superheating field of type II superconductors, SIAM J Appl Math 55(5) 1233-1258 (Oct 1995), 2A510
Slow motion of vortices in the Ginzburg-Landau heat flow, SIAM J Math Anal 26(6) 1452-1466 (Nov 1995), 3A568
Asymptotic analysis of the Ginzburg-Landau model of superconductivity: Reduction to a free boundary model, Quart Appl Math 53(4) 601-627 (Dec 1995), 4A595
Deformation of a superconducting cylindrical tube in a parallel magnetic field, Eur J Mech A 14(6) 893-899 (1995), 4A596
Time dependent Ginzburg-Landau equations of superconductivity, Physica D 88(3) 139-166 (Dec 1995), 4A597
Finite dimensional behavior for the derivative Ginzburg-Landau equation in two spatial dimensions, Physica D 89(1-2) 83-99 (Dec 1995), 6A516
Conjectures about phase turbulence in the complex Ginzburg-Landau equation, Physica D 90(1-2) 96-106 (Jan 1996), 7T104
Controlling turbulence in the complex Ginzburg-Landau equation, Physica D 90(1-2) 84-95 (Jan 1996), 7A105
Location of defects in stationary solutions of the Ginzburg-Landau equation in R^2, Quart Appl Math 54(1) 85-104 (Mar 1996), 7T686
Superconductivity in the two-chain Hubbard model including the interchain Coulomb interaction, J Phys Soc Japan 65(1) 327-328 (Jan 1996), 7T687
Mean-field model of superconducting vortices, European J Appl Math 7(2) 97-111 (Apr 1996), 11A559
Note on the classical solution of a 2D superconductor free boundary problem, European J Appl Math 7(2) 113-118 (Apr 1996), 11A560
Model for variable thickness superconducting thin films, Z Angew Math Phys 47(3) 410-431 (May 1996), 12A641

264Y. Computational techniques

Magnetic surface anisotropy in ferromagnetic thin films with two rough surfaces, Acta Phys Polonica A 88(S1) S-69 - S-76 (1995), 1T684
Radial crack in elastic dielectric cylinder - I: Formulation of the problem for interactions of dielectric with electrostatic field, Bull Polish Acad Sci Tech Sci 43(2) 151-163 (1995), 1A685
Radial crack in elastic dielectric cylinder - II: Stress intensity coefficient K_1, Bull Polish Acad Sci Tech Sci 43(2) 165-178 (1995), 1A686
Variational estimation of soliton contribution to nonlinear propagation of Gaussians, J Tech Phys 36(2) 199-213 (1995), 3A67
Approach to the solution of dynamic problems for laminated electroelastic and anisotropic media, J Appl Math Mech 59(4) 625-634 (1995), 7A688
Chaotic dynamics of periodically driven domain walls in magnetic garnet films, Acta Phys Polonica A 89(4) 495-501 (Apr 1996), 10T645

264Z. Experimental techniques

Change of the physical parameters of semiconductor crystals under thermocyclic treatment, Acta Phys Polonica A 88(S1) S-17 - S-22 (1995), 1T687
Influence of defects on dielectric properties of $(CH_3NH_3)_5Bi_2X_{11}$ (X = Cl, Br) crystals, Acta Phys Polonica A 88(2) 369-374 (Aug 1995), 1A688
Hydrostatic pressure study of MBE CdMnTe doped with bromine, Acta Phys Polonica A 88(5) 933-936 (Nov 1995), 6A517
Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, Acta Phys Polonica A 88(4) 607-618 (Oct 1995), 6A518
Magnetic susceptibility of HgTe(Mn,Fe,Cr), Acta Phys Polonica A 88(4) 715-718 (Oct 1995), 6T519
Magnetotransport characterization of HgCdTe solid solutions structural quality, Acta Phys Polonica A 88(4) 679-682 (Oct 1995), 6A520
Methods of measurements of the quality factor of piezoelectric resonators with high electrical and mechanical losses, Arch Acoust 20(4) 373-385 (1995), 9A650
Annealing effect on grain texture and magnetic properties of 0.13 mm 3% Si-Fe strips, Arch Naukio Mat 16(4) 267-274 (1995), 9T653
Anomalous reversible torque in layered superconducting $Bi_2Sr_2CaCu_2O_x$, Acta Phys Polonica A 89(1) 91-98 (Jan 1996), 9A654
Processing-property-microstructure relations in Fe-M-Nd-C (M = Cu, Ga, Nb, Al) based ingot magnets, Arch Naukio Mat 16(2) 113-126 (1995), 9T655
Surface treatment effect on bulk magnetoelastic properties of high damping Fe-based alloys, Acta Phys Polonica A 89(3) 425-430 (Mar 1996), 9A991

266. SOIL MECHANICS (BASIC)

266A. General theory

Geotechnical Engineering (Balkema, Rotterdam, Netherlands, 1995) 1R18
Geotechnical behavior of saline sabkha soils, Geotechnique 45(3) 425-445 (Sep 1995), 2A511
Geotechnical Engineering: Soil Mechanics (Wiley, New York, 1995) 4R11
Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory, Appl Mech Rev 49(4) 201-262 (Apr 1996), 6A1222
Experimental and numerical studies of shear layers in granular shear cell, J Eng Mech 122(3) 187-196 (Mar 1996), 8A528
Small-strain response of random arrays of spheres using discrete element method, J Eng Mech 122(3) 239-244 (Mar 1996), 8A529
Elasticity and Geomechanics (Cambridge UP, New York, 1996) 9R9
Sedimentation and self-weight consolidation: General unifying theory, Geotechnique 46(1) 103-113 (Mar 1996), 9T666
Logarithmic stress-strain function for rocks and soils, Geotechnique 46(1) 157-164 (Mar 1996), 9T685
Axioms in the structural mechanics of soils, Acta Tech CSAV 41(2) 153-175 (1996), 11A561
Dependence of porous media on geomstrical parameters (French), Mat Struct 29(188) 206-218 (May 1996), 11A562
Validity and limits of the effective stress concept in geomechanics, Mech Cohesive-Frictional Mat 1(2) 219-234 (Apr 1996), 11A563

266B. Structure and classification

Soil classification by neural network, Adv Eng Software 22(2) 95-97 (1995), 1A689
Modeling of the ground by CEM and determination of its input parameters (Japanese), Proc JSCE 529(III-33) 11-18 (Dec 1995), 7A689
Genesis and Properties of Collapsible Soils - Series C: Math and Phys Sci, Vol 468 (Kluwer, MA, 1995) 9N14
Determination and interpretation of fractal properties of the sandstone pore system, Mat Struct 29(188) 195-205 (May 1996), 11A568

266C. Constitutive relations and models

Mechanical response of saturated cemented materials - Part I: Theoretical considerations, Int J Numer Anal Methods Geomech 19(8) 555-562 (Aug 1995), 1A690
Mechanical response of saturated cemented materials - Part II: Experimental investigation and numerical simulations, Int J Numer Anal Methods Geomech 19(8) 563-571 (Aug 1995), 1A691
Scaled memory model for cyclic behavior of soils, J Geotech Eng 121(11) 766-775 (Nov 1995), 3A569
Macroscopic model of the swelling phenomenon of a saturated clay, Eur J Mech A 14(6) 981-1004 (1995), 4A603
Undrained response of granular soil involving localized deformation, J Eng Mech 121(12) 1292-1297 (Dec 1995), 6A521
Modeling of the ground by CEM and determination of its input parameters (Japanese), Proc JSCE 529(III-33) 11-18 (Dec 1995), 7A689
Void sizes in granular soils, J Geotech Eng 122(3) 236-239 (Mar 1996), 8A530
Constitutive relations for granulate-liquid mixtures with a pectic constituent, Mech Mat 22(2) 93-103 (Feb 1996), 9A656
Significance of particle crushing in granular materials, J Geotech Eng 122(4) 309-316 (Apr 1996), 9A657
Two-dimensional dynamics of a stratified elastic subsoil layer, Arch Appl Mech 66(4) 284-290 (Mar 1996), 9A669
Investigation of the stress-strain relationship of sand, J Terramech 32(5) 221-230 (Sep 1995), 10A646
Multiphase medium model for localization and postlocalization simulation in geomsterials, Mech Cohesive-Frictional Mat 1(1) 95-114 (Jan 1996), 10A647
Relationship between the mechanical behavior and the state of porewater in unsaturated soil (Japanese), Proc JSCE 535(III-34) 83-92 (Mar 1996), 10A648
Stress strain relationship of sandy soils obtained from centrifuge shaking table tests (Japanese), Proc JSCE 535(III-34) 73-82 (Mar 1996), 10A649
Time dependent mechanical behavior of loose sands, Mech Cohesive-Frictional Mat 1(1) 45-73 (Jan 1996), 10A650
Numerical Models in Geomechanics - Proc of 5th Int Symp, NUMOG V, Davos, Switzerland, Sept 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N28
Pre-failure Deformation of Geomaterials - Proc of Int Symp, Sapporo, Japan, Sept 1994 (Balkema, Rotterdam, Netherlands, 1995) 12N29
Unsaturated soils-Sols non satures - Proc of 1st Int Conf, UNSAT 95, Paris, France, Sept 1995 (Balkema, Rotterdam, Netherlands, 1996) 12N37
Elastoplastic soil constitutive laws generalized to partially saturated states, Geotechnique 46(2) 279-289 (Jun 1996), 12A642
Modeling of interface problems by the FEM with considerable displacements, Comput Geotech 19(1) 23-45 (1996), 12A643
Yielding and plastic behavior of an unsaturated compacted silt, Geotechnique 46(2) 291-311 (Jun 1996), 12A644

266D. Pore pressure, phase movement

Posttesting correction procedure for membrane compliance effects on pore pressure, J Geotech Eng 122(1) 27-38 (Jan 1996), 6A522
Relation between phase composition, pore structure, and compressive strength of carbonated mortar, Proc JSCE 526(II) 133-141 (Nov 1995), 6T862
Study of pore pressures induced in laboratory dynamic consolidation, Comput Geotech 18(2) 127-143 (1996), 8A531
Validity and limits of the effective stress concept in geomechanics, Mech Cohesive-Frictional Mat 1(2) 219-234 (Apr 1996), 11A563

266E. Mechanical properties

Geotechnical behavior of saline sabkha soils, Geotechnique 45(3) 425-445 (Sep 1995), 2A511
Engineering properties of carbonate sands and skin friction of pile in sands (Japanese), Proc JSCE 523(III-32) 99-109 (Sep 1995), 4A598
Micromechanics of granular media - Part I: Generation of overall constitutive equation for assemblies of circular disks, Comput Methods Appl Mech Eng 127(1-4) 13-36 (Nov 1995), 4A599
Undrained strength of highly organic soil and its suction measured before shear test (Japanese), Proc JSCE 523(III-32) 91-97 (Sep 1995), 4A600
Validation of small strain properties from recorded weak seismic motions, Soil Dyn Earthquake Eng 14(6) 399-408 (1995), 4A601
Chain-paddle driving mechanism and its pull prediction, J Terramech 32(2) 63-77 (Mar 1995), 5A546
Constitutive relations for partially saturated soils containing gas inclusions, J Geotech Eng 122(1) 50-59 (Jan 1996), 6A523
Development of t-z curves for cemented fine-grained soil deposits, J Geotech Eng 121(12) 886-895 (Dec 1995), 6A524
Engineering properties of diatomaceous fill, J Geotech Eng 121(12) 908-910 (Dec 1995), 6A525
Grain-size distribution for smallest possible void ratio, J Geotech Eng 122(1) 74-77 (Jan 1996), 6A526
Normalized nondegrading behavior of soft clay under cyclic simple shear loading, J Geotech Eng 121(12) 836-843 (Dec 1995), 6A527
Strain rate and preshear effects in cyclic resistance of soft clay, J Geotech Eng 122(1) 21-26 (Jan 1996), 6A528
Chloride migration through clayey silt underlain by fine sand or silt, J Geotech Eng 122(1) 60-68 (Jan 1996), 6A1183
Drained sand behavior in axisymmetric tests at high pressures, J Geotech Eng 122(2) 109-119 (Feb 1996), 7A690
Rate-dependent undrained shear behavior of saturated clay, J Geotech Eng 122(2) 99-108 (Feb 1996), 7A691
Shear moduli and damping ratios of saturated sand deposits on shaking table tests in the centrifuge (Japanese), Proc JSCE 529(III-33) 29-36 (Dec 1995), 7A692
Undrained multidirectional direct simple shear behavior of cohesive soil, J Geotech Eng 122(2) 91-98 (Feb 1996), 7A693
Undrained sand behavior in axisymmetric tests at high pressures, J Geotech Eng 122(2) 120-129 (Feb 1996), 7A694
Failure of fiber-reinforced granular soils, J Geotech Eng 122(3) 226-234 (Mar 1996), 8A532
HDPE geonembrane-geotextile interface shear strength, J Geotech Eng 122(3) 197-203 (Mar 1996), 8A533
Hydraulic conductivity of desiccated geosynthetic clay liners, J Geotech Eng 122(3) 204-208 (Mar 1996), 8A534
Angles of friction and dilatancy of sand, Geotechnique 46(1) 145-151 (Mar 1996), 9T658
Anisotropy of small strain stiffness in Ticino sand, Geotechnique 46(1) 115-131 (Mar 1996), 9A659
Shear strength of reinforced geosynthetic clay liner, J Geotech Eng 122(4) 259-266 (Apr 1996), 9A660
Strain softening and shear band formation of sand in multi-axial testing, Geotechnique 46(1) 63-82 (Mar 1996), 9T661
Fracture behavior of a cohesive soil under crushing stress loading, J Terramech 32(4) 167-179 (Jul 1995), 9A665
Logarithmic stress-strain function for rocks and soils, Geotechnique 46(1) 157-164 (Mar 1996), 9T685
Time dependent mechanical behavior of loose sands, Mech Cohesive-Frictional Mat 1(1) 45-73 (Jan 1996), 10A650

266F. Expansive clays

Approximate analysis of the 3D effects of diaphragm wall installation, Geotechnique 45(3) 497-507 (Sep 1995), 2T512
Compression ridges in subsidence troughs, Geotechnique 45(3) 555-560 (Sep 1995), 2T513
Performance of push-in spade cells installed in stiff clay, Geotechnique 45(3) 533-539 (Sep 1995), 2T514
Practical geometry correction for interpreting pressurement tests in clay, Geotechnique 45(3) 549-553 (Sep 1995), 2T518
Anisotropic hardening constitutive model based on generalized isotropic hardening rule for modeling clay behavior, Int J Numer Anal Methods Geomech 19(10) 683-703 (Oct 1995), 3A570
Kinematic hardening of soft clay in simple shear, Int J Numer Anal Methods Geomech 19(11) 769-791 (Nov 1995), 4A602
Macroscopic model of the swelling phenomenon of a saturated clay, Eur J Mech A 14(6) 981-1004 (1995), 4A603
Compression model for non-brittle soft clays and peat, Geotechnique 46(1) 1-16 (Mar 1996), 9A662
Consolidation characteristics of phosphatic clays, J Geotech Eng 122(4) 295-301 (Apr 1996), 9A663
Improvement of soft clays by high-voltage electrokinetics, J Geotech Eng 122(4) 274-280 (Apr 1996), 9A664
Effect of consolidation on strain localization of soft clays, Comput Geotech 18(4) 311-339 (1996), 11A564

266G. Consolidation, settlement, and compaction

Characterization of preferential flow paths in compacted sand-clay mixtures, J Geotech Eng 121(9) 652-659 (Sep 1995), 1A692
Yielding and critical state of a collapsible unsaturated silty soil, Geotechnique 45(3) 465-477 (Sep 1995), 2A523
Infiltration and saturated hydraulic conductivity of compacted clay, J Geotech Eng 121(10) 713-722 (Oct 1995), 2A1170
Analytical solution for 2D dynamic consolidation in frequency domain, Int J Numer Anal Methods Geomech 19(10) 663-682 (Oct 1995), 3A571
Description of consolidation processes in saturated reinforced subsoils, Arch Mech 47(3) 635-643 (1995), 3A572
Leakage control in long-duration testing of triaxial specimens, J Geotech Eng 121(11) 810-813 (Nov 1995), 3A573
Settlement of a soil stratum subjected to an earthquake, Int J Numer Anal Methods Geomech 19(11) 813-821 (Nov 1995), 4A604
Feature of differential settlement as fractal and its application for settlement estimation (Japanese), Proc JSCE 529(III-33) 69-81 (Dec 1995), 7A695
Finite element modeling for land displacements due to pumping, Int J Numer Anal Methods Geomech 20(2) 79-99 (Feb 1996), 7A696
One-dimensional compression of sands at high pressures, J Geotech Eng 122(2) 147-154 (Feb 1996), 7A697
Study of pore pressures induced in laboratory dynamic consolidation, Comput Geotech 18(2) 127-143 (1996), 8A531
Genesis and Properties of Collapsible Soils - Series C: Math and Phys Sci, Vol 468 (Kluwer, MA, 1995) 9N14
Fracture behavior of a cohesive soil under crushing stress loading, J Terramech 32(4) 167-179 (Jul 1995), 9A665
Sedimentation and self-weight consolidation: General unifying theory, Geotechnique 46(1) 103-113 (Mar 1996), 9T666
Electrical resistivity of compacted clays, J Geotech Eng 122(5) 397-406 (May 1996), 10A651
Horizontal coefficient of consolidation c_h (Japanese), Proc JSCE 535(III-34) 1-12 (Mar 1996), 10A652
Identification of compaction characteristics by Neuronets, Comput Geotech 18(3) 167-187 (1996), 10A653
Influence of soil type on collapse settlement of compacted soils during inundation (Japanese), Proc JSCE 535(III-34) 65-72 (Mar 1996), 10A654
Mathematical interpretation of the volumetric instability of loose sands, Comput Geotech 18(3) 225-244 (1996), 10A677
Probabilistic analysis of foundation settlements, Comput Geotech 18(4) 291-309 (1996), 11A565
Dynamic consolidation of mixed fill: A cost-effective alternative to pilin: A case record, Geotechnique 46(2) 351-355 (Jun 1996), 12T645
Mandel's problem revisited, Geotechnique 46(2) 187-195 (Jun 1996), 12A646
Origins of the theory of consolidation: The Terzaghi-Fillunger dispute, Geotechnique 46(2) 175-186 (Jun 1996), 12A647

266H. Soil and sand liquefaction

Liquefaction analysis of saturated reinforced granular soils, J Geotech Eng 121(9) 645-651 (Sep 1995), 1A693
Estimation of liquefaction potential by in situ methods, Earthquake Spectra 11(3) 431-455 (Aug 1995), 3A574
Liquefaction under random loading: Unit energy approach, J Geotech Eng 121(11) 776-781 (Nov 1995), 3A575
Numerical simulation of surface-sheared-sand layer (Japanese), Proc JSCE 521(II-32) 101-112 (Aug 1995), 3A889
Development of gravel drain system as a countermeasure for soil liquefaction (Japanese), Proc JSCE 522(VI-28) 35-38 (Sep 1995), 4T605
Empirical criteria for liquefaction in sands via standard penetration tests and seismic wave energy, Soil Dyn Earthquake Eng 14(6) 419-426 (1995), 4A606

Oscillatory soil response and liquefaction in an unsaturated layered seabed, Int J Numer Anal Methods Geomech 19(12) 825-849 (Dec 1995), 5A547
Aspects of compaction grouting of liquefiable soil, J Geotech Eng 121(12) 844-855 (Dec 1995), 6A529
Liquefaction of reclaimed island in Kobe, Japan, J Geotech Eng 122(1) 39-49 (Jan 1996), 6A530
Liquefaction of sand under bidirectional monotonic and cyclic loading, J Geotech Eng 121(12) 870-878 (Dec 1995), 6A531
Liquefaction resistance using CPT and field case histories, J Geotech Eng 121(12) 856-869 (Dec 1995), 6A532
Neural-network modeling of CPT seismic liquefaction data, J Geotech Eng 122(1) 70-73 (Jan 1996), 6A533
Residual strength and large-deformation potential of loose silty sands, J Geotech Eng 121(12) 896-906 (Dec 1995), 6A534
Study on countermeasure for liquefaction of reclaimed ground by coal fly ash (Japanese), Proc JSCE 529(III-33) 113-123 (Dec 1995), 7A698
Study on soil water behavior during unsaturated sandy ground freezing and thawing under closed system (Japanese), Proc JSCE 529(III-33) 83-92 (Dec 1995), 7T699
Linearized evaporation from a soil of finite depth near a wetted region, Quart J Mech Appl Math 49(1) 49-64 (Feb 1996), 7A1237
Simplified procedure for estimating shaking-induced pore-water pressure dissipation of layered saturated sands (Chinese), J Dalian Univ Tech 35(2) 216-221 (Apr 1995), 8A535
Liquefaction resistance of silty sand based on in situ frozen samples, Geotechnique 46(1) 153-156 (Mar 1996), 9T667
Interpretation of pressure-meter unloading tests in sands, Geotechnique 46(1) 17-31 (Mar 1996), 9A674
Plane shear waves and loss of stability in a saturated granular body, Mech Cohesive-Frictional Mat 1(1) 25-44 (Jan 1996), 10A256
Effect of the dewatered vertical drain method against soil liquefaction (Japanese), Proc JSCE 535(III-34) 155-164 (Mar 1996), 10A655
Liquefaction strength and post-liquefaction volumetric change of non-plastic silt (Japanese), Proc JSCE 535(III-34) 145-154 (Mar 1996), 10A656
Simplified multi-layered flow model for use in a landfill design, Comput Geotech 18(4) 245-266 (1996), 11A566

266J. Plasticity, viscoelasticity, and viscoplasticity

Impedances for radially inhomogeneous viscoelastic soil media, J Eng Mech 121(9) 939-947 (Sep 1995), 1A694
Strain localization analysis using a viscoplastic softening model for clay, Int J Plasticity 11(5) 523-545 (1995), 1A695
Large strain analytical solution for cavity contraction in dilatant soils, Int J Numer Anal Methods Geomech 19(11) 793-811 (Nov 1995), 4A607
Influence of the law of dynamic load drop on the deformability of sandy soils, Mech Solids 30(2) 170-172 (1995), 5T548
Parametric variational principle for elastic-plastic consolidation analysis of saturated porous media, Int J Numer Anal Methods Geomech 19(12) 851-867 (Dec 1995), 5A549
Analysis of elastoplastic seismologic response on soft clay foundation (Chinese), J Vib Eng 8(4) 317-323 (Dec 1995), 6A535
Constitutive relations for granulate-liquid mixtures with a poetic constituent, Mech Mat 22(2) 93-103 (Feb 1996), 9A656
Plane shear waves and loss of stability in a saturated granular body, Mech Cohesive-Frictional Mat 1(1) 25-44 (Jan 1996), 10A256
Time dependent mechanical behavior of loose sands, Mech Cohesive-Frictional Mat 1(1) 45-73 (Jan 1996), 10A650

266K. Dynamics

Experimental investigation of effects of vibration upon elastic and cohesive properties of beds of wet sand, Shock Vib 2(5) 383-392 (1995), 1A696
Influence of viscous coupling in propagation of elastic waves in saturated soil, J Geotech Eng 121(9) 636-644 (Sep 1995), 1A697
Building response due to subway train traffic, J Geotech Eng 121(11) 747-765 (Nov 1995), 3A149
Dynamic response of the subterranean gas piping to the selected kind of impact loads (Polish), Inzynieria Budownictwo 52(9) 460-463 (1995), 3A576
Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), J Vib Eng 8(3) 269-273 (Sep 1995), 4A608
Time effects on dynamic soil properties under random excitation conditions, Soil Dyn Earthquake Eng 14(6) 439-443 (1995), 4A609
Strength enhancement in particulate solids under high loading rates, Earthquake Eng Struct Dyn 24(12) 1609-1622 (Dec 1995), 5A550
Wave motions during soil-structure interaction by time domain BEM (Japanese), Proc JSCE 525(I-33) 237-245 (Oct 1995), 5A551
Dynamic plate-soil interaction: Finite and infinite, flexible, and rigid plates on homogeneous layered or Winkler soil, Soil Dyn Earthquake Eng 15(1) 51-59 (1996), 5A1314
Analysis of elastoplastic seismologic response on soft clay foundation (Chinese), J Vib Eng 8(4) 317-323 (Dec 1995), 6A535
Geotechnical Earthquake Engineering (Prentice-Hall, Englewood Cliffs NJ, 1995) 9R10
Live load induced vibrations in Ullevi stadium: Dynamic soil analysis, Soil Dyn Earthquake Eng 15(3) 171-188 (1996), 9A668
Two-dimensional dynamics of a stratified elastic subsoil layer, Arch Appl Mech 66(4) 284-290 (Mar 1996), 9A669
Complex modal analysis of a continuous model with radiation damping, J Sound Vib 192(1) 15-33 (Apr 1996), 10A657
Dynamic properties of cohesive soils treated with lime, J Geotech Eng 122(5) 382-389 (May 1996), 10A658
Dynamics of a powered disk in clay soil, J Terramech 32(5) 231-244 (Sep 1995), 10A659
Finite deformation dynamic analysis of saturated soils, Arch Mech 48(2) 281-310 (1996), 10A660
Time domain response of a 1D soil-structure interacting model via complex analysis, Eng Struct 18(6) 425-436 (Jun 1996), 10A661
Effects of frequency on damping properties of sand, Soil Dyn Earthquake Eng 15(4) 269-278 (1996), 12A648
Nonlinear analysis for dynamic lateral pile response, Soil Dyn Earthquake Eng 15(4) 233-244 (1996), 12A652

266L. Frost and permafrost

Reinforcement percentage effects on bending strength of soil-ice mixtures, J Cold Regions Eng 9(3) 152-163 (Sep 1995), 1A698
Problem of primary frost heave with frost penetration, Math Methods Appl Sci 18(12) 995-1011 (Sep 1995), 2A515
Considerations in determining thermal diffusivity from temperature time series using finite difference methods, Cold Regions Sci Tech 23(4) 333-341 (Aug 1995), 3A577
Detection of heat-mass transfer regime transitions in the active layer using fractal geometric parameters, Cold Regions Sci Tech 23(4) 293-304 (Aug 1995), 3A578
Estimating soil temperatures and frost in the lake effect snowbelt regions, Michigan, USA, Cold Regions Sci Tech 23(4) 317-332 (Aug 1995), 3A579
Method for continuous measurement of ice cover thickness, Cold Regions Sci Tech 23(4) 389-391 (Aug 1995), 3A580
Experimental study on frost heaving force of natural ground (Japanese), Proc JSCE 523(III-32) 133-140 (Sep 1995), 4A610
Frost formation around a vertical cylinder in a wet air stream, J Brazilian Soc Mech Sci 17(2) 135-146 (1995), 4A1185
Elasticity of partially saturated frozen sand, Geophys 61(1) 288-293 (Feb 1996), 6A536
Research on theory and test on defrosting soil using microwave power (Chinese), J Dalian Univ Tech 35(1) 104-107 (Feb 1995), 8A536
Freezing point depression of soil water as a function of mineral composition and physical properties, Arch Hydro-Eng Env Mech 51(3-4) 25-36 (1994), 9T670
Application of foam insulation for remediation of degraded permafrost, Cold Regions Sci Tech 24(2) 205-212 (May 1996), 11A567

266Y. Computational techniques

Analysis of cantilever sheet-pile walls in cohensionless soil, J Geotech Eng 121(9) 629-635 (Sep 1995), 1A699
Uncoupling of coupled flows in soil: A FEM, Int J Numer Anal Methods Geomech 19(8) 537-553 (Aug 1995), 1A700
Contact detection algorithms for 3D ellipsoids in discrete element modeling, Int J Numer Anal Methods Geomech 19(9) 653-659 (Sep 1995), 2A516
Dynamic response of the subterranean gas piping to the selected kind of impact loads (Polish), Inzynieria Budownictwo 52(9) 460-463 (1995), 3A576
Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), J Vib Eng 8(3) 269-273 (Sep 1995), 4A608
Boundary element technique for geotechnical problems of incompressible soils, Commun Numer Methods Eng 11(11) 927-935 (Nov 1995), 4A611
Determining relative density of sands from CPT using fuzzy sets, J Geotech Eng 122(1) 1-6 (Jan 1996), 6A537
Role of topography and anisotropy when selecting unlined pressure-tunnel alignment, J Geotech Eng 121(12) 879-885 (Dec 1995), 6A538
Estimation of parameters in geotechnical backanalysis - I: Maximum likelihood approach, Comput Geotech 18(1) 1-27 (1996), 7A700
Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, Comput Geotech 18(1) 29-46 (1996), 7A701
Static stiffness of unbounded soil by FEM, J Geotech Eng 122(4) 267-273 (Apr 1996), 9A38
Deformations due to gravity in random elastic soil medium - Part I: Uniaxial strain state, Arch Hydro-Eng Env Mech 51(3-4) 53-74 (1994), 9A671
Deformations due to gravity in random elastic soil medium - Part 2: Plane strain analysis, Arch Hydro-Eng Env Mech 51(3-4) 75-98 (1994), 9A672
Multiphase medium model for localization and postlocalization simulation in geomaterials, Mech Cohesive-Frictional Mat 1(1) 95-114 (Jan 1996), 10A647
Identification of compaction characteristics by Neuronets, Comput Geotech 18(3) 167-187 (1996), 10A653
Stochastic FE analysis of soil layers with random interface, J Eng Mech 122(4) 361-369 (Apr 1996), 10A662
Stress analysis of a sand particle with interface in cement paste under uniaxial loading, Int J Numer Anal Methods Geomech 20(4) 275-285 (Apr 1996), 10A663
Numerical Models in Geomechanics - Proc of 5th Int Symp, NUMOG V, Davos, Switzerland, Sept 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N28
Modeling of interface problems by the FEM with considerable displacements, Comput Geotech 19(1) 23-45 (1996), 12A643
Asymptotic behavior of semidiscrete FE approximations of Biot's consolidation problem, SIAM J Numer Anal 33(3) 1065-1083 (Jun 1996), 12A1350

266Z. Experimental techniques

Application of non-associative hierarchical model for geologic materials for active earth pressure experiment, Int J Numer Anal Methods Geomech 19(8) 573-580 (Aug 1995), 1A701
Novel technique for the evaluation of membrane penetration, Geotechnique 45(3) 545-548 (Sep 1995), 2T517
Practical geometry correction for interpreting pressuremeter tests in clay, Geotechnique 45(3) 549-553 (Sep 1995), 2T518
Practical, economical and precise volume change measurement device, Geotechnique 45(3) 541-544 (Sep 1995), 2T519
Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, Opt Lasers Eng 23(5) 277-290 (1995), 3A520
Experimental study on frost heaving force of natural ground (Japanese), Proc JSCE 523(III-32) 133-140 (Sep 1995), 4A610
Cyclic strengths of clay and sand by strain rate controlled cyclic triaxial test (Japanese), Proc JSCE 523(III-32) 9-18 (Sep 1995), 4A612
Influence of the law of dynamic load drop on the deformability of sandy soils, Mech Solids 30(2) 170-172 (1995), 5T548
Applicability of normal and shear stress cells embedded in cohesionless materials, Exp Mech 35(4) 315-321 (Dec 1995), 5A552
Experimental determination of tangential stresses on the surface of an indenter dynamically forced into soil, Mech Solids 30(2) 173-175 (1995), 5T553
Mechanical and load-settlement characteristics of two lunar soil simulants, J Aerospace Eng 9(1) 1-9 (Jan 1996), 6A224
Polymer impregnation to assist undisturbed sampling of cohesionless soils, J Geotech Eng 122(3) 209-215 (Mar 1996), 8A537
Pulse transmission system for measuring wave propagation in soils, J Geotech Eng 122(4) 302-308 (Apr 1996), 9A279
Device for the *in situ* determination of soil deformation modulus, J Terramech 32(4) 199-204 (Jul 1995), 9A673
Interpretation of pressure-meter unloading tests in sands, Geotechnique 46(1) 17-31 (Mar 1996), 9A674
Time dependent mechanical behavior of loose sands, Mech Cohesive-Frictional Mat 1(1) 45-73 (Jan 1996), 10A650
Coefficient of permeability from AC electroosmosis experiments - I: Theory, J Geotech Eng 122(5) 346-354 (May 1996), 10A664
Coefficient of permeability from AC electroosmosis experiments - II: Results, J Geotech Eng 122(5) 355-364 (May 1996), 10A665
Methodology of evaluating a frictional coefficient and a deformation modulus based on geosythetics pull-out tests (Japanese), Proc JSCE 535(III-34) 135-143 (Mar 1996), 10A666
Study of clay-cement slurries with mechanical and electromagnetic waves, J Geotech Eng 122(5) 365-373 (May 1996), 10A667
Study on vertical earth pressure distribution in sand by trap door test (Japanese), Proc JSCE 534(VI-30) 77-85 (Mar 1996), 10A668
Uniformity evaluation of cohesionless specimens using digital image analysis, J Geotech Eng 122(5) 390-396 (May 1996), 10A669
Determination and interpretation of fractal properties of the sandstone pore system, Mat Struct 29(188) 195-205 (May 1996), 11A568
Pre-failure Deformation of Geomaterials - Proc of Int Symp, Sapporo, Japan, Sept 1994 (Balkema, Rotterdam, Netherlands, 1995) 12N29
Unsaturated soils-Sols non satures - Proc of 1st Int Conf, UNSAT 95, Paris, France, Sept 1995 (Balkema, Rotterdam, Netherlands, 1996) 12N37
Objective criteria for determining G_{max} from bender element tests, Geotechnique 46(2) 357-362 (Jun 1996), 12T649

268. SOIL MECHANICS (APPLIED)

Novel equipment and Technology for tilling the soil, J Machinery Manuf Reliab 3 1-5 (1995), 6A539

268B. Shallow foundations

Effect of foundation nonlinearity of modal properties of offshore towers, J Geotech Eng 121(9) 660-668 (Sep 1995), 1A176
Dynamic modeling and response of rigid embedded cylinders, J Eng Mech 121(9) 1026-1035 (Sep 1995), 1A702
Centrifugal modeling of bearing capacity of shallow foundations on sands, J Geotech Eng 121(10) 704-712 (Oct 1995), 2A520
Geotechnical Engineering: Foundation Design (Wiley, New York, 1994) 4R10
Experimental investigations of pad foundation behavior, Struct Eng Review 7(4) 301-321 (Nov 1995), 4A613
Evaluation of interaction effects on the system period and the system damping due to foundation embedment and layer depth, Soil Dyn Earthquake Eng 15(1) 11-27 (1996), 5A149
Consideration on factor of safety in thickness design of geomembrane used as a liner subjected to deformation (Japanese), Proc JSCE 529(III-33) 191-196 (Dec 1995), 7T702
Numerical bearing capacity test by DEM on granular assemblies with sandbag-like reinforcement (Japanese), Proc JSCE 529(III-33) 125-134 (Dec 1995), 7T703
Stress level and soil structure effects on bearing capacity characteristics of naturally deposited sand (Japanese), Proc JSCE 529(III-33) 135-144 (Dec 1995), 7A704
Red river U-frame lock No 1 backfill-structure-foundation interaction, J Geotech Eng 122(3) 216-225 (Mar 1996), 8A538
Active isolation of machine foundations by in-filled trench barriers, J Geotech Eng 122(4) 288-294 (Apr 1996), 9A239
Bearing capacity of shallow foundations on slopes, Arch Hydro-Eng Env Mech 52(1-2) 53-67 (1995), 9A675
Depth of influence of loaded areas, Geotechnique 46(1) 51-61 (Mar 1996), 9A676
Loading tests on circular and ring plates in very dense cemented sands, J Geotech Eng 122(4) 281-287 (Apr 1996), 9A677
Modeling of subsoil flexibility in computations of complex 3D structural schemes of buildings, Arch Civil Eng 42(1) 83-103 (1996), 9A678
Computational approach to path-dependent nonlinear RC-soil interaction, Proc JSCE 532(V-30) 197-207 (Feb 1996), 9A908
Analysis of soil-structure interaction accounting for soil plasticizing (Polish), Inzynieria Budownictwo 53(5) 309-312 (1996), 10T670

268C. Deep foundation, piles

Experimental and numerical study of sand-steel interfaces, Int J Numer Anal Methods Geomech 19(8) 513-536 (Aug 1995), 1A703
Geotechnical Engineering: Foundation Design (Wiley, New York, 1994) 4R10
Model studies on bored piles in stiff expansive clay, Int J Struct 15(1) 35-39 (Jun 1995), 4A614
Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), Proc JSCE 523(III-32) 111-123 (Sep 1995), 4A623

Behavior of high ductility aseismic joint spliced piles subjected to liquefaction-induced large ground displacements (Japanese), Proc JSCE 525(I-33) 287-298 (Oct 1995), 5T554
Studies on the behavior of axially loaded tapered piles by the FEM, Int J Numer Anal Methods Geomech 19(12) 869-888 (Dec 1995), 5A555
Nonlinear response of single piles under lateral inertial and seismic loads, Soil Dyn Earthquake Eng 15(1) 29-43 (1996), 5A1322
Analysis of piled raft systems in layered soil, Int J Numer Anal Methods Geomech 20(1) 57-72 (Jan 1996), 6A540
Laboratory modeling of laterally-loaded drilled shafts in clay, J Geotech Eng 121(12) 827-835 (Dec 1995), 6A541
Three-dimensional photoelastic analysis of pile caps, J Strain Anal Eng Des 31(1) 35-42 (Jan 1996), 6A542
Forces in pile foundations under seismic loading, J Eng Mech 122(1) 46-53 (Jan 1996), 6A1272
Finite layer analysis of vertically loaded piles and pile groups, Comput Geotech 18(1) 47-63 (1996), 7A705
New model for the analysis of settlement of drilled piers, Int J Numer Anal Methods Geomech 20(2) 143-152 (Feb 1996), 7A706
Nonlinear lateral pile deflection prediction in sands, J Geotech Eng 122(2) 130-138 (Feb 1996), 7A707
Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), Proc JSCE 529(III-33) 177-189 (Dec 1995), 7A708
Negative skin friction on rigid and deformable piles, Comput Geotech 18(2) 109-126 (1996), 8A539
Underseepage analysis of levees on two-layer and three-layer foundation, Comput Geotech 18(2) 85-107 (1996), 8A540
Dynamic soil-pile-foundation-structure interaction: Records and predictions, Geotechnique 46(1) 33-50 (Mar 1996), 9A679
Energy dissipation capability of reinforced concrete bridge piers that fail in flexure at bottom (Japanese), Proc JSCE 532(V-30) 5-13 (Feb 1996), 9A914
Evaluation of ground properties in deep soil improvement method and its application to automization of construction (Japanese), Proc JSCE 535(III-34) 165-173 (Mar 1996), 10T671
In-situ test of ground improvement sand piles method by measuring the process of dewatering (Japanese), Proc JSCE 534(VI-30) 31-44 (Mar 1996), 10T672
Prediction of pile bearing capacity using artificial neural networks, Comput Geotech 18(3) 189-200 (1996), 10A673
Uplift behavior of piles with enlarged base in sand (Japanese), Proc JSCE 535(III-34) 127-134 (Mar 1996), 10A674
Numerical modeling of negative skin friction on pile groups, Comput Geotech 18(3) 201-224 (1996), 10A687
Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), Proc JSCE 537(I-35) 77-88 (Apr 1996), 11A569
Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), Proc JSCE 537(I-35) 291-302 (Apr 1996), 11A570
Application of an integrodifferential equation to the analysis of geotechnical problems, Struct Eng and Mech 4(3) 227-242 (May 1996), 11A572
Developments in Deep Foundations and Ground Improvement-Schemes - Proc of Symp, Bangkok, Thailand, 1994 (Balkema, Rotterdam, Netherlands, 1995) 12N22
Deflection of piles during driving, Geotechnique 46(2) 235-243 (Jun 1996), 12A650
Fast shearing of pre-existing shear zones in soil, Geotechnique 46(2) 197-233 (Jun 1996), 12A651
Nonlinear analysis for dynamic lateral pile response, Soil Dyn Earthquake Eng 15(4) 233-244 (1996), 12A652
Simple design tools for pile raft foundations, Geotechnique 46(2) 313-328 (Jun 1996), 12A653

268D. Machine foundations

Numerical studies of the moment carrying capacity of a short pier foundation in a clay soil, Int J Numer Anal Methods Geomech 20(6) 431-442 (Jun 1996), 12A654

268E. Anchoring

Analysis and design of mushroom slabs with a strut-tie model, Comput Struct 58(2) 429-434 (Jan 1996), 3A581
Profile and frictional capacity of embedded anchor chains, J Geotech Eng 121(11) 797-803 (Nov 1995), 3A582
Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), Proc JSCE 529(III-33) 177-189 (Dec 1995), 7A708
Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), Proc JSCE 537(I-35) 119-131 (Apr 1996), 11A779

268F. Stability

Gradient plasticity approach to FE predictions of soil instability, Arch Mech 47(2) 353-377 (1995), 1A704
Landslides modeled as bifurcations of creeping slopes with nonlinear friction law, Int J Solids Struct 32(23) 3451-3464 (Dec 1995), 1A705
Stability analysis on earth reinforcement by using the velocity field method (Japanese), J Soc Mat Sci Japan 44(503) 990-993 (Aug 1995), 2A521
Theoretical investigation of the undrained stability of shallow submerged slopes, Geotechnique 45(3) 479-496 (Sep 1995), 2A522
Yeilding and critical state of a collapsible unsaturated silty soil, Geotechnique 45(3) 465-477 (Sep 1995), 2A523
Equivalences in the soil-structure interaction, Comput Struct 58(2) 367-380 (Jan 1996), 3A583
Modeling lateral sliding of slope due to liquefaction of sand layer, J Geotech Eng 121(11) 814-816 (Nov 1995), 3A584
Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), Proc JSCE 523(III-32) 41-48 (Sep 1995), 4A615
Discussion on stability of landslides considering on scatter of strength parameter (Japanese), Proc JSCE 523(III-32) 59-67 (Sep 1995), 4A616
Fundamental study on prediction of slope failure by acoustic emission (Japanese), Proc JSCE 523(III-32) 163-173 (Sep 1995), 4T617
Improvement of the kinematic bound for the stability of a vertical cut-off, Mech Res Commun 22(6) 533-540 (Dec 1995), 4T618
Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), Proc JSCE 522(VI-28) 133-142 (Sep 1995), 4T619
Slope Stability and Stabilization Methods (Wiley, New York, 1996) 5R17
Analytical model of progressive slope failure in waste containment systems, Int J Numer Anal Methods Geomech 20(1) 35-56 (Jan 1996), 6A543
Yield acceleration of lined landfills, J Geotech Eng 122(2) 156-158 (Feb 1996), 7A709
Applications of statistical and GIS techniques to slope instability zonation (1:50.000 Fabriano geological map sheet), Soil Dyn Earthquake Eng 15(2) 83-94 (1996), 8A541
Experimental investigation of soil seismic deformation property (Chinese), J Dalian Univ Tech 36(1) 76-82 (Jan 1996), 8A1327
Nonlinear fault behavior near underground excavations: A BE approach, Int J Numer Anal Methods Geomech 20(3) 173-190 (Mar 1996), 8A1371
Soft layer to control soil arching above a buried structure, Eng Struct 18(5) 378-386 (May 1996), 9A680
Earth slide on geomembrane, J Geotech Eng 122(5) 408-411 (May 1996), 10A675
Improvement of the accuracy for extracting areas in danger of the landslide using satellite multispectral data (Japanese), Proc JSCE 534(VI-30) 173-184 (Mar 1996), 10T676
Mathematical interpretation of the volumetric instability of loose sands, Comput Geotech 18(3) 225-244 (1996), 10A677
Deformation analysis of soft ground reinforced by columnar inclusions, Comput Geotech 18(4) 267-290 (1996), 11A571
Fast shearing of pre-existing shear zones in soil, Geotechnique 46(2) 197-233 (Jun 1996), 12A651
Physico-chemical effects on the behavior of a coastal mudslide, Geotechnique 46(2) 259-278 (Jun 1996), 12A655

268G. Earth dams and embankments

The dynamics of the precessional motions of a system of two rigid bodies in a gravitational field, J Appl Math Mech 59(2) 175-185 (1995), 2A524
Parametric representation of embankments, Z Angew Math Mech 75(9) 726-728 (1995), 2T525
Aseismic evaluation of geogrid-reinforced embankments with steep slope using centrifuge modeling, Proc JSCE 523(III-32) 151-161 (Sep 1995), 4A620
Simplified formula of the natural period of CFRD (Chinese), J Vib Eng 8(3) 274-280 (Sep 1995), 4A621
Stability analysis of an earth dam under steady state seepage, Comput Struct 58(6) 1075-1082 (Mar 1996), 5A556
Seismic rehabilitation of earth dams, J Geotech Eng 122(1) 7-20 (Jan 1996), 6A544
Investigation on leakage characteristics of retaining wall by impedance measurement (Japanese), J Soc Mat Sci Japan 44(507) 1470-1475 (Dec 1995), 7A714
Behavioral study of a reinforced analogical soil under external loads, Geotextiles Geomembranes 14(1) 43-56 (1996), 12A656
Design of reinforced fill systems to support footings overlying cavities, Geotextiles Geomembranes 14(1) 57-72 (1996), 12A657

268H. Lateral earth pressures

Liquefaction-induced ground-surface disruption, J Geotech Eng 121(11) 805-809 (Nov 1995), 3A585
Centrifugal model test for reducing the earth pressure on the rigid culvert (Japanese), Proc JSCE 529(III-33) 37-45 (Dec 1995), 7A710
Study on earth pressure at equilibrium and horizontal subgrade reaction coefficient of an earth wall embedment in braced excavation work on clayey soil (Japanese), Proc JSCE 534(VI-30) 153-172 (Mar 1996), 10A678
Study on observational construction control for an earth-retaining works based on minimum measured data (Japanese), Proc JSCE 534(VI-30) 45-53 (Mar 1996), 10A679

268I. Excavating and tunneling

Energetically most efficient trajectories for the heavy machine shoving process, Eng Trans 43(1-2) 169-182 (1995), 1A706
Effects of modeling soil nonlinearity and wall insulation on back-analysis of deep excavation in stiff clay, J Geotech Eng 121(10) 687-695 (Oct 1995), 2A526
Fundamental analysis of automatic excavation, J Aerospace Eng 8(4) 175-179 (Oct 1995), 2A527
Influence of tunnel excavation on the hydraulic head, Int J Numer Anal Methods Geomech 19(10) 725-746 (Oct 1995), 3A586
Seepage flow around tunnels in swelling rock, Int J Numer Anal Methods Geomech 19(10) 705-724 (Oct 1995), 3A587
Improvement of the kinematic bound for the stability of a vertical cut-off, Mech Res Commun 22(6) 533-540 (Dec 1995), 4T618
Determination and renewal of the optimum pumping rates for dewatering during excavation based on Bayesian decision theory and observational method (Japanese), Proc JSCE 523(III-32) 69-81 (Sep 1995), 4A622
Role of topography and anisotropy when selecting unlined pressure-tunnel alignment, J Geotech Eng 121(12) 879-885 (Dec 1995), 6A538
Modeling and control of excavator dynamics during digging operation, J Aerospace Eng 9(1) 10-18 (Jan 1996), 6A545
Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, Comput Geotech 18(1) 29-46 (1996), 7A701
Centrifuge modeling of shield tunnel construction processes (Japanese), Proc JSCE 529(III-33) 47-56 (Dec 1995), 7A711
Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), Proc JSCE 529(III-33) 19-28 (Dec 1995), 7T712
Influence of axial stress and dilatancy on rock tunnel stability, J Geotech Eng 122(2) 139-146 (Feb 1996), 7A717
Study on earth pressure at equilibrium and horizontal subgrade reaction coefficient of an earth wall embedment in braced excavation work on clayey soil (Japanese), Proc JSCE 534(VI-30) 153-172 (Mar 1996), 10A678
Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), Proc JSCE 534(VI-30) 185-200 (Mar 1996), 10A680
Micromechanics-based continuum model for rock masses and analysis of the excavation of underground power cavern (Japanese), Proc JSCE 535(III-34) 23-41 (Mar 1996), 10A681
Moving characteristics of shield tunneling machine (Japanese), Proc JSCE 535(III-34) 103-114 (Mar 1996), 10A682
Three-dimensional FE analysis of deep excavations, J Geotech Eng 122(5) 337-345 (May 1996), 10A683
Numerical simulation of bucket trajectory control in autonomous shoveling of fragment rocks by using a wheel dozer (Japanese), Proc JSCE 534(VI-30) 87-96 (Mar 1996), 10A688
Wave-induced uplift force acting on a submarine buried pipeline: FE formulations and verification of computations, Comput Geotech 19(1) 47-73 (1996), 12A658

268J. Highways, runways, and railways

Asphalt pavement structural design for railway container yards (Japanese), Proc JSCE 590(V-28) 47-54 (Aug 1995), 2A528
Neurocomputing pavement performance model and its application to project level pavement management system (Japanese), Proc JSCE 590(V-28) 195-201 (Aug 1995), 2T529
Concrete pavement layer moduli based on stable deflection, Proc JSCE 526(II) 143-149 (Nov 1995), 6A546
Ultrasonic characteristics in the description of the surface layer of a flexible pavement, Arch Civil Eng 42(1) 105-124 (1996), 9A681
Warping stress equation at the transverse joint edge of concrete pavement slab based on FEM analysis (Japanese), Proc JSCE 532(V-30) 89-96 (Feb 1996), 9A926

268K. Trafficability

Measurement of forces acting on 4WD-4WS tractor tires during steady-state circular turning in a rice field, J Terramech 32(5) 263-283 (Sep 1995), 10A684
Tractive performance and compaction effect of a road roller running on a weak sandy soil, J Terramech 32(5) 245-261 (Sep 1995), 10A685

268L. Mechanical and chemical stabilization, incl geotextiles

Separation function of geotextile for road construction on soft subgrade soil (Japanese), J Soc Mat Sci Japan 44(503) 1011-1014 (Aug 1995), 2A530
Mathematical model for bore-injected cement grout installations, J Geotech Eng 121(11) 782-788 (Nov 1995), 3A588
Vegetation cover of earth structures (Polish), Inzynieria Budownictwo 52(10) 547-551 (1995), 3A589
Theory and practice of "spontaneous protective layer" in soil cutting, J Terramech 32(2) 99-104 (Mar 1995), 5A557
Semi-empirical formulae in design of reinforced earth structures, Arch Civil Eng 41(4) 525-540 (1995), 9A682
Developments in Deep Foundations and Ground Improvement-Schemes - Proc of Symp, Bangkok, Thailand, 1994 (Balkema, Rotterdam, Netherlands, 1995) 12N22
Behavioral study of a reinforced analogical soil under external loads, Geotextiles Geomembranes 14(1) 43-56 (1996), 12A656
Centrifuge modeling of an embankment on soft clay reinforced with a geogrid, Geotextiles Geomembranes 14(1) 1-17 (1996), 12A659
Geotextile characterization and pore-size distribution - Part II: A review of test methods and results, Geosynthetics Int 3(2) 155-180 (1996), 12A660
Influence of strain rate, specimen length and confinement on measured geotextile properties, Geosynthetics Int 3(2) 205-225 (1996), 12A661
Interface shear behavior of landfill composite liner systems: A FE analysis, Geosynthetics Int 3(2) 247-275 (1996), 12A662
Out-of-plane tensile behavior of geosynthetic clay liners, Geosynthetics Int 3(2) 277-296 (1996), 12A663
Pull-out resistance of geogrids in reinforced soil, Geotextiles Geomembranes 14(1) 19-42 (1996), 12A664
Strain-softening behavior of waste containment system interfaces, Geosynthetics Int 3(2) 181-203 (1996), 12A665

268Y. Computational techniques

Neurocomputing pavement performance model and its application to project level pavement management system (Japanese), Proc JSCE 590(V-28) 195-201 (Aug 1995), 2T529
Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, Comput Geotech 18(1) 29-46 (1996), 7A701
Distinct element method with the effect of moment transfer at the contact points (Japanese), Proc JSCE 529(III-33) 145-154 (Dec 1995), 7A713
Semi-empirical formulae in design of reinforced earth structures, Arch Civil Eng 41(4) 525-540 (1995), 9A682
Prediction of pile bearing capacity using artificial neural networks, Comput Geotech 18(3) 189-200 (1996), 10A673
Improved viscous boundary for dynamic soil-structure interaction, Comp Assisted Mech Eng Sci 3(1) 53-64 (1996), 10A686
Numerical modeling of negative skin friction on pile groups, Comput Geotech 18(3) 201-224 (1996), 10A687
Numerical simulation of bucket trajectory control in autonomous shoveling of fragment rocks by using a wheel dozer (Japanese), Proc JSCE 534(VI-30) 87-96 (Mar 1996), 10A688
Simple numerical model for analysis of propped embedded retaining walls, Int J Solids Struct 33(16) 2357-2376 (Jul 1996), 10A689

Optimization of rotary effectors of a modular system for performing a set of operations, J Machinery Manuf Reliab 6 1-6 (1995), 10A1027
Application of an integrodifferential equation to the analysis of geotechnical problems, Struct Eng and Mech 4(3) 227-242 (May 1996), 11A572
Interaction analysis of strip footing resting on a non-homogeneous elastic medium, Comput Struct 60(1) 79-86 (Jul 1996), 11A573
Wave-induced uplift force acting on a submarine buried pipeline: FE formulations and verification of computations, Comput Geotech 19(1) 47-73 (1996), 12A658

268Z. Field testing and sampling

Practical, economical and precise volume change measurement device, Geotechnique 45(3) 541-544 (Sep 1995), 2T519
Evaluation of deformation-strength properties of in-situ cement-treated soils (Japanese), J Soc Mat Sci Japan 44(503) 994-997 (Aug 1995), 2A531
Cumulative mass approach for column testing, J Geotech Eng 121(10) 696-703 (Oct 1995), 2A1168
Experimental investigations of pad foundation behavior, Struct Eng Review 7(4) 301-321 (Nov 1995), 4A613
Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), Proc JSCE 523(III-32) 111-123 (Sep 1995), 4A623
Investigation on leakage characteristics of retaining wall by impedance measurement (Japanese), J Soc Mat Sci Japan 44(507) 1470-1475 (Dec 1995), 7A714
Semi-empirical formulae in design of reinforced earth structures, Arch Civil Eng 41(4) 525-540 (1995), 9A682
In-situ test of ground improvement sand piles method by measuring the process of dewatering (Japanese), Proc JSCE 534(VI-30) 31-44 (Mar 1996), 10T672
Determination of drained friction angle of sands from CPT, J Geotech Eng 122(5) 374-381 (May 1996), 10A690
Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), Proc JSCE 537(I-35) 77-88 (Apr 1996), 11A569
Effects of inertial coupling in the interpretation of dynamic soil tests, Geotechnique 46(2) 245-257 (Jun 1996), 12A666
Finite element analysis of centrifuge tests on reinforced embankments on soft clay, Comput Geotech 19(1) 1-22 (1996), 12A667

270. ROCK MECHANICS

270A. General theory

Compression ridges in subsidence troughs, Geotechnique 45(3) 555-560 (Sep 1995), 2T513
Block theory and its application, Geotechnique 45(3) 383-423 (Sep 1995), 2A532
Nonlinear dynamics of a rigid block on a rigid base, J Appl Mech 63(1) 55-61 (Mar 1996), 9A683
Transient motion and overturning of a rocking block on a seesawing foundation, J Sound Vib 191(1) 177-187 (Mar 1996), 9T684
Critical strain of non-homogeneous rock masses (Japanese), Proc JSCE 535(III-34) 185-190 (Mar 1996), 10A691
Evaluation of cleaning methods for granite based on petrographic examinations, Mat Struct 29(187) 185-189 (Apr 1996), 10A692
Stress distributions around circular inclusion in infinite plane for nonlocal elasticity (matrix and circular inclusion have the same nonlocal coefficients), JSME Int J Ser A 39(2) 192-196 (Apr 1996), 10A693
Three-dimensional yield strength properties of jointed rock mass as a homogenized medium, Mech Cohesive-Frictional Mat 1(1) 1-24 (Jan 1996), 10A694
Continuum damage mechanics approach for time-independent and dependent behavior of brittle rock, Mech Res Commun 23(3) 257-265 (Jun 1996), 11T574
Developments of new technology in rock mechanics, from micro to macro - III: Applications to mechanical problems of rocks and rocks mass-micromechanics and homogenization method, J Soc Mat Sci Japan 45(4) 465-471 (Apr 1996), 11T575
Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992 (Balkema, Rotterdam, Netherlands, 1996) 12N25
Rock Mechanics - Proc of 35th US Symp, Lake Tahoe, June 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N33
Investigation of hydraulic aperture at surface-exposed rock fractures in situ, Geotechnique 46(2) 343-349 (Jun 1996), 12T668

270B. Mechanical properties

Development of anisotrophy in the incremental shear moduli for rock undergoing inelastic deformation, Mech Mat 21(3) 231-242 (Oct 1995), 2A533
Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), Arch Gornictwa 40(1) 53-62 (1995), 3A590
Seismic pore space compressibility and Gassmann's relation, Geophys 60(6) 1743-1749 (Dec 1995), 3A591
Simplified anisotropy parameters for transversely isotropic sedimentary rocks, Geophys 60(6) 1933-1935 (Dec 1995), 3A592
Spectral-based peak-shear-strength criterion for rock joints, J Geotech Eng 121(11) 789-796 (Nov 1995), 3A593
Fundamental study on seismic wave propagating property through several kinds of rock joint under uniaxial stress (Japanese), Proc JSCE 523(III-32) 49-58 (Sep 1995), 4T1325
Modeling added compressibility of porosity and the thermomechanical response of wet porous rock with application to Mt Helen Tuff, Int J Solids Struct 33(6) 761-793 (Mar 1996), 5A1304
Residual strength characteristics of soft rocks with a discontinuous plane (Japanese), Proc JSCE 529(III-33) 103-111 (Dec 1995), 7A715
Estimations of formation velocity, permeability, and shear-wave anisotropy using acoustic logs, Geophys 61(2) 437-443 (Apr 1996), 8A542
Stress sensitivity of sandstones, Geophys 61(2) 444-455 (Apr 1996), 8A543
Logarithmic stress-strain function for rocks and soils, Geotechnique 46(1) 157-164 (Mar 1996), 9T685
Dependence of transport properties of *in situ* rocks on pore fluid composition and temperature, Surveys Geophys 17(3) 289-306 (May 1996), 11A1320
Scales of rock permeability, Surveys Geophys 17(3) 245-263 (May 1996), 11A1324
Influence of local fluid flow and the microstructure on elastic and anelastic rock properties, Surveys Geophys 17(3) 347-360 (May 1996), 11A1331
Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992 (Balkema, Rotterdam, Netherlands, 1996) 12N25
Rock Foundations - Proc of Int Workshop, Tokyo, Japan, Sept 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N32
Hydration swelling of water-absorbing rocks: A constitutive model, Int J Numer Anal Methods Geomech 20(6) 403-430 (Jun 1996), 12A1345

270D. EElasticity, viscoelasticity, plasticity

Experimental and numerical investigations on transient creep of porous chalk, Mech Mat 21(2) 147-158 (Aug 1995), 1A707
Poroplastic behavior of porous rocks, Eur J Mech A 14(4) 577-587 (1995), 1A708
In situ creep of a linear viscoelastic rock around some noncircular tunnels - Part II: Boundary stress and displacement concentrations, Mec Appl 40(4-6) 485-502 (Dec 1995), 11A576

270F. Anisotropy and nonhomogeneity

Three-dimensional yield strength properties of jointed rock mass as a homogenized medium, Mech Cohesive-Frictional Mat 1(1) 1-24 (Jan 1996), 10A694

270G. Failure mechanisms

Fracture Mechanics of Concrete and Rock: Applications of Fractures Mechanics to Concrete, Rock, and Other Quasi Brittle Materials (Wiley, New York, 1995) 1R17
Method for the study of crack propagation in rock structures, Geotechnique 45(3) 447-463 (Sep 1995), 2A534
Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), Proc JSCE 523(III-32) 41-48 (Sep 1995), 4A615
Analysis of rockfall by the dynamic granular element method, Proc JSCE 523(III-32) 125-132 (Sep 1995), 4A624
Crack propagation models for rock fracture in a geothermal energy reservoir, SIAM J Appl Math 55(6) 1592-1608 (Dec 1995), 4A625
Identification of damage parameters for jointed rock mass based on the Kalman filter FEM (Japanese), Proc JSCE 523(III-32) 1-8 (Sep 1995), 4A626
Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), Proc JSCE 523(III-32) 19-29 (Sep 1995), 4A628
Dynamic damage constitutive model of concrete in uniaxial tension, Eng Fracture Mech 53(3) 449-455 (Feb 1996), 7A843
Interaction between the wellbore and pre-existing fractures, Int J Fracture 73(3) 183-200 (1995), 7A847
Two-stage model of fracture of rocks, Pure Appl Geophys 146(2) 253-263 (Mar 1996), 10A695
Simulation of stick-slip shear failure of rock masses by a nonlinear FEM (Japanese), Proc JSCE 537(I-35) 61-76 (Apr 1996), 11A577
Creep, damage and failure around large rectangular-like caverns and galleries, Mech Cohesive-Frictional Mat 1(2) 165-197 (Apr 1996), 11A651

270I. Rock strengthening (bolts, etc)

Evaluation of the effect of rock bolts based on field measurement results (Japanese), Proc JSCE 529(III-33) 1-9 (Dec 1995), 7A716

270K. Comminution (blasting, grinding, etc)

Construction Vibrations - Prentice Hall International Series in Civil Engineering and Engineering Mechanics (Prentice Hall, Upper Saddle River, NJ, 1996) 8R8
Analysis of braking a cylindrical boulder and application to bench blasting, Acta Mech 115(1-4) 79-85 (1996), 9A686
Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), Proc JSCE 534(VI-30) 185-200 (Mar 1996), 10A680

270L. Excavations (tunneling, etc)

Back analysis of viscoelastic rock masses with circular or elliptical tunnel (Japanese), J Soc Mat Sci Japan 44(504) 1183-1188 (Sep 1995), 3A594
Influence of axial stress and dilatancy on rock tunnel stability, J Geotech Eng 122(2) 139-146 (Feb 1996), 7A717
Creep, damage and failure around large rectangular-like caverns and galleries, Mech Cohesive-Frictional Mat 1(2) 165-197 (Apr 1996), 11A651

270Y. Computational techniques

Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), Proc JSCE 523(III-32) 41-48 (Sep 1995), 4A615
Analysis of rockfall by the dynamic granular element method, Proc JSCE 523(III-32) 125-132 (Sep 1995), 4A624
Numerical simulation of post peak deformational behavior of rocks under uniaxial compression tests (Japanese), Proc JSCE 523(III-32) 31-39 (Sep 1995), 4A627
Inverse analysis method of displacements in rock engineering (Chinese), J Comput Struct Mech Appl 12(1) 93-101 (Feb 1995), 9A687
Non-Gaussian solution for random rocking of slender rigid block, Probab Eng Mech 11(2) 87-96 (1996), 9A688
Rock Foundations - Proc of Int Workshop, Tokyo, Japan, Sept 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N32

270Z. Experimental techniques

Experimental determination of probability distributions for parameters of a salem limestone cap plasticity model, Mech Mat 21(2) 119-137 (Aug 1995), 1A709
Development of anisotrophy in the incremental shear moduli for rock undergoing inelastic deformation, Mech Mat 21(3) 231-242 (Oct 1995), 2A533
Densimetric and magnetic characteristics of crushed materials (Polish), Arch Gornictwa 40(1) 63-82 (1995), 3A1252
Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), Proc JSCE 523(III-32) 19-29 (Sep 1995), 4A628
Development of a novel technique to measure rock mass behavior in a borehole (Japanese), Proc JSCE 529(III-33) 197-202 (Dec 1995), 7A718
Effects of water and methanol sorption on surfaces of hard coals of different carbonization, Arch Gornictwa 40(3) 317-327 (1995), 9A689
Porosity of the Polish hard coals, Arch Gornictwa 40(3) 303-315 (1995), 9A690
Suggestion for the comparison methods of an amount of the particle breakage by the in-situ exposure and laboratory slaking tests of a soft rock (Japanese), Proc JSCE 535(III-34) 115-125 (Mar 1996), 10T696
Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, Surveys Geophys 17(3) 307-330 (May 1996), 11A578

272. MATERIALS PROCESSING

Analysis of the forming of parts from sheet blanks with electrocontact heating, J Machinery Manuf Reliab 5 65-68 (1995), 9A691

272B. Applications of plasticity theory

Experimental study of the plastic yielding of rolled sheet metals with the cruciform plate specimen, Int J Plasticity 11(5) 583-604 (1995), 1A526
Simulation of metal-forming processes by the FEM, Int J Plasticity 11(5) 623-651 (1995), 1A710
Critical matrix yielding stress and interfacial fracture in forming of metal matrix composite wires, JSME Int J Ser A 38(4) 625-630 (Oct 1995), 3A494
Analytical approach to asymmetrical hot-sheet rolling considering the effects of the shear stress and internal moment at the roll gap, J Mat Processing Tech 52(2-4) 399-424 (Jul 1995), 3A595
Approach to the modeling of contact friction during rolling, J Mat Processing Tech 53(3-4) 695-711 (Sep 1995), 3A596
Computer simulation to predict stresses and die loads during metal flow in incremental heading of shaped heads from cylindrical rods and some experiments, Int J Mech Sci 37(12) 1223-1245 (Dec 1995), 3A597
Improved method for the application of blank-holding force considering the sheet thickness in the deep-drawing simulation of planar anisotropic sheet, J Mat Processing Tech 52(2-4) 472-488 (Jul 1995), 3A598
Introduction of anisotropy in viscoplastic 2D and 3D FE simulations of hot forging, J Mat Processing Tech 53(3-4) 662-683 (Sep 1995), 3A599
Mathematical modeling of the internal bending moment at the top roll contact in multi-pass four-roll thin-plate bending, J Mat Processing Tech 52(2-4) 425-459 (Jul 1995), 3A600
Modeling hot flat-Rolling of components having curved profiles - Part I: Deformation analysis, Int J Mech Sci 37(12) 1269-1281 (Dec 1995), 3A601
Near net shape spline forging: An experimental investigation and a simple upper bound analysis, Int J Mech Sci 37(12) 1247-1268 (Dec 1995), 3A602
Rolling-deformation characteristics of clad materials determined by model experiments and numerical simulation: Numerical simulation of clad rolling by the rigid-plastic FEM, J Mat Processing Tech 53(3-4) 544-551 (Sep 1995), 3A603
Use of multiple flow fields for continuous solutions from upper-bound analysis, J Mat Processing Tech 52(2-4) 561-569 (Jul 1995), 3A604
Effect of die geometry and flow characteristics on viscoelastic annular swell, J Non-Newtonian Fluid Mech 60(2-3) 107-128 (Nov 1995), 4A445
Modeling drawbeads in sheet metal forming, Int J Mech Sci 38(1) 59-77 (Jan 1995), 4A629
Study of extrusion of sintered powder metals, Int J Mech Sci 38(1) 79-96 (Jan 1995), 4A630
Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, J Eng Indust 117(3) 372-377 (Aug 1995), 5A17
Development of a thermo-viscoplastic cutting model using FEM, Int J Machine Tools Manuf 36(3) 379-397 (Mar 1996), 5A558
Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part 1: Single edge oblique cutting, Int J Machine Tools Manuf 36(3) 307-323 (Mar 1996), 5A573
Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part 2: Two edge oblique cutting, Int J Machine Tools Manuf 36(3) 325-338 (Mar 1996), 5A574
Materials Processing Defects - Studies in Applied Mechanics series, Vol 43 (Elsevier Sci, New York, 1995) 6N24
Elasto-visco-plastic FE analysis of a cold upsetting test and stress-state validation by residual-stress measurements, J Mat Processing Tech 54(1-4) 120-128 (Oct 1995), 6A13
Analysis of the variation of the cold-rolling characteristics of rolling force, strip shape, stress and temperature, for 3D strip, J Mat Processing Tech 54(1-4) 326-340 (Oct 1995), 6A547
Consistent relationship between the stress- and strain-components and its application for analyzing the plane-stress forming process, J Mat Processing Tech 55(1) 1-4 (Nov 1995), 6A548

Determination of forward slip in H-beam rolling, J Mat Processing Tech 54(1-4) 114-119 (Oct 1995), 6A549
First step towards the modeling of the thermoforming of plastic sheets, J Mat Processing Tech 54(1-4) 1-11 (Oct 1995), 6A550
Investigation of die-workpiece interface friction during the upsetting process, J Mat Processing Tech 54(1-4) 239-248 (Oct 1995), 6A551
Numerical analysis of neck formation in tensile specimens, J Mat Processing Tech 54(1-4) 309-313 (Oct 1995), 6A552
Off-axes forming-limit stress diagrams of an anisotropic steel sheet, J Mat Processing Tech 54(1-4) 193-198 (Oct 1995), 6A553
Tension zone model of blanking and tearing of ductile metal plates, Int J Mech Sci 38(3) 303-324 (Mar 1996), 6A554
Theoretical analysis of tube spinning using balls, J Mat Processing Tech 54(1-4) 224-229 (Oct 1995), 6A555
Simulation of the viscoplastic forming process by the FEM, J Mat Processing Tech 55(3-4) 442-447 (Dec 1995), 7A24
Use of FEM as an effective teaching tool and as a flexible aid in the simulation of manufacturing processes and multiple rigid-body collisions, J Mat Processing Tech 55(3-4) 391-407 (Dec 1995), 7A26
Die design for axisymmetric extrusion, J Mat Processing Tech 55(3-4) 331-339 (Dec 1995), 7A719
Fracture predicting in bulk metal forming, Int J Mech Sci 38(4) 361-372 (Apr 1996), 7A720
Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, Int J Plasticity 12(1) 93-115 (1996), 8A23
Blank development and the prediction of earing in cup drawing, Int J Mech Sci 38(5) 509-516 (May 1996), 8A544
Simplified theories of flat rolling - I: The calculation of roll pressure, roll force, and roll torque, Int J Mech Sci 38(6) 633-648 (Jun 1996), 8A545
Simplified theories of flat rolling - II: Comparison of calculated and experimental results, Int J Mech Sci 38(6) 649-660 (Jun 1996), 8A546
Influence of the tool clearance in the cylindrical cup-drawing process, J Mat Processing Tech 57(1-2) 4-13 (Feb 1996), 10A697
Process model for air bending, J Mat Processing Tech 57(1-2) 48-54 (Feb 1996), 10A698
Upper-bound and FE analysis of axisymmetric hot extrusion, J Mat Processing Tech 57(1-2) 14-22 (Feb 1996), 10A699
Fundamentals of Metal Forming (Wiley, New York, 1996) 12R15
Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, Int J Pressure Vessels Piping 69(2) 161-167 (1996), 12A10
Finite-element simulation of hole-flanging process of circular sheets of anisotropic materials, Int J Mech Sci 38(8-9) 917-933 (Sep 1996), 12A11
Analysis of superplastic blow-forming in a circular closed-die, J Mat Processing Tech 57(3-4) 360-372 (Feb 1996), 12A669
Forming limit predictions with the perturbation method using stress potential functions of polycrystal viscoplasticity, Int J Mech Sci 38(8-9) 805-824 (Sep 1996), 12A670
International Conference on Advances in Materials and Processing Technologies held at Dublin City University, Dublin, Ireland in August 1993, J Mat Processing Tech 56(1-4) 1-978 (Jan 1996), 12A671
Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, J Mat Processing Tech 57(3-4) 298-303 (Feb 1996), 12A672
Plastic instability in equi-biaxial deformation of aluminum alloy sheet, J Mat Processing Tech 57(3-4) 266-271 (Feb 1996), 12A673
Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, J Mat Processing Tech 60(1-4) 1-734 (Jun 1996), 12A674
Role of texture development in the forming limits of sheet metals, Int J Mech Sci 38(10) 1117-1126 (Oct 1996), 12A675
Tube expansion by internal fluid pressure with additional compressive stress, Int J Mech Sci 38(8-9) 839-851 (Sep 1996), 12A676
Press-formability of aluminum clad stainless steel sheet, JSME Int J Ser C 39(2) 404-410 (Jun 1996), 12A682

272C. Forging

Approach to preform design, Int J Machine Tools Manuf 35(11) 1537-1544 (Nov 1995), 1A711
Pressured-assisted injection forging of thick-walled tubes, Int J Machine Tools Manuf 35(11) 1481-1492 (Nov 1995), 1A712
Stress analysis of the precision forging die for a bevel gear and its optimal design using the BEM, J Mat Processing Tech 53(3-4) 511-520 (Sep 1995), 3A50
Method for the evaluation of lubrication using injection upsetting, J Mat Processing Tech 53(3-4) 712-725 (Sep 1995), 3A605
Review of research into the injection forging of turbular materials, J Mat Processing Tech 52(2-4) 460-471 (Jul 1995), 3A606
Forging of compressor blades: Temperature and ram velocity effects, J Eng Gas Turbines Power 117(3) 528-533 (Jul 1995), 5A1045
Expert system for multi-stage cold-forging process design with a re-designing algorithm, J Mat Processing Tech 54(1-4) 271-285 (Oct 1995), 6A556
Suppression of free surface roughening of metal with plastic deformation, JSME Int J Ser C 38(4) 824-830 (Dec 1995), 6A826
Development and validation of a FE model for multiple-pass radial forging, J Mat Processing Tech 55(3-4) 432-441 (Dec 1995), 7A17
Development and analysis of the die-free magnetic-pulse forming of thin-walled parts, J Machinery Manuf Reliab 4 65-68 (1995), 7A721
Forging sequence design using an expert system, J Mat Processing Tech 55(2) 95-102 (Nov 1995), 7A722
Intelligent planning aid for the design of progressive dies, Proc Inst Mech Eng J Eng Manuf 210(B1) 25-35 (1996), 7A723
Upper-bound analysis of a forging-extrusion process, J Mat Processing Tech 55(2) 103-110 (Nov 1995), 7A724
Analysis of external spline gear forming by an upper bound energy method, Int J Mech Sci 38(7) 777-789 (Jul 1996), 9A692
Finite element calculation of thermal coupling between workpiece and tools in forging, Eng Comput 12(8) 687-705 (Nov 1995), 9A693
Upper bound analysis of near-net shaped forging of gear coupling form, Int J Mech Sci 38(7) 791-803 (Jul 1996), 9A694
Cylinders and rings hot upset forging analysis by the FEM (Spanish), J Brazilian Soc Mech Sci 18(1) 24-32 (Mar 1996), 10A700
Finite-element simulation of axisymmetric preforms in precision forging at elevated temperatures, J Mat Processing Tech 57(1-2) 103-111 (Feb 1996), 10A701
Simulation of the precision forging of bevel gears using implicit and explicit FE techniques, J Mat Processing Tech 57(1-2) 164-171 (Feb 1996), 10A702
Study of void crushing in large forgings - I: Bonding mechanism and estimation model for bonding efficiency, J Mat Processing Tech 57(1-2) 129-140 (Feb 1996), 10A703
Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement, Eng Comput 13(2/3/4) 339-360 (1996), 11A579
Computer aided preform design in forging using the inverse die contact tracking method, Int J Machine Tools Manuf 36(7) 755-769 (Jul 1996), 12A677
Computer simulation to predict stresses, working pressures, and deformation modes in incremental forging of spur gear forms, Int J Mech Sci 38(8-9) 871-889 (Sep 1996), 12A678
Evaluation of the preform design of a stepped forging part by coupled thermoviscoplastic FE analysis and viscoplasticity, J Mat Processing Tech 57(3-4) 278-287 (Feb 1996), 12A679
Heat transfer during quenching of turbine rotor parts, Strojnicky Casopis 47(3) 171-183 (1996), 12A680
Near-net shape forging of spur gear forms: An analysis and some experiments, Int J Mech Sci 38(8-9) 891-916 (Sep 1996), 12A681

272D. Extrusion

Asymptotic analysis of extrusion process through tapering die, Int J Machine Tools Manuf 35(11) 1587-1601 (Nov 1995), 1A713
Modeling of strain field in extrusion by die geometry, Eng Trans 43(1-2) 245-257 (1995), 1A714
Slip flow of polybutadiene through fluorinated dies, J Non-Newtonian Fluid Mech 59(1) 11-30 (Aug 1995), 1T715
Perturbation analysis of extrusion of porous metal materials, Appl Math Model 19(10) 601-612 (Oct 1995), 2A394
Optimization of the extrusion process for glass-fiber-reinforced tubes, J Thermoplastic Composite Mat 8(4) 435-448 (Oct 1995), 2A535
Analysis of the extrusion of bimetallic tubes by numerical simulation, Int J Mech Sci 38(2) 157-173 (Feb 1996), 4A631
Formability in extrusion forging: The influence of die geometry and friction conditions, J Mat Processing Tech 54(1-4) 302-308 (Oct 1995), 6A557
Numerical simulations for extrusion and ironing and die-angle optimization, J Mat Processing Tech 55(1) 48-52 (Nov 1995), 6A558
Study of hydrodynamics in the melt and dope extrusion process in the spinnerette channel, Fibres Textiles in E Europe 2(3) 27-29 (Sep 1994), 6A559
Geometric influence of a molded part on the draw direction range and parting line locations, J Mech Des 118(1) 29-39 (Mar 1996), 8A547
Mathematical model of solid phase extrusion for polymer composite materials (Russian), Mech of Composite Mat 31(6) 834-839 (Dec 1995), 8A548
Analytical approach to the stress field in the extrusion of bimetallic tubes, Int J Solids Struct 33(14) 2075-2093 (Jun 1996), 9A695
Effects of geometric variables in roll forming a channel section, Proc Inst Mech Eng J Eng Manuf 210(B2) 127-134 (1996), 10A704

272E. Rolling

Finite element analysis of edge lamination during hot rolling process of aluminum alloy, Arch Appl Mech 65(6) 365-373 (Jul 1995), 1A716
Modeling and analysis of meniscus roll coating, J Fluid Mech 298 113-137 (Sep 1995), 2A536
Analysis of plastic instability during sandwich sheet rolling, Int J Machine Tools Manuf 36(1) 47-62 (Jan 1996), 3A607
Aspect ratio, friction forces and normal forces in strip rolling, J Mat Processing Tech 53(3-4) 846-856 (Sep 1995), 3A608
Steady-state plane-strain cold rolling of a strain-hardening material, J Mat Processing Tech 52(2-4) 338-358 (Jul 1995), 3A609
Modeling hot flat-Rolling of components having curved profiles - Part II: Characterization of heat transfer and flow stress, Int J Mech Sci 37(12) 1283-1293 (Dec 1995), 3A1108
Numerical analysis of steady-state rolling problem, Mech Res Commun 22(6) 547-553 (Dec 1995), 4T632
Variational approach of a problem for the non-steady rolling process, Mech Res Commun 22(6) 555-560 (Dec 1995), 4T633
Three-dimensional fluid flow model for puddle formation in the single-roll rapid solidification process, Appl Math Model 19(12) 704-712 (Dec 1995), 4A652
Analysis of flow and heat transfer in twin-roll strip casting by FEM, J Eng Indust 117(3) 304-315 (Aug 1995), 5A559
Investigation of the effect of speeds of work rolls on rolling strip, J Eng Mat Tech 117(3) 341-346 (Jul 1995), 5A560
Recent Advances in Heat Transfer and Microstructure Modeling for Metal Processing, MD-Vol 67-MED-Vol 4 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 7N19
Analysis of asymmetrical clad sheet rolling by stream function method, Int J Mech Sci 38(4) 443-460 (Apr 1996), 7A725
Study on the method for groove design in the helical rolling of steel balls, J Mat Processing Tech 55(3-4) 340-344 (Dec 1995), 7A726
Through thickness texture gradients in rolled polycrystalline alloys, Int J Mech Sci 38(6) 661-683 (Jun 1996), 8A549
Transverse deflection of a cold-worked metal plate clamped around its edge, Eng Trans 43(4) 627-635 (1995), 9A508
Analysis of high-speed rolling with inertia and rate effects, J Appl Mech 63(1) 27-37 (Mar 1996), 9A696
Comparison of three mechanical models for cold roll bonding metal laminates, J Adhesion Sci Tech 10(3) 199-229 (1996), 9A697
Seizing effect in the roller burnishing process, Acta Phys Polonica A 89(3) 371-375 (Mar 1996), 9A698
Comparison of a numerical analysis of rolling with experimental data, J Mat Processing Tech 57(1-2) 70-78 (Feb 1996), 10A705
Press-formability of aluminum clad stainless steel sheet, JSME Int J Ser C 39(2) 404-410 (Jun 1996), 12A682

272F. Drawing

Analysis of splitting failures during the drawing of tungsten wire, Eng Failure Anal 2(2) 105-115 (Jun 1995), 2A537
Behavior of initial texture components during the plane strain drawing of FCC sheet metals, Acta Mat 44(2) 607-619 (Feb 1996), 6A560
Novel hydraulic-pressure augmented deep-drawing process for high draw ratios, J Mat Processing Tech 54(1-4) 355-361 (Oct 1995), 6A561
Study on process improvements of multi-stage deep-drawing by the FEM, J Mat Processing Tech 54(1-4) 230-238 (Oct 1995), 6A562
Textures induced by tension and deep drawing in aluminum sheets, Acta Mat 44(2) 587-605 (Feb 1996), 6A563
Theoretical and experimental analysis of non-axisymmetrical deep drawing, J Mat Processing Tech 54(1-4) 375-384 (Oct 1995), 6A564
Influence of the die arc on formability in cylindrical cup-drawing, J Mat Processing Tech 55(3-4) 360-369 (Dec 1995), 7A22
Study on ironing using upper-bound approach, Chinese J Aeronaut 8(4) 291-296 (Nov 1995), 7A727
Analysis of the mechanics for drawing polyvinyl chloride tubes over an expanding mandrel, Proc Inst Mech Eng E 210(E1) 65-74 (1996), 9A699
Estimation of the effect of nonuniform mechanical properties of sheet metal on the critical parameters of axisymmetric drawing and flanging, J Machinery Manuf Reliab 6 43-49 (1995), 10T706
Dynamic-explicit elastic plastic FE simulation of hemispherical punch-drawing of sheet metal, Eng Comput 13(2/3/4) 327-338 (1996), 11A580
Optimal design of process variables in multi-pass wire drawing by genetic algorithms, J Manuf Sci Eng 118(2) 244-251 (May 1996), 11A581
Study of the FE stabilized matrix to the hemispherical cup-drawing process, Comput Struct 60(2) 235-242 (Jul 1996), 11A582
Fundamentals of Metal Forming (Wiley, New York, 1996) 12R15

272G. Sheet metal forming and stamping

Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, Int J Pressure Vessels Piping 65(1) 47-52 (1996), 1A22
Modeling the role of microstructure on the superplastic behavior of a titanium alloy, Arch Mech 47(2) 247-260 (1995), 1A511
Attractor embedding in metal cutting, J Sound Vib 184(5) 936-942 (Aug 1995), 1T717
Offset FE model and its applications in predicting sheet metal assembly variation, Int J Machine Tools Manuf 35(11) 1545-1557 (Nov 1995), 1A718
Parameter sensitivity analysis in frictional contact problems of sheet metal forming, Comput Mech 16(5) 297-306 (Aug 1995), 1A719
Elasto-plastic FE simulation of successive UO-bending processes of sheet metal, J Mat Processing Tech 53(3-4) 643-661 (Sep 1995), 3A14
Finite-element simulation of the bending process of steel-polymer-steel laminate sheets, J Mat Processing Tech 52(2-4) 319-337 (Jul 1995), 3A16
Failure and wrinkling criteria and mathematical modeling of shrink and stretch flanging operations in sheet-metal forming, J Mat Processing Tech 53(3-4) 759-780 (Sep 1995), 3A610
Mechanics model for sheet-metal stamping using deformable dies, J Mat Processing Tech 53(3-4) 798-810 (Sep 1995), 3A611
Tensile flow and instability in galvanized, rolled steel sheet, J Strain Anal Eng Des 30(4) 305-315 (Oct 1995), 3A612
Thermomechanical analysis of upsetting of a cylindrical billet, Comput Struct 58(1) 1-12 (Jan 1996), 3A613
Flow instability in the torsional straining of commercially pure titanium, J Eng Mat Tech 117(3) 255-259 (Jul 1995), 5A441
Animation of FE models of metal forming processes, Comput Struct 58(5) 991-1001 (Mar 1996), 5A561
Consideration of optimum conditions for surface smoothing based on lubricating mechanisms in ironing process, J Eng Indust 117(3) 351-356 (Aug 1995), 5A562
Design of a Vernier punch and die set for single-minute bending set-ups, J Mech Des 117(3) 396-401 (Sep 1995), 5A563
Feature-based design of progressive press tools, Int J Machine Tools Manuf 36(3) 367-378 (Mar 1996), 5A564
Fuzzy self-learning control method with application to hydroforming processes, J Eng Indust 117(3) 297-303 (Aug 1995), 5A565
Optimal design for non-steady-state metal forming processes - I: Shape optimization method, Int J Numer Methods Eng 39(1) 33-50 (Jan 1996), 5A566
Optimal design for non-steady-state metal forming processes - II: Application of shape optimization in forging, Int J Numer Methods Eng 39(1) 51-65 (Jan 1996), 5A567
Finite-element analysis of sheet metal forming processes, J Mat Processing Tech 54(1-4) 70-75 (Oct 1995), 6A565
Integral hydro-bulge forming of double-layer gap spherical vessels, J Mat Processing Tech 55(1) 11-18 (Nov 1995), 6A566
Simulation of superplastic sheet forming and bulk forming, J Mat Processing Tech 55(1) 24-27 (Nov 1995), 6A567
Three novel techniques for forming hemispherical cups with flexible tooling, J Mat Processing Tech 54(1-4) 129-136 (Oct 1995), 6A568
Analysis of die designs for the stamping of an automobile rear floor panel, J Mat Processing Tech 55(3-4) 408-416 (Dec 1995), 7A728
Anisotropic stress resultant constitutive law for sheet metal forming, Int J Numer Methods Eng 39(3) 435-449 (Feb 1996), 7A729
Few methods of analytical calculation of forming-limiting curves, J Mat Processing Tech 55(3-4) 213-217 (Dec 1995), 7A730

Finite element analysis and optimization of springback reduction: The "double-bend" technique, Int J Machine Tools Manuf 36(4) 423-434 (Apr 1996), 7A731

Generation of tool paths for a die sinking based on "skewed cube modeler": Application to stamping dies, Int J Japan Soc Precision Eng 29(3) 263-268 (Sep 1995), 7A732

Instability limits to the forming of sheet metals, J Mat Processing Tech 55(3-4) 146-153 (Dec 1995), 7A733

Tooling and binder design for sheet metal forming processes compensating springback error, Int J Machine Tools Manuf 36(4) 503-526 (Apr 1996), 7A734

Approximate calculation of contraction of formed camber (Chinese), J Dalian Univ Tech 35(1) 88-93 (Feb 1995), 8A550

Determination of stretch-bendability of sheet-metals, Int J Machine Tools Manuf 36(5) 635-650 (May 1996), 8A551

Rigid-plastic implicit *integration* scheme for analysis of metal forming, Eur J Mech A 15(1) 51-66 (31 1996), 8A552

Development of incremental sheet metal forming system using elastic tools: Principle of forming process and formation of some fundamentally curved shapes, JSME Int J Ser C 39(1) 156-163 (Mar 1996), 9A700

Dynamic explicit-rigid-plastic FE formulation and its application to sheet metal forming processes, Eng Comput 12(8) 707-722 (Nov 1995), 9A701

Forming limit during superplastic deformation of sheet metals, Appl Math Mech 17(2) 133-138 (Feb 1996), 9A702

Shape sensitivity analysis for steady metal-forming processes, Int J Numer Methods Eng 39(7) 1199-1217 (Apr 1996), 9A703

Phase coupling in orthogonal cutting, J Sound Vib 191(5) 976-985 (Apr 1996), 10T707

Sensitivity analysis for the optimal design of metal-forming processes, Comput Methods Appl Mech Eng 129(4) 319-348 (Feb 1996), 10A708

Technique of tool-shape optimization in large scale problems of metal forming, J Mat Processing Tech 57(1-2) 79-84 (Feb 1996), 10A709

Friction laws in metal forming, Mech Solids 30(6) 73-87 (1995), 10T958

Calculation of force parameters of shaping when bending thin-walled profile parts, Russian Aeronaut 38(3) 56-59 (1995), 11A583

Elastic and crystalline-viscoplastic FE analysis of dynamic deformation of sheet metal, Eng Comput 13(2/3/4) 308-326 (1996), 11A584

Experiences of shape forming process: Experiments and numerical simulations, Eng Comput 13(2/3/4) 98-110 (1996), 11A585

Finite element modeling of the stamping of anisotropic sheet metals, Eng Comput 13(2/3/4) 143-171 (1996), 11T586

Inverse problems in FE simulation of metal forming processes, Eng Comput 13(2/3/4) 190-225 (1996), 11A587

Investigating the technological scope for controlling the processes of magnetic-pulsed stamping of thin-walled parts with the use of technological concomitants, Russian Aeronaut 38(3) 106-109 (1995), 11A588

Solution of quasi-static, force-driven problems by means of a dynamic-explicit approach and an adaptive loading procedure, Eng Comput 13(2/3/4) 172-189 (1996), 11A589

Static-explicit elastic plastic FE simulation and virtual manufacturing of sheet metal forming, Eng Comput 13(2/3/4) 283-307 (1996), 11A590

Fundamentals of Metal Forming (Wiley, New York, 1996) 12R15

Estimation of the magnetic pressure in tube expansion by electromagnetic forming, J Mat Processing Tech 57(3-4) 311-315 (Feb 1996), 12A635

Research on simplification of opposed dies shearing process utilizing differential pressure, JSME Int J Ser C 39(2) 418-425 (Jun 1996), 12A683

272H. Machining (incl NM)

FEM analysis of torsional strength for twist drill, Int J Japan Soc Precision Eng 29(1) 44-45 (Mar 1995), 1T15

Development of an endless multi-wire diamond saw (Japanese), J Japan Soc Precision Eng 61(7) 1031-1032 (Jul 1995), 1T441

ICPR '93: 12th international conference on production research, J Mat Processing Tech 52(1) 1-191 (May 1995), 1A443

Affected layer produced by grit blasting for austenitic stainless steel, Int J Japan Soc Precision Eng 29(1) 46-47 (Mar 1995), 1T720

Computer simulation of 3D machining with cut-away tools, Int J Japan Soc Precision Eng 29(1) 42-43 (Mar 1995), 1T721

Ductile-regime turning of quartz crystal, Int J Japan Soc Precision Eng 29(1) 18-22 (Mar 1995), 1A722

Face milling of Inconel 718 with cemented carbide tools, Int J Japan Soc Precision Eng 29(1) 48-49 (Mar 1995), 1T723

Improvements on belt machined surface flatness by using fuzzy inference based on a simulational method, Int J Japan Soc Precision Eng 29(1) 29-35 (Mar 1995), 1A724

Model for non-free-cutting, Int J Machine Tools Manuf 35(11) 1507-1522 (Nov 1995), 1A725

Prediction of the cutting forces for chamfered main cutting edge tools, Int J Machine Tools Manuf 35(11) 1559-1586 (Nov 1995), 1A726

Recent mechatronics technology on precise cutting (Japanese), J Japan Soc Precision Eng 61(7) 927-930 (Jul 1995), 1T727

Study of small hole drilling under the feed with vibration (Japanese), J Japan Soc Precision Eng 61(7) 1006-1010 (Jul 1995), 1A728

Study on CAM system for machining of mesh surface: Relation of machining accuracy, error of normal vector and mesh interval (Japanese), J Japan Soc Precision Eng 61(7) 954-958 (Jul 1995), 1A729

Study on interfacial adhesion between cutting tool and microstructures of free-machining steel, Int J Japan Soc Precision Eng 29(1) 36-41 (Mar 1995), 1A730

Fuzzy expert system for the design of machining operations, Int J Machine Tools Manuf 35(12) 1605-1621 (Dec 1995), 2A327

Application of real-time error compensation on a turning center, Int J Machine Tools Manuf 35(12) 1669-1682 (Dec 1995), 2A538

Cutting force model for multi-toothed cutting process and force measuring equipment for face milling, Int J Machine Tools Manuf 35(12) 1715-1728 (Dec 1995), 2A539

Machining of aluminum based metal matrix composites, Appl Composite Mat 2(1) 31-42 (1995), 2A540

New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, Int J Machine Tools Manuf 35(12) 1683-1692 (Dec 1995), 2A541

Optimization of diamond grain size of polycrystalline diamond for cutting Al-16%Si alloy (Japanese), J Japan Soc Precision Eng 61(8) 1166-1171 (Aug 1995), 2A542

Orthogonal cutting mechanisms of graphite-epoxy composite - Part I: Unidirectional laminate, Int J Machine Tools Manuf 35(12) 1623-1638 (Dec 1995), 2A543

Orthogonal cutting mechanisms of graphite-epoxy composite - Part II: Multi-directional laminate, Int J Machine Tools Manuf 35(12) 1639-1648 (Dec 1995), 2A544

Perpendicular guideway mechanism of machine tool - 3rd report: Improvement of positioning characteristics by load compensated drive mechanism (Japanese), J Japan Soc Precision Eng 61(8) 1151-1155 (Aug 1995), 2T545

Prediction of chip flow direction and cutting forces in oblique machining with nose radius tools, Proc Inst Mech Eng J Eng Manuf 209(B4) 305-315 (1995), 2A546

Recording and processing of planar curve using clothoids - 1st report: Approximation error of ellipse curve and involute curve with clothoidal interpolation (Japanese), J Japan Soc Precision Eng 61(8) 1092-1096 (Aug 1995), 2A547

Study on ultra fine NC polishing with constant cutting depth: Surface polishing characteristics and influence of viscosity of polishing compound (Japanese), J Japan Soc Precision Eng 61(8) 1146-1150 (Aug 1995), 2A548

Analysis of orthogonal finish machining using tungsten carbide and diamond tools of different heat transfer coefficients, Int J Machine Tools Manuf 36(1) 73-88 (Jan 1996), 3A614

Analytical approach for determining the environmental impact of machining processes, J Mat Processing Tech 53(3-4) 736-758 (Sep 1995), 3A615

Analytical prediction of cutting performances of grooved rake face tools (Japanese), J Japan Soc Precision Eng 61(9) 1295-1299 (Sep 1995), 3A616

CAD approach to helical groove machining - I: Mathematical model and model solution, Int J Machine Tools Manuf 36(1) 141-153 (Jan 1996), 3A617

Development of constrained optimization analyses and strategies for multi-pass rough turning operations, Int J Machine Tools Manuf 36(1) 115-127 (Jan 1996), 3A618

Effect of auditory feedback on operating efficiency and fatigue - In the case of manual cut-off turning with virtual lathe (Japanese), J Japan Soc Precision Eng 61(9) 1317-1321 (Sep 1995), 3T619

Fabrication of metallic fibers of advanced industrial materials by rotary cutting (Japanese), J Japan Soc Precision Eng 61(9) 1280-1284 (Sep 1995), 3A620

In-process evaluation of workpiece geometrical tolerances in bar turning, Int J Machine Tools Manuf 36(1) 33-46 (Jan 1996), 3A621

Investigation on the cutting mode and behavior of single crystalline silicon under single point diamond cutting, Int J Japan Soc Precision Eng 29(2) 128-133 (Jun 1995), 3A622

Machining and on-line measurement of spatial cams on four-axis machine tools, Int J Machine Tools Manuf 36(1) 89-101 (Jan 1996), 3A623

Simulation for the prediction of surface-accuracy in magnetic abrasive machining, J Mat Processing Tech 53(3-4) 630-642 (Sep 1995), 3A624

Study of orthogonal cutting with tool flank wear and sticking behavior on the chip-tool interface, J Mat Processing Tech 52(2-4) 524-538 (Jul 1995), 3A625

Tool failure detecting by ID3, Int J Japan Soc Precision Eng 29(2) 140-145 (Jun 1995), 3A626

Tool temperatures and crack development in milling cutters, Int J Machine Tools Manuf 36(1) 129-140 (Jan 1996), 3A645

Influence of machining defects and inclusions on the fatigue properties of a hardened spring steel, Fatigue Fracture Eng Mat Struct 18(10) 1071-1087 (Oct 1995), 3A651

Mechanical design of a new tooling mechanism with on-line controllability of inclination angle, Int J Machine Tools Manuf 36(1) 103-113 (Jan 1996), 3AE54

Finite element analysis of the rake angle effects in orthogonal metal cutting, Int J Mech Sci 38(1) 1-17 (Jan 1995), 4A14

Experimental research in cutting force variation during primary chatter vibration occurring in plain milling operation, Int J Machine Tools Manuf 36(2) 183-201 (Feb 1996), 4A210

Delamination-free and high efficiency drilling of carbon fiber reinforced plastics, J Composite Mat 29(15) 1988-2002 (1995), 4A483

Change of mechanical characteristics in machined layer with machining sequence (Japanese), J Japan Soc Precision Eng 61(10) 1453-1457 (Oct 1995), 4T634

Design of ejectors for deep hole machining, Int J Machine Tools Manuf 36(2) 155-171 (Feb 1996), 4A635

Finite element analysis of orthogonal metal cutting mechanics, Int J Machine Tools Manuf 36(2) 255-273 (Feb 1996), 4A636

Five-axis milling of spherical surfaces, Int J Machine Tools Manuf 36(2) 229-243 (Feb 1996), 4A637

Machining of sintered bronze, Int J Mech Sci 38(2) 141-155 (Feb 1996), 4A638

Modeling and simulation of high-speed machining, Int J Numer Methods Eng 38(21) 3675-3694 (Nov 1995), 4A639

Optimal tool replacement strategy for computer numerical controlled turning centers, Proc Inst Mech Eng J Eng Manuf 209(B6) 481-490 (1995), 4A640

Quantification of energy absorption capability in abrasive water jet machining, Proc Inst Mech Eng J Eng Manuf 209(B6) 491-498 (1995), 4A641

Three-dimensional micro fabrication by precision cutting technique (Japanese), J Japan Soc Precision Eng 61(10) 1361-1364 (Oct 1995), 4T642

Ultra-precision machining by the hydrodynamic polishing process, Int J Machine Tools Manuf 36(2) 275-291 (Feb 1996), 4A643

Biomachining of metals using bacteria (Japanese), J Japan Soc Precision Eng 61(10) 1389-1392 (Oct 1995), 4T653

Micromachining of 3D microstructure by etching (Japanese), J Japan Soc Precision Eng 61(10) 1373-1376 (Oct 1995), 4T658

Characterization of cut and ground surface (Japanese), J Japan Soc Precision Eng 61(11) 1537-1540 (Nov 1995), 5T568

Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), J Japan Soc Precision Eng 61(11) 1569-1573 (Nov 1995), 5A569

Cutting force dynamics as a tool for surface profile monitoring in AWJ, J Eng Indust 117(3) 340-350 (Aug 1995), 5A570

Improving milling performance with high pressure waterjet assisted cooling-lubrication, J Eng Indust 117(3) 331-339 (Aug 1995), 5A571

Simultaneous in-process inspection of surface form and roughness of machined sculptured surfaces, J Eng Indust 117(3) 430-438 (Aug 1995), 5A572

Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part I: Single edge oblique cutting, Int J Machine Tools Manuf 36(3) 307-323 (Mar 1996), 5A573

Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part 2: Two edge oblique cutting, Int J Machine Tools Manuf 36(3) 325-338 (Mar 1996), 5A574

When is cutting chaotic?, J Sound Vib 188(1) 75-83 (Nov 1995), 5A575

Surface roughness measurement by ultrasonic sensing for in-process monitoring, J Eng Indust 117(3) 439-447 (Aug 1995), 5A684

Dynamics of closed-die forging with mechanical presses, J Eng Indust 117(3) 357-364 (Aug 1995), 5A852

Arbitrary surface flank milling of fan, compressor, and impeller blades, J Eng Gas Turbines Power 117(3) 534-539 (Jul 1995), 5A1028

Advanced ceramic tools: An experimental assessment in turning tests, J Mat Processing Tech 54(1-4) 34-39 (Oct 1995), 6A569

Chip formation in orthogonal trimming of graphite-epoxy composite, Composites Part A Appl Sci and Manuf 27A(2) 121-133 (1996), 6A570

Complex geometry, rotary inertia and gyroscopic moment effects on drill vibrations, J Sound Vib 188(5) 701-715 (Dec 1995), 6A571

Feature extraction and assessment using wavelet packets for monitoring of machining processes, Mech Syst Signal Processing 10(1) 29-53 (Jan 1996), 6A572

Machinability of light alloy MMCs, Composites Part A Appl Sci and Manuf 27A(2) 143-147 (1996), 6A573

Plastics and their machining: A review, J Mat Processing Tech 54(1-4) 40-46 (Oct 1995), 6A574

Prediction of cutting forces in the ball-end milling process, J Mat Processing Tech 54(1-4) 286-301 (Oct 1995), 6A575

Principles for choosing composite materials for cutters hardened by a combined technique, J Friction Wear 16(2) 68-72 (1995), 6A576

Simple concept to achieve a rational chip form, J Mat Processing Tech 54(1-4) 12-16 (Oct 1995), 6A577

Systems for the prediction of process parameters, J Mat Processing Tech 54(1-4) 64-69 (Oct 1995), 6A578

Thin and deep hole drilling using a fuzzy discrete sliding mode control with a woodpeckering strategy, J Syst Control Eng 209(I4) 281-292 (1995), 6A579

Three dimensional cutting force analysis in end milling, Int J Mech Sci 38(3) 259-269 (Mar 1996), 6A580

Relationship between inclusionary deposits and the wear of cutting tools, J Mat Processing Tech 54(1-4) 88-96 (Oct 1995), 6A800

Informational support of a system for dynamic diagnostics of cutting tool wear in turning, J Machinery Manuf Reliab 3 94-105 (1995), 6A829

Method of collision avoidance for 5-axis control machining using 2D configuration space (Japanese), J Japan Soc Precision Eng 62(1) 80-84 (Jan 1996), 7A446

Application of grey predictor and fuzzy speed regulator in controlling a retrofitted machining table, Int J Machine Tools Manuf 36(4) 477-489 (Apr 1996), 7T735

Computer-aided analysis of a surface-roughness model for end milling, J Mat Processing Tech 55(2) 123-127 (Nov 1995), 7A736

Development of ultra-precision machine tools with high-stiffness (Japanese), J Japan Soc Precision Eng 61(12) 1671-1675 (Dec 1995), 7T737

End-milling machinability of Inconel 718, Proc Inst Mech Eng J Eng Manuf 210(B1) 11-23 (1996), 7A738

Experimental determination of dynamic forces during transient orthogonal cutting, J Mat Processing Tech 55(3-4) 162-170 (Dec 1995), 7A739

Expert system shell for the selection of metal-cutting parameters, J Mat Processing Tech 55(2) 111-116 (Nov 1995), 7A740

High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), J Japan Soc Precision Eng 62(1) 115-119 (Jan 1996), 7A741

Improvement of thermal error modeling and compensation on machine tools by CMAC neural network, Int J Machine Tools Manuf 36(4) 527-537 (Apr 1996), 7A742

Intelligent tool selection system, J Mat Processing Tech 55(2) 91-94 (Nov 1995), 7A743

New trend of machine tools and the peripheral technology (Japanese), J Japan Soc Precision Eng 62(1) 24-29 (Jan 1996), 7T744

Reseach on principle of slow-scanning controlled electrochemical honing of gears (Chinese), J Dalian Univ Tech 35(6) 832-837 (31 1995), 7A745

Study of the correlation between surface roughness and cutting vibrations to develop an on-line roughness measuring technique in hard turning, Int J Machine Tools Manuf 36(4) 453-464 (Apr 1996), 7A746

Study on CAM system for 5-axis controlled machining center: Efficient collision check and collision avoidance (Japanese), J Japan Soc Precision Eng 61(12) 1745-1749 (Dec 1995), 7A747

Study on virtual reality of NC programming for free-form surfaces (Japanese), J Japan Soc Precision Eng 62(1) 70-74 (Jan 1996), 7T748

Surface abuse when machining cast iron (G-17) and nickel-base superalloy (Inconel 718) with ceramic tools, J Mat Processing Tech 55(2) 63-69 (Nov 1995), 7A749

Drill wear monitoring using neural networks, Int J Machine Tools Manuf 36(4) 465-475 (Apr 1996), 7A1001

Adaptive control in CNC machine cutting (Chinese), J Dalian Univ Tech 35(3) 352-356 (Jun 1995), 8A273

Parametric design and NC code generation of countersink cutting tools, Int J Comput Integrated Manuf 9(2) 105-112 (Apr 1996), 8A366

Cutting force and dimensional surface error generation in peripheral milling with variable pitch helical end mills, Int J Machine Tools Manuf 36(5) 567-584 (May 1996), 8A553

Nose radius oblique tool: Cutting force and built-up edge prediction, Int J Machine Tools Manuf 36(5) 585-595 (May 1996), 8A554

Study of backlash on the motion accuracy of CNC lathes, Int J Machine Tools Manuf 36(5) 539-550 (May 1996), 8A555
Thermal investigation of a honing process utilizing polyborosiloxane impregnated with abrasive particles, Proc Inst Mech Eng C 210(C1) 43-50 (1996), 8A556
Suppression of chatter vibration in inner-diameter cutting, JSME Int J Ser C 39(1) 25-33 (Mar 1996), 9A228
Comparison of positioning resolution of feed drive devices for ultra-precision machine tools (Japanese), J Japan Soc Precision Eng 62(3) 458-462 (Mar 1996), 9A704
Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), J Japan Soc Precision Eng 62(2) 215-218 (Feb 1996), 9A705
Development of a high speed non-circular machining NC-lathe for cutting a piston-head of a reciprocating engine by use of a new servomechanism actuated by electromagnetic attractive force (Japanese), J Japan Soc Precision Eng 62(3) 453-457 (Mar 1996), 9A706
Drilling performance of new type twist drill, Int J Japan Soc Precision Eng 29(4) 307-308 (Dec 1995), 9T707
Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, Composites Part A Appl Sci and Manuf 27A(5) 409-415 (1996), 9A708
Predictive heat generation model in orthogonal cutting visco-plastic material, J Mech Behavior Mat 6(3) 245-261 (1996), 9A709
Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), J Japan Soc Precision Eng 62(2) 247-251 (Feb 1996), 9T710
Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), J Japan Soc Precision Eng 62(3) 423-427 (Mar 1996), 9A711
Study on vibration cutting characteristics using OD-blade (Japanese), J Japan Soc Precision Eng 62(3) 438-442 (Mar 1996), 9A712
Accuracy enhancement of a horizontal machining center by real-time error compensation, J Manuf Syst 15(2) 113-124 (1996), 10A496
Algorithms for the minimization of setups and tool changes in "simply fixturable" components in milling, J Manuf Syst 15(2) 95-112 (1996), 10A497
Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics, Exp Mech 36(1) 33-41 (Mar 1996), 10A575
Burr-breakout model development and experimental verification, J Eng Mat Tech 118(2) 201-206 (Apr 1996), 10A710
Computer-aided optimal turning of stepped shaft, J Mat Processing Tech 57(1-2) 38-47 (Feb 1996), 10A711
Flat-end cutter path generation for a sculptured surface for 3-axes NC machining, J Mat Processing Tech 57(1-2) 65-69 (Feb 1996), 10A712
Model of brittle materials single point machining with high removal rates, J Brazilian Soc Mech Sci 18(1) 33-39 (Mar 1996), 10A713
Study of kerf characteristics in abrasive waterjet machining of graphite-epoxy composite, J Eng Mat Tech 118(2) 256-265 (Apr 1996), 10A714
Characteristics of diamond sawblade wear in sawing, Int J Machine Tools Manuf 36(6) 661-672 (Jun 1996), 10A970
Comparison of mathematical models for electric discharge machining, J Mat Processing Manuf Sci 4(2) 163-176 (Oct 1995), 10A1326
Computational machining of titanium alloy: FE modeling and a few results, J Manuf Sci Eng 118(2) 208-215 (May 1996), 11A17
Analysis of laser evaporative and fusion cutting, J Manuf Sci Eng 118(2) 225-234 (May 1996), 11A591
Dynamic model for end milling using single point cutting theory, J Manuf Sci Eng 118(2) 272-274 (May 1996), 11A592
High-speed end milling using a feedforward control architecture, J Manuf Sci Eng 118(2) 178-187 (May 1996), 11A593
Hydrodynamic machining of fiber-reinforced composites, J Composite Tech Res 18(2) 118-126 (Apr 1996), 11A594
Improvement of tool life in self-piloting drilling with external chip removal, Proc Inst Mech Eng J Eng Manuf 210(B3) 243-250 (1996), 11A595
Mathematical model of integrated processes of rotary shaping of circular parts, Russian Aeronaut 38(3) 60-63 (1995), 11A596
Modeling and analysis of acoustic emission in diamond turning, J Manuf Sci Eng 118(2) 199-207 (May 1996), 11A597
Prediction of milling force coefficients from orthogonal cutting data, J Manuf Sci Eng 118(2) 216-224 (May 1996), 11A598
Recent progress of computer aided simulation of chip flow and tool damage in metal machining, Proc Inst Mech Eng J Eng Manuf 210(B3) 233-242 (1996), 11A599
Rigid-plastic FEM analysis of 3D cutting mechanisms - 2nd Report: Simulation of plain milling process (Japanese), J Japan Soc Precision Eng 62(4) 526-530 (Apr 1996), 11A600
Simulation analysis of 3D continuous chip formation process - 3rd Report: Effects of tool geometry on chip flow and tool wear (Japanese), J Japan Soc Precision Eng 62(4) 535-539 (Apr 1996), 11A601
Three-dimensional circular interpolation for CNC machines, J Manuf Sci Eng 118(2) 274-277 (May 1996), 11A602
Development of the micromilling process for high-aspect-ratio microstructures, J Microelectromechanical Syst 5(1) 33-38 (Mar 1996), 11A616
Articulated robot application in end milling of sculptured surface, JSME Int J Ser C 39(2) 308-316 (Jun 1996), 12A462
Study on drilled hole quality in small diameter drilling of GFRP (Japanese), J Soc Mat Sci Japan 45(5) 522-526 (May 1996), 12A553
Application of neural networks to flank wear prediction, Mech Syst Signal Processing 10(3) 265-276 (May 1996), 12A684
Diamond synthesis on a substrate rotated at high speed (Japanese), J Japan Soc Precision Eng 62(5) 671-675 (May 1996), 12A685
Drilling carbon fiber-reinforced composite material at high speed, Wear 194(1-2) 156-162 (Jun 1996), 12A686
Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), J Japan Soc Precision Eng 62(5) 676-680 (May 1996), 12A687
Influence of plasma extinction on machining stability in EDM process (Japanese), J Japan Soc Precision Eng 62(5) 686-690 (May 1996), 12A688
Laser fantasy: From machining to welding, J Mat Processing Tech 57(3-4) 316-319 (Feb 1996), 12A689
Simulation analysis of 3D continuous chip formation processes - Fourth Report: Effects of workpiece and tool materials properties on 3D cutting mechanism (Japanese), J Japan Soc Precision Eng 62(5) 661-665 (May 1996), 12A690
Spectral model of the forming of a surface due to turning and the diagnostics of machine tool defects, J Machinery Manuf Reliab 1 109-114 (1996), 12T691
Study on shear banding in chip formation of orthogonal machining, Int J Machine Tools Manuf 36(7) 835-847 (Jul 1996), 12A692
Surface residual stresses in machined austenitic stainless steel, Wear 194(1-2) 168-173 (Jun 1996), 12A693
Erosion model of polycrystalline ceramics in abrasive waterjet cutting, Wear 193(2) 207-217 (May 1996), 12A720
Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, Wear 195(1-2) 223-231 (Jul 1996), 12A923
Effect of varying the workpiece diameter on the cutting tool clearance angle in tool-life testing, Wear 195(1-2) 201-205 (Jul 1996), 12A942
Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, Wear 195(1-2) 206-213 (Jul 1996), 12A984

272I. Grinding

Experimental verification of the theory of tangential grinding force and the rates of grinding actions: Grinding actions of the pored type diamond wheel with vitrified bond - Part 2 (Japanese), J Japan Soc Precision Eng 61(7) 981-985 (Jul 1995), 1A731
Characterization of grinding-induced cracks in ceramics, Int J Mech Sci 37(9) 1035-1050 (Sep 1995), 2A549
Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), J Japan Soc Precision Eng 61(8) 1156-1160 (Aug 1995), 2T550
Gear grinding by vitrified-bonded CBN wheel of screw shape (Japanese), J Japan Soc Precision Eng 61(8) 1161-1165 (Aug 1995), 2T551
Effect of cryogenic cooling on grinding forces, Int J Machine Tools Manuf 36(1) 63-72 (Jan 1996), 3A627
Effect of grinding on fatigue behavior of ceramics at ambient temperature, JSME Int J Ser A 38(4) 610-615 (Oct 1995), 3A628
Optimization of grinding conditions with genetic algorithms, Int J Japan Soc Precision Eng 29(2) 146-147 (Jun 1995), 3T629
Simulation of time-dependent distribution of abrasive grain size in lapping: Second Report - Discussion on a breakage probability, multiplication rate and transition probability of abrasive grains (Japanese), J Japan Soc Precision Eng 61(9) 1270-1274 (Sep 1995), 3T630
Theoretical model for prediction of groove geometry on laser dressed grinding wheel surface, Int J Machine Tools Manuf 36(1) 1-16 (Jan 1996), 3A631
Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), J Japan Soc Precision Eng 61(9) 1285-1289 (Sep 1995), 3A632
Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), J Japan Soc Precision Eng 61(10) 1438-1442 (Oct 1995), 4T644
Development of a micro-positioning grinding table using piezoelectric voltage feedback, Proc Inst Mech Eng J Eng Manuf 209(B6) 469-474 (1995), 4A645
Micro-grinding of micro-machine component (Japanese), J Japan Soc Precision Eng 61(10) 1365-1368 (Oct 1995), 4T646
Studies of super-smooth polishing on aspherical surfaces (Japanese), J Japan Soc Precision Eng 61(10) 1393-1396 (Oct 1995), 4T647
Study on the simulation of grinding process (2nd Report): Distribution of cutting edges on a grinding wheel surface (Japanese), J Japan Soc Precision Eng 61(10) 1443-1447 (Oct 1995), 4T648
Characterization of grinding wheel surface (Japanese), J Japan Soc Precision Eng 61(11) 1533-1536 (Nov 1995), 5T576
Helical micro-drill point design and grinding, J Eng Indust 117(3) 277-287 (Aug 1995), 5A577
Study on grinding-like polishing using magnetic fluid: Surface polishing characteristics of Si-wafer (Japanese), J Japan Soc Precision Eng 61(11) 1555-1559 (Nov 1995), 5A578
Study on the motion errors of NC surface grinding machine: Static accuracies versus circular motion errors (Japanese), J Japan Soc Precision Eng 61(11) 1614-1618 (Nov 1995), 5A579
Magnetic fluid grinding of ceramic balls, Trib Int 28(6) 341-348 (Sep 1995), 5T830
Study on a new internal finishing process by the application of magnetic abrasive machining: Internal finishing of stainless steel tube and clean gas bomb, JSME Int J Ser C 38(4) 798-804 (Dec 1995), 6A581
Determination and control of grinding zone temperature under cryogenic cooling, Int J Machine Tools Manuf 36(4) 491-501 (Apr 1996), 7A750
Energy flowing rate into workpiece surface grinding based on 3D temperature analysis - 1st report: Discussion on temperature distribution in workpiece measured by hole method (Japanese), J Japan Soc Precision Eng 62(1) 90-94 (Jan 1996), 7A751
History and trend of grinding technology in Japan (Japanese), J Japan Soc Precision Eng 62(1) 30-35 (Jan 1996), 7T752
Profile calculation method for form grinding wheels: Theoretical analysis of error transmission and its application, Int J Japan Soc Precision Eng 29(3) 235-240 (Sep 1995), 7A753
Reducing the plunge cylindrical grinding time using acoustic emission monitoring, J Brazilian Soc Mech Sci 17(3) 304-313 (1995), 7A754
Study on the extension of the grinding conditions database: Learning and prediction by the linear model (Japanese), J Japan Soc Precision Eng 62(1) 100-104 (Jan 1996), 7A755
High-precision grinding and turning for optics with 3D profile, Int J Japan Soc Precision Eng 29(4) 291-294 (Dec 1995), 9A713
Increase in life of CBN wheel for gear grinding, Int J Japan Soc Precision Eng 29(4) 367-368 (16c 1995), 9T714
Studies on centerless grinding (2nd Report): Optimum grinding conditions (Japanese), J Japan Soc Precision Eng 62(3) 433-437 (Mar 1996), 9A715
Study on the motion errors of NC surface grinding machine: Method for measuring the motion errors under the circular interpolation, Int J Japan Soc Precision Eng 29(4) 343-348 (Dec 1995), 9A716
Experimental study on grinding of silicon carbide reinforced aluminum alloys, Int J Machine Tools Manuf 36(6) 673-685 (Jun 1996), 10A715
Development of wheel spindle for ultra-high speed surface grinding machine - 1st Report: Studies on ultra-high speed grinding (Japanese), J Japan Soc Precision Eng 62(4) 569-573 (Apr 1996), 11A603
Edge-chipping generation of ferrite in slot grinding (Japanese), J Japan Soc Precision Eng 62(4) 559-563 (Apr 1996), 11A604
Study on precision grinding of axisymmetrical form: Mechanism of form generation (Japanese), J Japan Soc Precision Eng 62(4) 564-568 (Apr 1996), 11A605
Cutting mechanism of superfinishing by fine CBN stone (Japanese), J Japan Soc Precision Eng 62(5) 666-670 (May 1996), 12A694
Study of the ultra precision grinding process on a magnetic disk substrate: Development of new bonding materials for fixed abrasives of grinding stone, Wear 195(1-2) 74-80 (Jul 1996), 12A695

272J. Casting

Asymptotic model of slab casting, Int J Mech Sci 37(8) 793-814 (Aug 1995), 1A732
Computer simulation of mould filling for horizontal castings and its experimental validation, European J Mech Eng 40(2) 89-101 (1995), 2A552
Finite-element analysis of solidification of aluminum with natural convection, J Mat Processing Tech 52(2-4) 592-609 (Jul 1995), 3A633
Steel-iron double-layered cylinder liner produced by centrifugal casting, JSME Int J Ser A 38(4) 588-593 (Oct 1995), 3A634
Computer simulation of the effect of wall thickness on the metal flow in diecasting dies, J Mat Processing Tech 52(2-4) 248-269 (Jul 1995), 3A907
Cast filling simulations of thin-walled cavities, Comput Methods Appl Mech Eng 128(3-4) 199-230 (Dec 1995), 5A580
Improvement of the efficiency of casting machines, J Machinery Manuf Reliab 2 68-71 (1995), 5T581
Use of images in a language- and culture-independent expert system for diagnosing pressure die-casting defects, J Mat Processing Tech 55(3-4) 296-302 (Dec 1995), 7A418
Development of the twin-roll casting process, J Mat Processing Tech 55(2) 76-84 (Nov 1995), 7A756
Research on itegrated system of casting technology CAD and numerical simulation (Chinese), J Dalian Univ Tech 35(6) 819-823 (1995), 7A757
Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), J Dalian Univ Tech 35(6) 823-827 (1995), 7A758
Solving the free boundary problem in continuous casting by using BEM, Appl Math Mech 16(12) 1201-1208 (Dec 1995), 8A65
Experimental study of castings deformation (Chinese), J Dalian Univ Tech 36(2) 174-178 (Mar 1996), 9A717
Pressure die casting: A model of vacuum pumping, J Manuf Sci Eng 118(2) 259-265 (May 1996), 11A606
Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, Model Simulation Mat Sci Eng 4(2) 161-177 (Mar 1996), 11A1199
Application of the BEM for numerical modeling of continuous casting, Comput Mech 18(1) 62-71 (May 1996), 12A696
Chrome-titanium surface alloying in a mould, J Machinery Manuf Reliab 1 84-87 (1996), 12T697
Reclassification of the die-filling stages in pressure die-casting processes, J Mat Processing Tech 57(3-4) 259-265 (Feb 1996), 12A698

272K. High deformation rate forming

Application of mechatronics technology to injection molding machine (Japanese), J Japan Soc Precision Eng 61(7) 939-942 (Jul 1995), 1T733
Neural network approach to flow stress evaluation in hot deformation, J Mat Processing Tech 53(3-4) 552-566 (Sep 1995), 3A389
Optimal pressure variation during the superplastic forming of a circular diaphragm, J Machinery Manuf Reliab 1 55-58 (1995), 3T635
Postbuckling of laminated composites with delaminations, AIAA J 33(10) 1963-1970 (Oct 1995), 3A636
Stress analysis of elastic streams in continuous forming operations, J Mech Phys Solids 43(11) 1773-1790 (Nov 1995), 3A637
Joints of steel-brass one-side welded by explosive method, Acta Phys Polonica A 89(3) 411-415 (Mar 1996), 9A718
Computer simulation of the deformation of dough-like materials in a parallel plate gripper, Proc Inst Mech Eng J Eng Manuf 210(B2) 119-126 (1996), 10A476
Development of an automatic scraping machine with recognition for bearing of scraped surfaces - 2nd Report: Development of a scraping motion mechanism (Japanese), J Japan Soc Precision Eng 62(4) 554-558 (Apr 1996), 11A607
Computational anisotropic plasticity for high-rate forming applications, Comput Methods Appl Mech Eng 131(1-2) 1-30 (Apr 1996), 12A699

272L. Residual stresses

Thermomechanical technique for measuring residual stress, Exp Tech 20(2) 25-27 (Apr 1996), 9T1296

272M. Wrapping and laying-up (composite materials)

Consolidation of GF-PP commingled yarn composites, Appl Composite Mat 1(6) 415-429 (1995), 1A734
Analytical models for low cost manufacturing of composite components by filament winding - Part II: Inverse kinematics, J Composite Mat 29(13) 1762-1788 (1995), 2A553
Compacting pressure and cure cycle for processing of thick composite laminates, Composites Sci Tech 54(3) 299-306 (1995), 2A554
Laminate temperature distributions and filling time prediction during non-isothermal impregnation of fiber preforms, J Reinforced Plastics Composites 14(10) 1069-1080 (Oct 1995), 2A555
Permeability measurement of bidirectional woven glass fibers, J Reinforced Plastics Composites 14(10) 1108-1120 (Oct 1995), 2A556

Room temperature formability of particle-reinforced metal matrix composites: Forging, extrusion, and deep drawing, Composites 26(11) 785-789 (Nov 1995), 2A557

Thermochemical and mechanical aspects of composite tape laying, J Composite Mat 29(14) 1908-1943 (1995), 2A558

Third International Conference on Flow processes in composite materials 94, held on July 7-9, 1994, Galway, Ireland, Composites Manuf 6(3-4) 119-295 (Dec 1995), 2A559

Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, Composites Sci Tech 54(4) 349-358 (1995), 3A638

Optimal positioning of heating lines in a compression molding die using the BEM, Eng Anal Boundary Elements 15(3) 261-266 (1995), 3A639

Innovative Processing and Characterization of Composite Materials, NCA-Vol 20-AMD-Vol 211 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA (ASME Press, New York, 1995) 4N16

Influence of reinforcing layer orientation on impact response of plain weave RTM composites, J Reinforced Plastics Composites 14(11) 1199-1225 (Nov 1995), 4A499

Auto-processing of very fine-scale composite materials by chaotic mixing of melts, Composites Part A Appl Sci and Manuf 27A(1) 37-47 (1996), 4A649

Fabrication of T-shaped structural composite through resin transfer molding, J Composite Mat 29(16) 2192-2214 (1995), 4A650

Study on compression transfer molding, J Composite Mat 29(16) 2180-2191 (1995), 4A651

Manufacture of polyphenylene sulfide matrix composites via the powder impregnation route, Composites Part A Appl Sci and Manuf 27A(1) 49-56 (1996), 4A948

Analysis of transverse flow in aligned fibrous porous media, Composites Part A Appl Sci and Manuf 27A(1) 25-34 (1996), 4A960

Effects of processing temperature and layup on matrix cracking, J Reinforced Plastics Composites 14(12) 1252-1258 (Dec 1995), 5A582

Modeling and numerical analysis of compression molding of 3D thin parts with curing process, J Eng Mat Tech 117(3) 239-254 (Jul 1995), 5A583

HIP '96 International Conference on Hot Isostatic Pressing (ASM Int, Materials Park OH, 1996) 6N23

CAD-CAM of 3D woven structures (preforms) for fiber-reinforced composites, Composites Part A Appl Sci and Manuf 27A(2) 111-117 (1996), 6A427

Hiping conditions for processing of metal matrix composites using the continuum theory for sintering - I: Theoretical analysis, Acta Mat 44(2) 707-713 (Feb 1996), 6A582

Hiping conditions for processing of metal matrix composites using continuum theory for sintering - II: Application to fiber reinforced titanium alloys, Acta Mat 44(2) 715-724 (Feb 1996), 6A583

Modeling and simulation of resin transfer molding: Gate control, venting, and dry spot prediction, Composites Part A Appl Sci and Manuf 27A(2) 135-141 (1996), 6A584

Spinning of fine yarns from sliver, Fibres Textiles in E Europe 2(1) 25-29 (Feb 1994), 6T585

Image processing system for measuring geometrical properties of fibers and yarns, Fibres Textiles in E Europe 2(1) 30-33 (Feb 1994), 6T590

Recent Advances in Heat Transfer and Microstructure Modeling for Metal Processing, MD-Vol 67-MED-Vol 4 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 7N19

Processing of short fiber-thermosetting matrix composites, Composites Part A Appl Sci and Manuf 27A(3) 229-240 (1996), 7A564

Automating the manufacture of composite broadgoods, Composites Part A Appl Sci and Manuf 27A(3) 191-200 (1996), 7A759

Staged curing of composite materials, Composites Part A Appl Sci and Manuf 27A(3) 219-227 (1996), 7A760

Hardness of electro plated coatings, Japan J Trib 40(3) 199-209 (1995), 7T998

Improved mechanical properties in hydrodynamically-aligned, short-fiber composite materials, J Composite Mat 30(1) 2-12 (1996), 8A454

Predicting warpage of injection molded fiber-reinforced plastics, J Thermoplastic Composite Mat 9(1) 90-106 (Jan 1996), 8A455

4th International Conference on Automated Composites, Nottingham UK, Sept 6-7, 1995, Composites Part A Appl Sci and Manuf 27A(4) 247-336 (1996), 8A557

Determination of manufacturing conditions for hot-gas-aided thermoplastic tape winding, J Thermoplastic Composite Mat 9(1) 35-53 (Jan 1996), 8A558

Optimal pultrusion process conditions for improving the dynamic properties of graphite-epoxy composite beams, Mat Eval 54(3) 386-392 (Mar 1996), 8A559

Flow of continuous fiber-reinforced composites in steady shear, Composites Sci Tech 56(1) 67-74 (1996), 9A532

Cycle time reduction in resin transfer molding by phased catalyst injection, Composites Sci Tech 56(2) 123-133 (1996), 9A719

Experimental investigation of resin temperature and pressure during filling and curing in a flat steel RTM mold, Composites Part A Appl Sci and Manuf 27A(5) 347-356 (1996), 9A720

Heated chamber winding of thermoplastic powder-impregnated composites - Part 1: Technology and basic thermochemical aspects, Composites Part A Appl Sci and Manuf 27A(5) 387-392 (1996), 9A721

Heated chamber winding of thermoplastic powder-impregnated composites - Part 2: Influence of degree of impregnation on mechanical properties, Composites Part A Appl Sci and Manuf 27A(5) 393-399 (1996), 9A722

Measurement techniques and effects on in-plane permeability of woven cloths in resin transfer molding, Composites Part A Appl Sci and Manuf 27A(5) 401-408 (1996), 9A723

Temperature and cure in pultruded composites using multi-step reaction model for resin, J Reinforced Plastics Composites 15(3) 295-321 (Mar 1996), 9A724

Textile composites, Composites Sci Tech 56(3) 209-386 (1996), 10A576

Effect of carbonization heating rate, microstructure, and layup on the interlaminar tensile properties of a 2D carbon-carbon composite, J Eng Mat Tech 118(2) 241-246 (Apr 1996), 10A583

Continuous curing process for thermoset polymer composites - Part 2: Experimental results for a graphite-epoxy laminate, J Composite Mat 30(5) 627-647 (1996), 10A716

Die-less forming of large and variable-radii of curvature in continuous-fiber thermoplastic-matrix composite materials, J Thermoplastic Composite Mat 9(2) 151-182 (Apr 1996), 10A717

Processing characteristics in different semi-crystalline thermoplastic composites using process simulated laminate (PSL) methodology, J Thermoplastic Composite Mat 9(2) 183-198 (Apr 1996), 10A718

Hot pressing of plasma-sprayed SiC fiber-reinforced Ti-6Al-4V alloy, J Composite Tech Res 18(2) 89-95 (Apr 1996), 11A608

Influence of water on energy absorption of filament winding ring under lateral impact loading (Japanese), J Soc Mat Sci Japan 45(5) 511-516 (May 1996), 12A548

272N. Powder metallurgy

Dependent scattering effects in latex-sphere suspensions and scattering powders, Waves in Random Media 5(4) 413-426 (Oct 1995), 3A640

Net Shape Processing of Powder Materials, AMD-Vol 216 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N17

Micro mechanical based constitutive model for FE simulation of hot isostatic pressing of powder, Comput Methods Appl Mech Eng 128(1-2) 191-198 (Dec 1995), 5A584

Workability in forging of powder metallurgy compacts, J Mat Processing Tech 54(1-4) 97-102 (Oct 1995), 6A586

Powder particle structure formation during solidification in the process of metal atomization, J Mat Processing Tech 54(1-4) 249-260 (Oct 1995), 6A1171

Macrorheological theory of hot compaction of composites, Mech of Composite Mat 31(6) 840-845 (Dec 1995), 8A560

Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, J Tech Phys 36(4) 389-400 (1995), 9A725

Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, J Tech Phys 36(4) 375-387 (1995), 9A726

Flexible pharmaceutical powder production, Int J Comput Integrated Manuf 9(3) 227-233 (Jun 1996), 10A493

Simplified 3D simulation of non-isothermal filling in metal injection molding by the FEM, Eng Comput 13(2/3/4) 111-121 (1996), 11A609

Finite-element prediction of densification kinetics during the hot isostatic pressing of metal powder compacts, J Mat Processing Tech 57(3-4) 382-392 (Feb 1996), 12A700

272P. Rapid solidification

Intrinsic equation of interfacial motion for the solidification of a pure hypercooled melt, Physica D 85(3) 348-374 (Aug 1995), 1A1260

Dynamics of spray-formed billets, SIAM J Appl Math 55(5) 1161-1203 (Oct 1995), 2A560

Simulation of spray pyrolysis for ceramic powder preparation, Particulate Sci Tech 13(2) 149-167 (Jun 1995), 3A641

Structure formation and strength development at early stage of hydration of rapid hardening portland cement (Japanese), J Soc Mat Sci Japan 44(505) 1238-1243 (Oct 1995), 4A481

Three-dimensional fluid flow model for puddle formation in the single-roll rapid solidification process, Appl Math Model 19(12) 704-712 (Dec 1995), 4A652

Fabrication and mechanical properties of 2024 Al-SiC_p composites by mechanical alloying, J Mat Processing Manuf Sci 4(1) 55-67 (Jul 1995), 7A761

Phase-field theory for solidification based on a general anisotropic sharp-interface theory with interfacial energy and entropy, Physica D 91(1-2) 143-181 (Mar 1996), 8A7

Optimal strategies for the cooling of steel strips in hot strip mills, Inverse Prob Eng 2(2) 103-118 (1995), 8A561

Dynamical patterns in directional solidification, Physica D 93(1-2) 23-51 (May 1996), 11A610

Effects of the rate of latent heat release on fluid flow and solidification patterns during alloy solidification, Int J Eng Sci 34(6) 715-737 (May 1996), 11A611

Three-dimensional microfabrication by localized electrochemical deposition, J Microelectromechanical Syst 5(1) 24-32 (Mar 1996), 11A612

Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, Model Simulation Mat Sci Eng 4(2) 161-177 (Mar 1996), 11A1199

272R. Microprocessing (eg by laser and ion beams)

Color drawing on ceramic surface by YAG laser irradiation (Japanese), J Japan Soc Precision Eng 61(7) 1026-1030 (Jul 1995), 1A435

Maskless patterning of gold electrical contacts by laser plating in a flowing solution, Int J Japan Soc Precision Eng 29(1) 23-28 (Mar 1995), 1A437

Development of new ultrasonic dressing equipment (Japanese), J Japan Soc Precision Eng 61(7) 986-990 (Jul 1995), 1A735

Evaporative material removal process with a continuous wave laser, Comput Struct 57(4) 663-671 (Nov 1995), 1A736

Low temperature fabrication of ZrN thin film using ion beam (Japanese), J Japan Soc Precision Eng 61(7) 1016-1020 (Jul 1995), 1A737

Prediction of laser transformation hardening depth using a line source model, Acta Metall Mat 43(9) 3563-3569 (Sep 1995), 1A738

Studies of super-smooth polishing on aspherical surfaces, Int J Japan Soc Precision Eng 29(1) 1-4 (Mar 1995), 1A739

Study on a new internal finishing process by the application of magnetic abrasive machining: Discussion of the cylindricity (Japanese), J Japan Soc Precision Eng 61(7) 996-1000 (Jul 1995), 1A740

Algorithm for surface design and tool path generation in wire-cut electrical discharge machining, Int J Machine Tools Manuf 35(12) 1703-1714 (Dec 1995), 2A561

Beam delivery characteristics of optical fibers for carbon monoxide lasers, Opt Lasers Eng 23(4) 221-231 (1995), 2A562

Determination of optimal cutting parameters in wire electrical discharge machining, Int J Machine Tools Manuf 35(12) 1693-1701 (Dec 1995), 2A563

Fractal based surface characterization of laser treated polymer foils, Chaos Solitons Fractals 5(1) 9-14 (Jan 1995), 3A642

Stability of plasma induced during CW CO_2 laser welding, J Tech Phys 36(2) 131-148 (1995), 3A643

Thermomechanical response analysis of lithographic mask structure using FEM, JSME Int J Ser A 38(4) 563-571 (Oct 1995), 3A644

Three-dimensional micro fabrication by precision cutting technique (Japanese), J Japan Soc Precision Eng 61(10) 1361-1364 (Oct 1995), 4T642

Studies of super-smooth polishing on aspherical surfaces (Japanese), J Japan Soc Precision Eng 61(10) 1393-1396 (Oct 1995), 4T647

Biomachining of metals using bacteria (Japanese), J Japan Soc Precision Eng 61(10) 1389-1392 (Oct 1995), 4T653

Development and FE analysis of the finishing system using rotating magnetic field, Int J Machine Tools Manuf 36(2) 245-253 (Feb 1996), 4A654

Fabrication of 3D fine objects with focused energy beams (Japanese), J Japan Soc Precision Eng 61(10) 1377-1380 (Oct 1995), 4T655

Fabrication of micro shape by trans replica and plating technique (Japanese), J Japan Soc Precision Eng 61(10) 1381-1384 (Oct 1995), 4T656

Microforming by photopolymerization (Japanese), J Japan Soc Precision Eng 61(10) 1385-1388 (Oct 1995), 4T657

Micromachining of 3D microstructure by etching (Japanese), J Japan Soc Precision Eng 61(10) 1373-1376 (Oct 1995), 4T658

Simulation of optimum control for electro-discharge dressing using neural networks, Int J Machine Tools Manuf 36(2) 173-181 (Feb 1996), 4A659

Single point diamond turning of chalcone organic nonlinear optical crystals for second harmonic generation (Japanese), J Japan Soc Precision Eng 61(10) 1423-1427 (Oct 1995), 4T660

Study for ultra precision processing of silicon wafer by lapping stone: By new lapping stone instead of free abrasive lapping process (Japanese), J Japan Soc Precision Eng 61(10) 1428-1432 (Oct 1995), 4A661

Study of fusing and vaporizing-process of fcc metal due to laser irradiation: Molecular dynamics simulation (Japanese), J Japan Soc Precision Eng 61(10) 1433-1437 (Oct 1995), 4A662

Three-dimensional processing by micro electro-discharge machining (Japanese), J Japan Soc Precision Eng 61(10) 1369-1372 (Oct 1995), 4T663

Fabrication of vapor-deposited micro heat pipe arrays as an integral part of semiconductor devices, J Microelectromechanical Syst 4(3) 119-131 (Sep 1995), 5T349

2nd International Conference of Beam Processing of Advanced Materials (ASM Int, Materials Park OH, 1996) 6N18

Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, J Micromech Microeng 5(4) 270-275 (Dec 1995), 6T347

Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, J Micromech Microeng 5(4) 305-312 (Dec 1995), 6T350

Modification of tribological properties of surface layer by laser beam diffusion (Polish), Zagadnienia Eksploatacji Maszyn 30(2) 167-174 (1995), 6A587

Photoforming applied to fine forming, JSME Int J Ser C 38(4) 811-817 (Dec 1995), 6A588

Chip forming temperature on micro cutting - 2nd report: Influence of cutting speed and material properties on thermal partition coefficient (Japanese), J Japan Soc Precision Eng 62(1) 120-124 (Jan 1996), 7A762

Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), J Japan Soc Precision Eng 61(12) 1730-1734 (Dec 1995), 7A763

High grade precision polishing technique by a new polishing machine for chalcone crystals, Int J Japan Soc Precision Eng 29(3) 217-221 (Sep 1995), 7T764

Kinetic theory approach for laser pulse heating process, Opt Lasers Eng 24(4) 319-337 (1996), 7A765

Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), Rev Francaise Mec 0(4) 271-276 (1995), 7T766

Micromachining: Present and future (Japanese), J Japan Soc Precision Eng 62(1) 52-58 (Jan 1996), 7T767

Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), Rev Francaise Mec 0(4) 241-245 (1995), 7A768

Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), Rev Francaise Mec 0(4) 247-253 (1995), 7A769

New trend of energy beam processing technology (Japanese), J Japan Soc Precision Eng 62(1) 36-41 (Jan 1996), 7T770

New trends in precision metal forming (Japanese), J Japan Soc Precision Eng 62(1) 42-45 (Jan 1996), 7T771

Surface treatment of metallic samples by ultraviolet laser (French), Rev Francaise Mec 0(4) 265-269 (1995), 7A772

Controlling the dimensions of laser-chemical vapor-deposited metallurgy, J Electron Packaging 118(1) 7-10 (Mar 1996), 8A562

TMS-AIME Symposium on structure and properties of nanophase materials Las Vegas, Nevada, Feb 13-15, 1995, Nanostruct Mat 7(1-2) 1-268 (1996), 8A563

Boundary element method in evaporative laser cutting, Appl Math Model 20(4) 274-282 (Apr 1996), 9A106

Effect of coolant of water-solution in superfinishing: Application of electrolytic in-process dressing (Japanese), J Japan Soc Precision Eng 62(2) 252-257 (Feb 1996), 9A727

Experimental analysis of ultraprecision machining, Int J Japan Soc Precision Eng 29(4) 287-290 (Dec 1995), 9A728

Focused ion beam machining of diamond chips and probes, Int J Japan Soc Precision Eng 29(4) 295-300 (Dec 1995), 9T729

Laser microstructure modification of metallic materials, Acta Phys Polonica A 89(2) 171-182 (Feb 1996), 9A730

Micro machining and silicon dynamic sensors (Japanese), J Japan Soc Precision Eng 62(3) 339-340 (Mar 1996), 9T731

Molecular dynamics analysis of nanometric cutting process, Int J Japan Soc Precision Eng 29(4) 283-286 (Dec 1995), 9A732
New internal finishing process by applying magnetic abrasive finishing through the use of the pole rotation system: Processing principle with a few finishing characteristics, Int J Japan Soc Precision Eng 29(4) 309-310 (Dec 1995), 9T733
Six-axis control finishing for character line (Japanese), J Japan Soc Precision Eng 62(2) 230-235 (Feb 1996), 9A734
Size effect of micro-cutting force in ultraprecision machining, JSME Int J Ser C 39(1) 164-169 (Mar 1996), 9A735
Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), J Japan Soc Precision Eng 62(3) 408-412 (Mar 1996), 9T736
Study of a cylindrical magnetic abrasive finishing behaviors of magnetic abrasives and generating mechanism finishing pressure (Japanese), J Japan Soc Precision Eng 62(2) 258-259 (Feb 1996), 9T737
CMOS foundry-based micromachining, J Micromech Microeng 6(1) 122-127 (Mar 1996), 10T452
Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, J Micromech Microeng 6(1) 42-45 (Mar 1996), 10T459
LPCVD against PECVD for micromechanical applications, J Micromech Microeng 6(1) 1-13 (Mar 1996), 10T460
New process for releasing micromechanical structures in surface micromachining, J Micromech Microeng 6(1) 36-38 (Mar 1996), 10T468
Analysis and computer simulation of the electrochemical machining process: A stepped moving tool eroding a plane surface, Proc Inst Mech Eng J Eng Manuf 210(B2) 109-118 (1996), 10A719
Diagnostic set-up for time-resolved imaging of laser-induced ablation, Opt Lasers Eng 25(1) 1-12 (Jul 1996), 10T720
Model-based path planning for laser cutting of curved trajectories, Int J Machine Tools Manuf 36(6) 739-754 (Jun 1996), 10A721
Plasma treatment of wool: From lab curiosity to industrial reality, Fibres Textiles in E Europe 3(4) 45-49 (Dec 1995), 10A722
Survey on the reactive ion etching of silicon in microtechnology, J Micromech Microeng 6(1) 14-28 (Mar 1996), 10T723
Released Si microstructures fabricated by deep etching and shallow diffusion, J Microelectromechanical Syst 5(1) 18-23 (Mar 1996), 11T360
CMP planarization: Process, Machine, and consumables (Japanese), J Japan Soc Precision Eng 62(4) 496-500 (Apr 1996), 11T613
Current state of processing and problems of chemical-mechanical polishing on the semiconductor device manufacturing (Japanese), J Japan Soc Precision Eng 62(4) 491-495 (Apr 1996), 11T614
Current status and future challenges in endpoint detection techniques for mechanical planarization process (Japanese), J Japan Soc Precision Eng 62(4) 507-512 (Apr 1996), 11T615
Development of the micromilling process for high-aspect-ratio microstructures, J Microelectromechanical Syst 5(1) 33-38 (Mar 1996), 11A616
Diamond synthesis by magnetic field assisted arc discharge plasma jet CVD (Japanese), J Japan Soc Precision Eng 62(4) 544-548 (Apr 1996), 11A617
Evaluation of pattern planarization polishing process (Japanese), J Japan Soc Precision Eng 62(4) 513-516 (Apr 1996), 11T618
Fabrication of a mechanical antireflection switch for fiber-to-the-home systems, J Microelectromechanical Syst 5(1) 45-51 (Mar 1996), 11T619
Fundamental study on electric field assisted biomachining (Japanese), J Japan Soc Precision Eng 62(4) 540-543 (Apr 1996), 11A620
Present status of post CMP cleaning and future prospects (Japanese), J Japan Soc Precision Eng 62(4) 501-506 (Apr 1996), 11T621
Study into the effect of beam waist position on hole formation in the laser drilling process, Proc Inst Mech Eng J Eng Manuf 210(B3) 271-277 (1996), 11A622
Study of polishing of silicon wafers and processing by an AFM using tetra-mechyl-ammonium-hydroxide (Japanese), J Japan Soc Precision Eng 62(4) 531-534 (Apr 1996), 11A623
Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), J Dalian Univ Tech 36(3) 297-300 (May 1996), 11A1246
Improvement in hole quality at laser drilling of GFRP (Japanese), J Soc Mat Sci Japan 45(5) 577-581 (May 1996), 12A701
Lapping system for ultra-precision bearing balls (Japanese), J Japan Soc Precision Eng 62(5) 681-685 (May 1996), 12A702
Manufacturing of high aspect ratio micro structures using UV sensitive photopolymer, JSME Int J Ser C 39(2) 387-396 (Jun 1996), 12A703

272T. Ceramics, refractories, glasses

Plane stress model for fracture of ceramics during laser cutting, Int J Machine Tools Manuf 35(11) 1493-1506 (Nov 1995), 1T741
Investigation on the cutting mode and behavior of single crystalline silicon under single point diamond cutting, Int J Japan Soc Precision Eng 29(2) 128-133 (Jun 1995), 3A622
Modeling and the adaptive solution of reactive vapor infiltration problems, Model Simulation Mat Sci Eng 3(6) 737-752 (Nov 1995), 6A589
Cutting temperature of ceramic tools in high speed machining of difficult-to-cut materials, Int J Machine Tools Manuf 36(5) 611-634 (May 1996), 8T564
Development of multi-purpose ductile-regime machining system for ceramics and glasses (Japanese), J Japan Soc Precision Eng 62(2) 236-241 (Feb 1996), 9A738
Superfinishing of fine ceramics: Influence of grain size on finishing performance (Japanese), J Japan Soc Precision Eng 62(3) 418-422 (Mar 1996), 9A739
Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), J Japan Soc Precision Eng 62(3) 413-417 (Mar 1996), 9A743
Study of polishing of silicon wafers and processing by an AFM using tetra-mechyl-ammonium-hydroxide (Japanese), J Japan Soc Precision Eng 62(4) 531-534 (Apr 1996), 11A623
Cryogenic PCBN turning of ceramic (Si_3N_4), Wear 195(1-2) 1-6 (Jul 1996), 12A704
Formation of holes in engineering ceramic plates by press-working, JSME Int J Ser C 39(2) 426-431 (Jun 1996), 12A705

272V. Plastics, elastomers, rubbers

Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302 (Kluwer, MA, 1995) 5N27
New approaches to the spinning of cellulose fibers, Fibres Textiles in E Europe 1(3) 34-36 (Jun 1993), 6T464
Image processing system for measuring geometrical properties of fibers and yarns, Fibres Textiles in E Europe 2(1) 30-33 (Feb 1994), 6T590
Melt-blown absorbent filter nonwovens with activated carbon, Fibres Textiles in E Europe 1(2) 24-25 (Apr 1993), 6T591
Methods of continuous control of irregularities and surface defects in chemical threads and yarns, Fibres Textiles in E Europe 1(3) 31-33 (Jun 1993), 6T592
Use of microfibers for the manufacture of fine yarns using rotor and ring spinning machines, Fibres Textiles in E Europe 1(3) 28-30 (Jun 1993), 6T593
Determination of parameters affecting solder paste tack strength as measured in the IPC tack test: A classical design of experiments approach, J Electron Packaging 118(2) 94-100 (Jun 1996), 12A706

274. FRACTURE AND DAMAGE PROCESSES

274B. Crack Initiation

Numerical simulation of the initiation and growth of new fatigue cracks following crack intersections, Int J Fatigue 17(6) 437-446 (Aug 1995), 1A742
Boundary element analysis of crack intersection, initiation and growth at pin loaded holes, Fatigue Fracture Eng Mat Struct 18(9) 949-957 (Sep 1995), 2A46
Use of notch stress intensity factor as a fatigue crack initiation parameter, Eng Fracture Mech 52(3) 503-512 (Oct 1995), 2A564
Tool temperatures and crack development in milling cutters, Int J Machine Tools Manuf 36(1) 129-140 (Jan 1996), 3A645
Mechanisms of fretting fatigue, JSME Int J Ser A 38(4) 405-415 (Oct 1995), 3A661
Applications of Experimental Mechanics to Electronic Packaging, EEP-Vol 131/AMD-Vol 214 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N13
Acoustic emission in dynamic compression and its relevance to tribology, Trib Int 28(5) 301-306 (Aug 1995), 4T664
Study of orthotropic materials: The interphase model and the crack initiation, Arch Appl Mech 66(1-2) 111-125 (Dec 1995), 5A470
Branching problem of crack and debonding at an end of stiffened boundary for thin plate bending (Japanese), Proc JSCE 525(I-33) 27-38 (Oct 1995), 5A502
Numerical elastoplastic model for rough contact, J Trib 117(3) 422-429 (Jul 1995), 5A585
Mechanics of Hertzian cracking, Trib Int 28(6) 357-362 (Sep 1995), 5A614
Finite element simulation of mode I dynamic, ductile fracture initiation, Int J Solids Struct 33(8) 1191-1207 (Mar 1996), 6A594
Ductile crack initiation in steels, Acta Mat 44(2) 831-843 (Feb 1996), 6A647
Analysis of systems of interacting surface cracks, J Machinery Manuf Reliab 3 38-42 (1995), 6A675
Prediction of the growth of internal fatigue cracks, J Machinery Manuf Reliab 3 32-37 (1995), 6A677
Crack initiation load characterization using the critical plastic energy, Eng Fracture Mech 53(4) 571-580 (Mar 1996), 8A565
Observations of tension-compression asymmetry in the cyclic deformation of aluminum alloy 7075, Fatigue Fracture Eng Mat Struct 19(1) 85-97 (1996), 8A566
Effective crack growth model for residual strength evaluation of composite laminates with circular holes, J Composite Mat 30(2) 142-163 (1996), 8A644
Analytical model for fracture behaviors of pseudo strain-hardening cementitious composites, Proc JSCE 532(V-30) 209-219 (Feb 1996), 9A740
Biaxial fatigue crack initiation life prediction of solid cylindrical specimens with transverse circular holes, Int J Fatigue 18(2) 111-117 (Feb 1996), 9A741
Continuum damage mechanics model for void growth and micro crack initiation, Eng Fracture Mech 53(6) 917-928 (Apr 1996), 9A742
Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), J Japan Soc Precision Eng 62(3) 413-417 (Mar 1996), 9A743
Study for crack detection technique on black color ceramics using FID, Int J Japan Soc Precision Eng 29(4) 318-324 (Dec 1995), 9A876
Threshold stress criterion for delayed hydride crack initiation at a blunt notch in zirconium alloys, Int J Pressure Vessels Piping 68(1) 53-61 (1996), 10A1449
Fracture Mechanics, Volume 26 (ASTM, 1995) 11N28
Elastic-Plastic Fracture Laboratory Test Procedures, Manual 27 (ASTM, 1996) 12N24
Fatigue crack initiation in solder joints, J Electron Packaging 118(2) 41-44 (Jun 1996), 12A707

274C. Subcritical crack propagation

Correlation of fatigue crack growth behavior with crack closure in peened specimens, Fatigue Fracture Eng Mat Struct 18(7-8) 811-820 (Aug 1995), 1A743
Fatigue crack growth from 2D surface defects, Fatigue Fracture Eng Mat Struct 18(6) 653-659 (Jun 1995), 1A744
Fatigue crack growth prediction model with load interaction effects using crack closure concept, Proc JSCE 519(I-32) 37-49 (Jul 1995), 1T745
Analysis of short crack growth from microscopic fatigue properties, Theor Appl Fracture Mech 23(3) 187-198 (Sep 1995), 2A565
Fatigue crack-tip deformation, crack growth and life prediction in polycarbonate, Exp Mech 35(3) 251-256 (Sep 1995), 2A566
Hold time crack growth analysis at elevated temperatures, Eng Fracture Mech 52(3) 433-444 (Oct 1995), 2A567
Influence of transformation-induced crack closure on slow fatigue crack growth under variable amplitude loading, Fatigue Fracture Eng Mat Struct 18(9) 935-948 (Sep 1995), 2A568
Model for sliding mode crack closure - Part I: Theory for pure mode II loading, Eng Fracture Mech 52(4) 599-611 (Nov 1995), 2A569
Model for sliding mode crack closure - Part II: Mixed mode I and II loading and application, Eng Fracture Mech 52(4) 613-623 (Nov 1995), 2A570
New fracture mechanics method to predict the fatigue life of welded cruciform joints, Eng Fracture Mech 52(2) 215-229 (Sep 1995), 2A571
Residual stresses at a longitudinal stiffener-web frame intersection and their effects on crack growth, Marine Struct 8(6) 603-616 (1995), 2A572
Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, Eng Fracture Mech 52(3) 525-555 (Oct 1995), 2A573
Model of brittle-dominated wear due to delayed fracture: Vertical crack growth, Wear 188(1-2) 166-174 (Sep 1995), 3A646
R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), J Soc Mat Sci Japan 44(504) 1133-1137 (Sep 1995), 3A647
Constraint effects on ductile crack growth in cladded components subjected to uniaxial loading, Fatigue Fracture Eng Mat Struct 18(10) 1051-1069 (Oct 1995), 3A687
Effect of elastic mismatch on the growth of a crack initially terminated at an interface in elastic plastic bimaterials, Fatigue Fracture Eng Mat Struct 18(10) 1201-1212 (Oct 1995), 3A688
Applications of Experimental Mechanics to Electronic Packaging, EEP-Vol 131/AMD-Vol 214 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N13
Crack propagation models for rock fracture in a geothermal energy reservoir, SIAM J Appl Math 55(6) 1592-1608 (Dec 1995), 4A625
Effects of loading variables on fatigue crack growth in liquid metal environments, Int J Fatigue 17(7) 501-505 (Oct 1995), 4A665
Crack propagation in piezoelectric materials under combined mechanical and electrical loadings, Acta Mat 44(1) 173-200 (Jan 1996), 5A586
Determination of the partitioning point dividing ΔK into ΔK_{eff}, Eng Fracture Mech 53(1) 23-36 (Jan 1996), 5A587
Effect of water flow rate upon the environmentally assisted cracking response of a low-alloy steel, J Pressure Vessel Tech 117(3) 238-244 (Aug 1995), 5A588
Fractographic analyses of fatigue crack growth in D16T alloy subjected to biaxial cyclic loads at various R-ratios, Fatigue Fracture Eng Mat Struct 18(11) 1263-1276 (Nov 1995), 5T589
Fully-plastic crack propagation in stiffened plates, Int J Solids Struct 33(5) 629-645 (Feb 1996), 5A629
Materials division diamond jubilee special issue, J Eng Mat Tech 117(4) 352-493 (Oct 1995), 5A631
Crack aspect development curves and fatigue life prediction for surface cracks at weld toes in the presence of residual stress, Int J Fatigue 17(8) 551-557 (Nov 1995), 6A595
Experimental investigation on low-temperature fatigue crack propagation in offshore structural steel A131 under random sea ice loading, Eng Fracture Mech 53(2) 231-237 (Jan 1996), 6A596
Failures of welded titanium aircraft ducts, Eng Failure Anal 2(4) 257-273 (Dec 1995), 6A597
Fatigue crack growth under mode II loading, Fatigue Fracture Eng Mat Struct 18(12) 1443-1454 (Dec 1995), 6A598
Finite element with inner linkage rods in capturing the crack localization of concrete structures, Proc JSCE 526(II) 111-120 (Nov 1995), 6A599
Investigation of crack closure and the propagation of semi-elliptical fatigue cracks in QIN (HY80) pressure vessel steel, Int J Fatigue 17(8) 577-581 (Nov 1995), 6A600
Contact interaction of the crack edges in a plane under harmonic load, Prikl Mekh (Appl Mech) 30(12) 75-79 (1994), 7A153
Analyzing the fatigue crack growth in structural details, Eng Fracture Mech 53(3) 345-361 (Feb 1996), 7A773
Crack growth mechanism in asphaltic mixes, Heron 40(3) 181-199 (1995), 7A774
Development of an accurate model for the fatigue assessment of doubly curved cracks in tubular joints, Int J Fracture 73(2) 129-148 (1995), 7A775
Fatigue crack propagation life analysis of solder joints under thermal cyclic loading, Theor Appl Fracture Mech 24(2) 157-164 (Jan 1996), 7A776
Long-term failure of cylindrically anisotropic viscoelastic material with a crack under variable load, Prikl Mekh (Appl Mech) 30(12) 61-68 (1994), 7A777
Plane strain crack growth models for fatigue crack growth life predictions, J Pressure Vessel Tech 118(1) 78-85 (Feb 1996), 7A778
Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), Proc JSCE 529(III-33) 165-176 (Dec 1995), 7T779
Fatigue crack growth rate prediction deparing from Coffin-Manson Concepts (Spanish), J Brazilian Soc Mech Sci 17(3) 292-303 (1995), 7A786
Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, JSME Int J Ser A 39(1) 34-41 (Jan 1996), 7A788
Plastic deformation of fracture surface contacts in fatigue, Eng Fracture Mech 53(3) 441-448 (Feb 1996), 7A823
Dynamic response of tubular T-joints under the influence of propagating cracks, J Offshore Mech Arctic Eng 118(1) 71-78 (Feb 1996), 8A146
Crack growth arresting property of a hole and Brinell-type dimple, Fatigue Fracture Eng Mat Struct 19(1) 39-49 (1996), 8A567
Crack growth of through and part-through thickness cracks under cyclic loading, Theor Appl Fracture Mech 24(3) 243-251 (Mar 1996), 8A568
Delamination growth and its effect on crack propagation carbon fiber reinforced aluminum laminates under fatigue loading, Acta Mat 44(3) 1181-1188 (Mar 1996), 8A569
Delay effects in fatigue crack propagation, Int J Pressure Vessels Piping 67(1) 1-5 (1996), 8A570
Ductile crack growth - III: Transition to cleavage fracture incorporating statistics, J Mech Phys Solids 44(4) 603-639 (Apr 1996), 8A571
Effect of pressure overload on fatigue crack growth in pressure vessels, Fatigue Fracture Eng Mat Struct 19(1) 1-13 (1996), 8A572
Effects of short cracks on fatigue life calculations, Int J Fatigue 18(1) 25-31 (Jan 1996), 8A573

Fatigue crack growth simulations based on free front shape development, Fatigue Fracture Eng Mat Struct 19(1) 99-109 (1996), 8A574

Fatigue life of an autofrettaged thick-walled pressure vessel with an external groove, Fatigue Fracture Eng Mat Struct 19(1) 15-25 (1996), 8A575

Mode II stable crack growth, Fatigue Fracture Eng Mat Struct 19(1) 75-84 (1996), 8A576

Nonlocal damage mechanics approach to high-temperature fatigue crack growth, Eng Fracture Mech 53(4) 535-543 (Mar 1996), 8A577

Part-through cracks in round bars under cyclic combined axial and bending loading, Int J Fatigue 18(1) 33-39 (Jan 1996), 8A578

Service-life estimation of extrusion dies by numerical simulation of fatigue-crack-growth, Int J Mech Sci 38(5) 527-538 (May 1996), 8A579

Experimental study of the mechanisms of crack extension along an oxide-metal interface, Acta Mat 44(3) 863-871 (Mar 1996), 8A663

Crack interaction, coalescence, and mixed-mode fracture mechanics, Fatigue Fracture Eng Mat Struct 19(1) 51-63 (1996), 8A670

Micromechanical model of stage I to stage II crack growth transition for aluminum alloys, Theor Appl Fracture Mech 24(3) 217-231 (Mar 1996), 8A678

Applying strain energy density factor theory to propagation estimating of surface crack in tubular T-joints, Eng Fracture Mech 53(6) 849-858 (Apr 1996), 9A744

Effect of a superimposed constant load on the criterion for stable crack growth, Int J Pressure Vessels Piping 67(2) 113-117 (Jul 1996), 9A745

Study on crack models caused by pressure due to corrosion products (Japanese), Proc JSCE 532(V-30) 159-166 (Feb 1996), 9A746

Practical procedure for evaluating SIFs along fronts of semi-elliptical surface cracks at weld toes in complex stress fields, Int J Fatigue 18(2) 127-135 (Feb 1996), 9A803

Effect of inertial loadings on the criterion for stable growth of a crack in a piping system, Int J Pressure Vessels Piping 67(2) 119-125 (Jul 1996), 9A832

Analysis of stable crack growth in brittle materials - Part I: A process zone model, Int J Fracture 75(2) 95-114 (1995), 10A724

Analysis of stable crack growth in brittle materials - Part II: A bridge zone model, Int J Fracture 75(2) 115-136 (1995), 10A725

Characterization of 2D crack propagation behavior by simulation and analysis, Int J Fracture 75(3) 247-259 (1995), 10A726

Significance of crack tip deformation for short and long fatigue cracks, Fatigue Fracture Eng Mat Struct 19(4) 475-484 (1996), 10A740

Evaluation of K_{II} using a copper foil when assessing frictional forces on crack surfaces, Fatigue Fracture Eng Mat Struct 19(4) 451-459 (1996), 10A836

Dual BEM for transient thermoelastic crack problems, Int J Solids Struct 33(19) 2695-2718 (Aug 1996), 11A59

Deviant crack path behavior of aluminum-lithium alloy AA8090 plate, Proc Inst Mech Eng J Aerospace Eng 210(G2) 117-123 (1996), 11A624

Effects of dendrite cell size and particle distribution on the near-threshold fatigue crack growth behavior of cast Al-SiCp composites, Acta Mat 44(6) 2249-2257 (Jun 1996), 11A625

J-integral approach to mode III fatigue crack propagation in steel under torsional loading, Fatigue Fracture Eng Mat Struct 19(5) 571-579 (1996), 11A626

R-curve and subcritical crack growth behavior at elevated temperatures in coarse grain alumina, Acta Mat 44(6) 2259-2264 (Jun 1996), 11A627

Elastic-Plastic Fracture Laboratory Test Procedures, Manual 27 (ASTM, 1996) 12N24

Determination of fatigue crack propagation rates under mixed mode (I + III) loading, Int J Fatigue 18(3) 197-203 (Apr 1996), 12A708

Effect of biaxial stress ratio on the propagation behavior of mode I surface cracks by the combination of plane bending and cyclic torsion, Int J Fatigue 18(3) 205-211 (Apr 1996), 12A709

Effect of short carbon fiber reinforcement on fatigue crack growth in PEEK, Composites Part A Appl Sci and Manuf 27A(7) 547-554 (1996), 12A710

Examination of methods of assessing interacting surface cracks by comparison with experimental data, Int J Pressure Vessels Piping 68(2) 181-201 (1996), 12A711

274D. Dynamic processes

Dynamic Fracture Mechanics (Comput Mech, Billerica MA, 1995) 1R16

Fracture behavior of a pipe with very sharp deep notches subjected to cyclic loading, Acta Tech CSAV 40(4) 459-476 (1995), 1A746

Generalized Miner's number and probability of fatigue failure of concrete subjected to variable cyclic loads (Japanese), Proc JSCE 510(V-28) 259-268 (Aug 1995), 2A574

Modeling the diagonal crack failure of reinforced concrete corner joints by a nonlinear FE model, Asian J Struct Eng 1(1) 83-91 (1995), 2A575

Laser-induced reverse plugging effect, Acta Mech Sinica 11(3) 239-250 (1995), 3A648

Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), Proc JSCE 522(VI-28) 77-86 (Sep 1995), 4A666

Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), J Japan Soc Precision Eng 61(11) 1569-1573 (Nov 1995), 5A569

Numerical elastoplastic model for rough contact, J Trib 117(3) 422-429 (Jul 1995), 5A585

Modeling of the opening and closure of a crack, J Vib Acoust 117(3(A)) 370-377 (Jul 1995), 5A590

Mechanics of Hertzian cracking, Trib Int 28(6) 357-362 (Sep 1995), 5A614

Finite element simulation of mode I dynamic, ductile fracture initiation, Int J Solids Struct 33(8) 1191-1207 (Mar 1996), 6A594

Statistical analysis of brittle solid damage based on network model, Int J Solids Struct 33(9) 1243-1255 (Apr 1996), 7A780

Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409 (Mat Res Soc, Pittsburgh PA, 1996) 8N15

Infrared and visual study of the mechanisms of scuffing, Trib Trans 39(2) 441-447 (Apr 1996), 8A796

Influence of elastic waves on dynamic stress intensity factors: 2D problems, Arch Appl Mech 66(5) 326-335 (Apr 1996), 10A773

Experimentally-validated damage detection theory in smart structures, J Sound Vib 191(5) 859-880 (Apr 1996), 10A884

Selection of a criterial parameter for the estimation of damageability of a mechanical system at natural oscillations, Russian Aeronaut 38(3) 75-78 (1995), 11A628

Atomistic mechanism of plastic deformation and fracture: Molecular dynamics simulation, Japan J Trib 40(6) 491-499 (1995), 12T712

274E. Fatigue characteristics of materials

Behavior of small corner cracks in a ferritic pearlitic steel: Experiments and analysis, Fatigue Fracture Eng Mat Struct 18(7-8) 861-873 (Aug 1995), 1A747

Constant and variable amplitude fatigue behavior and modeling of an SRIM polymer matrix composite, J Composite Mat 29(12) 1621-1648 (1995), 1A748

Determination of wind-induced fatigue loading on roof cladding, J Eng Mech 121(9) 956-963 (Sep 1995), 1A749

Development of a FE based strain accumulation model for the prediction of fatigue lives in highly stressed Ti components, Int J Fatigue 17(6) 385-398 (Aug 1995), 1A750

Dislocation structures near the fatigue crack tip in copper, Fatigue Fracture Eng Mat Struct 18(7-8) 847-859 (Aug 1995), 1A751

Effect of overstressing on fatigue behavior of austempered ductile iron, Fatigue Fracture Eng Mat Struct 18(6) 693-697 (Jun 1995), 1A752

Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, Fatigue Fracture Eng Mat Struct 18(6) 671-678 (Jun 1995), 1A753

Effect of stress state on the failure mechanism and fracture of austenitic steel under thermal cycling conditions, Fatigue Fracture Eng Mat Struct 18(6) 707-715 (Jun 1995), 1A754

Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, Composite Struct 31(3) 235-241 (1995), 1A755

Fatigue failure mechanisms in fiber-reinforced plastic laminated tee joints, Int J Fatigue 17(6) 415-426 (Aug 1995), 1A756

Fatigue strength and fracture mechanism of ceramic-metal joints under cyclic bending, Int J Fatigue 17(6) 427-435 (Aug 1995), 1A757

In situ SEM measurements of crack closure for small fatigue cracks in aluminum 2024-T351, Fatigue Fracture Eng Mat Struct 18(6) 717-729 (Jun 1995), 1A758

Model for thermal fatigue in an aluminium casting alloy, Int J Fatigue 17(6) 399-406 (Aug 1995), 1A759

Passivation effects on crack closure in the fatigue crack propagation of a peak-aged Al-Li-Zr alloy in NaCl and Na_2SO_4 solutions, Fatigue Fracture Eng Mat Struct 18(6) 661-670 (Jun 1995), 1A760

Tension-compression fatigue behavior of fiber-reinforced ceramic matrix composite with circular hole, Composites 26(9) 631-636 (Sep 1995), 1A761

Thermal fatigue behavior of nickel-base superalloy 263 sheets, Int J Fatigue 17(6) 407-413 (Aug 1995), 1A762

Residual strength approach to fatigue design and analysis, J Struct Eng 121(9) 1271-1279 (Sep 1995), 1A887

Mechanics of Fretting Fatigue (Kluwer, Norwell MA, 1994) 2R21

Cyclic fatigue and fracture behavior of a titanium alloy metal matrix composite, Eng Fracture Mech 52(3) 467-491 (Oct 1995), 2A576

Fatigue damage in aluminium single crystals - Part I: On the surface containing the slip Burgers vector, Acta Metall Mat 43(10) 3813-3825 (Oct 1995), 2A577

Fatigue shear strength of slender web plates, J Struct Eng 121(10) 1396-1401 (Oct 1995), 2A578

Influence of stress ratio on fatigue behavior in the transverse direction of unidirectional CFRPS, J Composite Mat 29(14) 1808-1822 (1995), 2A579

Parameter estimation for Weibull probability distribution function of initial fatigue quality, AIAA J 33(9) 1574-1581 (Sep 1995), 2A580

Statistical model of residual strength and fatigue life of composite laminates, Composites Sci Tech 54(3) 329-336 (1995), 2A581

Early Fatigue Crack Growth at Welds (Comput Mech, Billerica MA, 1995) 3R17

Distribution of rainflow range for Gaussian random processes with bimodal PSD, JSME Int J Ser A 38(4) 440-445 (Oct 1995), 3A58

Effect of grinding on fatigue behavior of ceramics at ambient temperature, JSME Int J Ser A 38(4) 610-615 (Oct 1995), 3A628

Experimental and numerical investigation of failure of alumina under plane stress, J Eng Mech 121(11) 1218-1225 (Nov 1995), 3A649

Experimental and theoretical study on numerical density evolution of short fatigue cracks, Acta Mech Sinica 11(2) 144-152 (1995), 3A650

Influence of machining defects and inclusions on the fatigue properties of a hardened spring steel, Fatigue Fracture Eng Mat Struct 18(10) 1071-1087 (Oct 1995), 3A651

Modeling solder joint fatigue life for gullwing leaded packages - Part I: Elastic plastic stress model, J Electron Packaging 117(2) 123-129 (Jun 1995), 3A652

Shear-driven high-temperature fatigue crack growth in polycrystalline alumina, Acta Metall Mat 43(11) 4179-4187 (Nov 1995), 3A653

Statistical fatigue properties of ductile cast irons (Japanese), J Soc Mat Sci Japan 44(504) 1164-1170 (Sep 1995), 3A654

Mechanisms of fretting fatigue, JSME Int J Ser A 38(4) 405-415 (Oct 1995), 3A661

Stochastic damage accumulation model for composite laminates, J Eng Mech 121(11) 1244-1251 (Nov 1995), 3A701

Energy approach to the fatigue of 60/40 solder - Part I: Influence of temperature and cycle frequency, J Electron Packaging 117(2) 130-135 (Jun 1995), 3A1178

Fatigue and Fracture at Elevated Temperatures, AD-Vol 50 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N15

Structural Integrity in Aging Aircraft, AD-Vol 47 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N20

Compression-compression fatigue of 3D woven composites, Acta Metall Mat 43(12) 4235-4245 (Dec 1995), 4A667

Cyclic fatigue crack growth and fracture in knitted randomly oriented short-fiber composite, Eng Fracture Mech 52(6) 1151-1163 (Dec 1995), 4A668

Effects of stress ratio on fatigue life of carbon-carbon composites, Theor Appl Fracture Mech 24(1) 21-31 (Dec 1995), 4A669

Fatigue crack initiation and propagation on shot-peened surfaces in A316 stainless steel, Int J Fatigue 17(7) 493-499 (Oct 1995), 4A670

Fatigue cracking of type 304 sheet in pasteurizer water, Int J Fatigue 17(7) 463-470 (Oct 1995), 4A671

Microscopic fatigue damage progress in CFRP cross-ply laminates, Composites 26(12) 859-867 (Dec 1995), 4A672

Near threshold fatigue behavior of flake graphite cast irons microstructures, Theor Appl Fracture Mech 24(1) 65-78 (Dec 1995), 4A673

Ultrasonic evaluation of fatigue damage in metal matrix composites, Mech Mat 21(4) 251-263 (Nov 1995), 4A779

Compressive fatigue of a plasma sprayed ZrO_2-8 wt% Y_2O_3 and ZrO_2-10 wt% NiCrAlCoY TTBC, J Eng Mat Tech 117(3) 305-310 (Jul 1995), 5A591

Effect of grain size on fatigue crack growth in an aluminum magnesium alloy, Fatigue Fracture Eng Mat Struct 18(11) 1355-1366 (Nov 1995), 5A592

Expressions of fatigue life of ceramics with given survivability, Eng Fracture Mech 53(1) 49-55 (Jan 1996), 5A593

Fatigue crack tip opening behavior in particulate reinforced Al-alloy composites, Acta Mat 44(1) 79-91 (Jan 1996), 5A594

Fatigue of cellular materials, Acta Mat 44(1) 289-296 (Jan 1996), 5A595

Influence of crystal orientation on the high temperature fatigue crack growth of a Ni-based single crystal superalloy, Acta Mat 44(1) 111-126 (Jan 1996), 5A596

Nonproportional low cycle fatigue criterion for type 304 stainless steel, J Eng Mat Tech 117(3) 285-292 (Jul 1995), 5A597

Notch effect on two-level cumulative low-cycle fatigue life under different biaxial loading mode sequences, Fatigue Fracture Eng Mat Struct 18(11) 1323-1332 (Nov 1995), 5A598

Periodic tensile overloads in 2024-T3 Al-alloy, Eng Fracture Mech 53(1) 69-77 (Jan 1996), 5A599

Response of short cracks in high-strength steels to fatigue loadings - Part I: Behavior in air and freely corroding in seawater, J Offshore Mech Arctic Eng 117(3) 183-191 (Aug 1995), 5A600

Response of short cracks in high-strength steels to fatigue loadings - Part II: Behavior in seawater under cathodic polarization, J Offshore Mech Arctic Eng 117(3) 192-199 (Aug 1995), 5A601

Time-dependent fatigue crack growth in titanium metal matrix composites, Fatigue Fracture Eng Mat Struct 18(11) 1249-1262 (Nov 1995), 5A602

Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), Proc JSCE 525(I-33) 97-108 (Oct 1995), 5A688

Composite Materials: Fatigue and Fracture, Fifth Volume (ASTM, 1995) 6N21

Application of modern aluminum alloys to aircraft, Prog Aerospace Sci 32(2-3) 131-172 (1996), 6A601

Continuous and discontinuous failure modes, J Eng Mech 122(1) 80-82 (Jan 1996), 6A602

Crack growth morphology and microstructural changes in 316 stainless steel under creep-fatigue cycling, Fatigue Fracture Eng Mat Struct 18(12) 1407-1421 (Dec 1995), 6A603

Effect of grain size on the fatigue of commercially pure aluminum, Fatigue Fracture Eng Mat Struct 18(12) 1455-1467 (Dec 1995), 6A604

Fatigue behavior of polymer composite sandwich beams, J Composite Mat 29(18) 2423-2445 (1995), 6A605

Microstructural effects on small fatigue crack initiation and growth in Ti6A14V alloys, Fatigue Fracture Eng Mat Struct 18(12) 1483-1497 (Dec 1995), 6A606

Predicting fatigue life in commercially pure aluminum using a short crack growth model, Fatigue Fracture Eng Mat Struct 18(12) 1469-1481 (Dec 1995), 6A607

Short crack coalescence and growth in 316 stainless steel subjected to cyclic and time dependent deformation, Fatigue Fracture Eng Mat Struct 18(12) 1423-1441 (Dec 1995), 6A608

Decay of residual stress in stochastic fatigue, J Struct Eng 122(1) 92-98 (Jan 1996), 6A628

Fatigue-strength of prestressed composite steel-concrete beams, J Struct Eng 121(12) 1850-1856 (Dec 1995), 6A757

Cyclic Fatigue in Ceramics - Current Japanese Materials Research, Vol 14 (Elsevier Sci, New York, 1995) 7N14

Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, J Mat Processing Tech 55(3-4) 171-177 (Dec 1995), 7A781

Creep-fatigue crack growth behavior of 304 stainless steel at 650°C, Theor Appl Fracture Mech 24(2) 181-188 (Jan 1996), 7A782

Dislocation pile-up model of fatigue thresholds for 2024- and 7075-alike aluminium alloys, Theor Appl Fracture Mech 24(2) 165-179 (Jan 1996), 7A783

Effect of soft tap water chemistry on fatigue crack growth of steel, Eng Fracture Mech 53(3) 387-398 (Feb 1996), 7A784

Estimating limiting state under asymmetrical load and complex stressed state, Prikl Mekh (Appl Mech) 31(2) 67-79 (1995), 7A785

Fatigue crack growth rate prediction deparing from Coffin-Manson Concepts (Spanish), J Brazilian Soc Mech Sci 17(3) 292-303 (1995), 7A786

Fatigue failure maps of heterogeneous materials, Mech Mat 22(1) 11-21 (Jan 1996), 7A787

Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, JSME Int J Ser A 39(1) 34-41 (Jan 1996), 7A788

New guidelines for fatigue design of HSS connections, J Struct Eng 122(2) 125-132 (Feb 1996), 7A926

Very low cycle failure process of steel angle members, J Struct Eng 122(2) 133-141 (Feb 1996), 7A929

Effects of thermomechanical treatments on low cycle fatigue properties of Ti-3Al-8V-6Cr-4Mo-4Zr alloy, J Mat Processing Manuf Sci 4(1) 45-54 (Jul 1995), 7A1292

Comparison of short and long fatigue crack growth in steel, Int J Fatigue 18(1) 17-23 (Jan 1996), 8A580

Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), J Dalian Univ Tech 35(2) 222-226 (Apr 1995), 8A581

Fatigue degradation and life prediction of glass fabric polymer composite under tension-torsion biaxial loadings, J Reinforced Plastics Composites 15(2) 183-195 (Feb 1996), 8A582

Fatigue life prediction of fiber-reinforced titanium matrix composites, Acta Mat 44(3) 1097-1108 (Mar 1996), 8A583

Fatigue of composite materials under aircraft service loading, Proc Inst Mech Eng J Aerospace Eng 210(G1) 101-107 (1996), 8A584

Influence of loading levels, temperature, and environment on fiber failure during the fatigue of an SiC fiber-reinforced Ti-MMC, Int J Fatigue 18(1) 1-8 (Jan 1996), 8A585

Influence of mode of initiation on the growth of small surface cracks in titanium aluminides, Int J Fatigue 18(1) 9-16 (Jan 1996), 8A586

Study of fatigue damage and fatigue life of composite laminates, J Composite Mat 30(1) 123-137 (1996), 8A587

Influence of two-stage loading on the longitudinal splitting of unidirectional carbon-epoxy laminates, Fatigue Fracture Eng Mat Struct 19(1) 65-74 (1996), 8A650

Introduction to Fatigue in Metals and Composites (Chapman and Hall, New York, 1996) 9R11

Analysis of relationships between plasma nitriding time, thickness of the cases produced, and fatigue strength of steels (Polish), Arch Naukio Mat 16(1) 39-62 (1995), 9T747

Analysis on the use of DCB specimens in fatigue crack growth testing, J Mech Behavior Mat 6(2) 147-163 (1996), 9A748

Cyclic stress response, strain resistance, and fracture behavior of modified 1070 steel, Eng Fracture Mech 53(6) 829-847 (Apr 1996), 9A749

Damage criterion of low cycle fatigue of medium carbon steel under complicated stress state (Chinese), J Dalian Univ Tech 36(2) 203-207 (Mar 1996), 9A750

Dwell sensitivity - Part I: Behavior and modeling, Mech Mat 22(2) 105-130 (Feb 1996), 9A751

Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, Composites Sci Tech 56(1) 23-29 (1996), 9A752

Effect of prior cold work on the room-temperature low-cycle fatigue behavior of AISI 304LN stainless steel, Int J Fatigue 18(2) 71-79 (Feb 1996), 9A753

Effects of beryllium on fatigue crack propagation of A357 alloys containing iron, Int J Fatigue 18(2) 137-147 (Feb 1996), 9A754

Effects of surface treatment on the bending-fatigue strength of carburized spur gears, JSME Int J Ser C 39(1) 108-114 (Mar 1996), 9A755

Fatigue analysis and testing of adhesive joints, Eng Fracture Mech 53(6) 859-872 (Apr 1996), 9A756

Fatigue life prediction of composite laminates using a stress redistribution function, J Reinforced Plastics Composites 15(3) 249-266 (Mar 1996), 9A757

Fatigue of cast aluminum alloys under constant and variable-amplitude loading, Int J Fatigue 18(2) 95-104 (Feb 1996), 9A758

Fatigue of fillet welded A515 steel, Eng Fracture Mech 53(6) 1007-1016 (Apr 1996), 9A759

Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, Int J Fatigue 18(2) 119-125 (Feb 1996), 9A760

Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, Acta Phys Polonica A 89(3) 357-363 (Mar 1996), 9A986

Comparative analysis of calculated fatigue curves of an aluminum-alloy product, carried out using various statistical theories of strength, J Machinery Manuf Reliab 6 28-31 (1995), 10A727

Constant amplitude fatigue strength and P-S_a-S_m-N camber family, Chinese J Aeronaut 9(1) 28-37 (Feb 1996), 10T728

Fatigue crack behavior in carburized and laser-hardened components made of 18HGM steel, J Theor Appl Mech 34(2) 345-354 (1996), 10A729

Fatigue crack growth behavior of PWA 1484 single crystal superalloy at elevated temperatures, J Eng Gas Turbines Power 118(2) 399-405 (Apr 1996), 10A730

Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), J Soc Mat Sci Japan 45(3) 334-339 (Mar 1996), 10A731

Low cycle fatigue stress-strain relation model of cyclic hardening or cyclic softening materials, Eng Fracture Mech 54(1) 1-9 (May 1996), 10A732

Probabilistic method for the fatigue life assessment of powder metallurgy parts of aircraft engines, J Eng Gas Turbines Power 118(2) 411-415 (Apr 1996), 10A733

Theoretical modeling of fatigue threshold for aluminum alloys, Eng Fracture Mech 54(1) 35-48 (May 1996), 10A734

Variable amplitude loading of small fatigue cracks in 6261-T6 aluminum alloy, Fatigue Fracture Eng Mat Struct 19(4) 413-426 (1996), 10A735

X-ray fractography studies on austenitic stainless steels, Eng Fracture Mech 54(1) 155-166 (May 1996), 10A736

Fatigue cracking in fiber-reinforced metal matrix composites under mechanical and thermal loads, J Eng Gas Turbines Power 118(2) 416-423 (Apr 1996), 10A794

Durability Analysis of Structural Composite Systems: Reliability, Risk Analysis, and Prediction of Safe Residual Integrity (Balkema, Rotterdam, Netherlands, 1996) 11N27

Determination of strain components in low-cycle multiaxial fatigue tests on tubes, Nucl Eng Des 162(1) 47-53 (Mar 1996), 11A629

Effect of cooling rate and stacking sequence on the fatigue behavior of notched quasi-isotropic AS4-PEEK laminates, J Composite Tech Res 18(2) 127-134 (Apr 1996), 11A630

Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, Composites Part A Appl Sci and Manuf 27A(6) 493-502 (1996), 11A631

Estimation of fatigue curves for design of composite laminates, Composites Part A Appl Sci and Manuf 27A(6) 485-491 (1996), 11A632

Interlaminar shear fatigue damage evolution of 2D carbon-carbon composites, J Composite Mat 30(7) 785-799 (1996), 11A633

Mixed mode fatigue crack thresholds from bending and cyclic torsion of a plate, Fatigue Fracture Eng Mat Struct 19(5) 551-560 (1996), 11A634

Model to predict the fatigue life of fiber-reinforced titanium matrix composites under constant amplitude loading, Fatigue Fracture Eng Mat Struct 19(5) 539-550 (1996), 11A635

Nucleation of intergranular cracks during high temperature low cycle fatigue of SUS316 stainless steel, Fatigue Fracture Eng Mat Struct 19(5) 581-587 (1996), 11A636

Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part I: Experiments, J Composite Tech Res 18(1) 15-21 (Jan 1996), 11A637

Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part II: Analysis, J Composite Tech Res 18(1) 22-29 (Jan 1996), 11A638

Fracture and fatigue crack growth behavior of SiC_w/2124Al composites, J Composite Tech Res 18(1) 30-37 (Jan 1996), 11A681

Development of a fatigue failure model for the adhesively bonded tubular single lap joint under dynamic torsional loading, J Adhesion 56(1-4) 157-169 (1996), 11A844

Internal resonances of a cracked rotor: Major critical speed and critical speeds in precritical range, JSME Int J Ser C 39(2) 225-233 (Jun 1996), 12A205

Effects of matrix resin and fiber content on behavior of fatigue crack propagation in continuous-fiber-mat reinforced CP-resin composites (Japanese), J Soc Mat Sci Japan 45(5) 490-495 (May 1996), 12A713

Energy approach to the fatigue of 60-40 solder - Part II: Influence of hold time and asymmetric loading, J Electron Packaging 118(2) 67-71 (Jun 1996), 12T714

Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler, J Biomech 29(8) 989-1002 (Aug 1996), 12A715

Experimental technique for studying mixed-mode fatigue crack growth in solder joints, J Electron Packaging 118(2) 45-48 (Jun 1996), 12A716

274F. Stress or strain life analysis of fatigue

Fatigue and Crack Growth: Environmental Effects, Modeling Studies, and Design Considerations - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N28

Fatigue assessment of through plate girder railway bridges, J Struct Eng 121(11) 1613-1619 (Nov 1995), 3A655

Prediction of fatigue life based on level crossings and a state variable, Fatigue Fracture Eng Mat Struct 18(10) 1089-1100 (Oct 1995), 3A656

Recent Advances in Solids and Structures, PVP-Vol 321-NE-Vol 18 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N19

B31.3 Appendix X rules for expansion joints, J Pressure Vessel Tech 117(3) 283-288 (Aug 1995), 5A603

Residual shear strength of fatigue cracked slender web panels, Thin-Walled Struct 24(2) 157-172 (1996), 5A604

Characterization of dynamic fatigue life by the uniaxial tensile test, J Mat Processing Tech 54(1-4) 365-371 (Oct 1995), 6A609

Failure analysis and design modification of a briquetting machine roller, Eng Failure Anal 2(4) 287-295 (Dec 1995), 6A610

Fatigue life estimation under random loading with respect to inhomogeneity of the mechanical properties of the material, J Czech Slovak Mech Eng 3(2) 170-176 (Jun 1993), 6A611

Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, Eng Fracture Mech 53(2) 251-262 (Jan 1996), 6A612

Note on the effect of the mean stress in a new fatigue theory, J Mat Processing Tech 54(1-4) 362-264 (Oct 1995), 6A613

Hysteretic modeling of tubular members and offshore platforms, Eng Struct 18(2) 93-101 (Feb 1996), 6A775

Analytical model of fatigue crack growth retardation due to overloading, Int J Solids Struct 33(9) 1229-1242 (Apr 1996), 7A856

Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), J Dalian Univ Tech 35(1) 74-77 (Feb 1995), 8A588

Effects of surface treatments on the fatigue of notched bend specimens, Fatigue Fracture Eng Mat Struct 19(1) 111-117 (1996), 8A589

Fatigue life simulation and estimation of an autofrettaged thick-walled pressure vessel with an external groove, Int J Fatigue 18(1) 49-56 (Jan 1996), 8A590

Damage criterion of low cycle fatigue of medium carbon steel under complicated stress state (Chinese), J Dalian Univ Tech 36(2) 203-207 (Mar 1996), 9A750

Bayesian analysis of fatigue life distribution including censored data (Japanese), J Soc Mat Sci Japan 45(2) 157-162 (Feb 1996), 9A761

Failure analysis and life prediction of a large, complex plate fin heat exchanger, Eng Failure Anal 3(1) 29-43 (Mar 1996), 9A762

New approach to the prediction of fatigue notch reduction factor K_f, Int J Fatigue 18(2) 105-109 (Feb 1996), 9A763

Prediction of fatigue behavior in stress-concentrators of arbitrary geometry, Eng Fracture Mech 53(6) 929-939 (Apr 1996), 9A764

Monte-Carlo simulations of the time-dependent failure of bundles of parallel fibers, Eur J Mech A 15(2) 243-266 (1996), 10A164

Comparative analysis of calculated fatigue curves of an aluminum-alloy product, carried out using various statistical theories of strength, J Machinery Manuf Reliab 6 28-31 (1995), 10A727

Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, Int J Pressure Vessels Piping 67(3) 229-242 (1996), 10A737

Fatigue damage calculation for cyclic and random loading with nonzero mean value, TsAGI 1(3) 146-158 (1994), 10T738

Prediction of notch fatigue limits in a compressive residual stress field, Eng Fracture Mech 54(2) 171-176 (May 1996), 10A739

Significance of crack tip deformation for short and long fatigue cracks, Fatigue Fracture Eng Mat Struct 19(4) 475-484 (1996), 10A740

Method for predicting service load from the width and height of striation (Japanese), J Soc Mat Sci Japan 45(3) 340-345 (Mar 1996), 10A743

Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, TsAGI 1(2) 144-149 (1994), 10T1195

Analytical model for fatigue life prediction based on fracture mechanics and crack closure, J Construct Steel Res 37(3) 229-261 (1996), 11A639

Design of Lifetime Prediction System of reformer tubes (Chinese), J Dalian Univ Tech 36(3) 293-296 (May 1996), 11A640

Fatigue strength of drilled holes under membrane and plate-bending stresses (Japanese), Proc JSCE 537(1-35) 327-338 (Apr 1996), 11A641

Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), Proc JSCE 537(1-35) 155-166 (Apr 1996), 11A642

Proposal of fatigue life evaluation method for steel structural details under variable amplitude stresses (Japanese), Proc JSCE 537(1-35) 107-117 (Apr 1996), 11A643

Numerical studies of fatigue induced by breathing of slender web plates, Thin-Walled Struct 25(4) 319-333 (1996), 11A774

Fatigue behavior on split tee flange joints (Japanese), Proc JSCE 537(1-35) 133-144 (Apr 1996), 11A831

Fatigue life prediction of CFRP using evolution of creep property (Japanese), J Soc Mat Sci Japan 45(5) 502-506 (May 1996), 12A535

Development of an on-board fatigue processor for helicopters, Int J Fatigue 18(3) 179-189 (Apr 1996), 12A717

Review of fatigue strength assessment of nonwelded and welded structures based on local parameters, Int J Fatigue 18(3) 153-170 (Apr 1996), 12A718

274G. Other aspects of fatigue

Effect of re-coldworking on fatigue life enhancement of a fastener hole, Fatigue Fracture Eng Mat Struct 18(7-8) 765-775 (Aug 1995), 1A763

Mean stress effects in multiaxial fatigue, Fatigue Fracture Eng Mat Struct 18(7-8) 755-764 (Aug 1995), 1A764

Microstructural effects on the small fatigue crack behavior of an aluminum alloy plate, Fatigue Fracture Eng Mat Struct 18(7-8) 801-809 (Aug 1995), 1A765

New approach to fatigue threshold, Fatigue Fracture Eng Mat Struct 18(7-8) 833-845 (Aug 1995), 1A766

NDE of fatigue changes of composite structure by laser ultrasonic method (Russian), Mech of Composite Mat T31(3) 405-410 (Jun 1995), 1A854

Criterion for mixed mode stable crack growth - I: Three point bend geometry, Eng Fracture Mech 52(2) 321-347 (Sep 1995), 2A582

Criterion for mixed mode stable crack growth - II: Compact tension geometry with and without stiffener, Eng Fracture Mech 52(2) 349-378 (Sep 1995), 2A583

Effect of mean stress on the fatigue limit of high tensile bolts, Proc Inst Mech Eng C 209(C4) 257-262 (1995), 2A584

Fatigue crack closure measurements on 2024-T3 sheet specimens, Fatigue Fracture Eng Mat Struct 18(9) 917-921 (Sep 1995), 2A585

Fatigue crack growth studies under combination of single overload and cyclic condensation environment, Eng Fracture Mech 52(2) 295-319 (Sep 1995), 2A586

Interactive effect of multiple crack growth on fatigue, Theor Appl Fracture Mech 23(3) 219-233 (Sep 1995), 2A587

Environmental Stress Screening: Its Quantification, Optimization, and Management (Prentice Hall, Upper Saddle River, NJ, 1995) 3N23

Procedure for analysis of leak before break in pipes subjected to fatigue or IGSCC accounting for complex crack shapes, Fatigue Fracture Eng Mat Struct 18(10) 1173-1188 (Oct 1995), 3A657

Fatigue life model for general rolling contact with application to wheel-rail damage, Fatigue Fracture Eng Mat Struct 18(10) 1189-1199 (Oct 1995), 3A832

Effects of seawater absorption on fatigue crack development in carbon-epoxy EDT specimens, Composites 26(12) 869-876 (Dec 1995), 4A674

Estimation of loads causing fatigue failures in accident investigations, Eng Failure Anal 2(3) 215-226 (Sep 1995), 4A675

Fatigue and ratcheting interactions, Int J Fatigue 17(7) 507-511 (Oct 1995), 4A676

Spectrum fatigue behavior of welded joints, Int J Fatigue 17(7) 485-491 (Oct 1995), 4A677

Theoretical analysis of fatigue cracking in flexible pavements, Proc Inst Mech Eng C 209(C5) 345-361 (1995), 4A678

Nonlinear fatigue damage model for concrete in tension, Int J Damage Mech 4(4) 362-379 (Oct 1995), 4A744

Structural failures of bulk carriers, Proc Inst Mech Eng E 209(E2) 83-91 (1995), 4A826

Finite element analysis of stresses due to pitting of steel specimens under different cyclic bending stresses, Eng Fracture Mech 53(1) 141-151 (Jan 1996), 5A19

Extending the fatigue life of multi-layer metal joints, Fatigue Fracture Eng Mat Struct 18(11) 1231-1247 (Nov 1995), 5A605

Fatigue testing of metric bolts fitted with lip-type nuts, J Offshore Mech Arctic Eng 117(3) 200-204 (Aug 1995), 5A606

Phenomenological model for intergranular failure by r-type and wedge-type cavitation, J Eng Mat Tech 117(3) 311-321 (Jul 1995), 5A607

Fatigue life analyses and tests for thick-wall cylinders including effects of overstrain and axial grooves, J Pressure Vessel Tech 117(3) 222-226 (Aug 1995), 5A620

Curvilinear integral method: Computer realization and testing 1: Under non-proportional reversed axial force and torque, Int J Fatigue 17(8) 567-575 (Nov 1995), 6A614

Fatigue fracture of a weld on a weight training frame, Eng Failure Anal 2(4) 275-285 (Dec 1995), 6A615

Fatigue strength functions in shear loading of fabric conveyor belts, Int J Fatigue 17(8) 539-544 (Nov 1995), 6A616

Importance of toe irregularity for fatigue resistance of automatic welds, Int J Fatigue 17(8) 531-538 (Nov 1995), 6A617

Analysis of failure of axle housing of crane truck with fracture mechanics, Eng Failure Anal 2(4) 233-246 (Dec 1995), 6A636

Thermal fatigue failure and design modification of a steam exhaust silencer, Eng Failure Anal 2(4) 247-255 (Dec 1995), 6A1166

3rd International Colloquium: Aging of materials and methods for assessing the lifetime extension of engineering plants, Int J Pressure Vessels Piping 66(1-3) 3-415 (1996), 7A789

Qualification of diesel generator exhaust carbon steel piping to intermittent elevated temperatures, J Pressure Vessel Tech 118(1) 42-47 (Feb 1996), 7A995

Assessment of the notch stress-strain conversion rules for short flat bars with projections subjected to axial and shear loading, J Strain Anal Eng Des 31(2) 91-110 (Mar 1996), 8A591

Bridge fatigue damage evaluation and updating using non-destructive inspections, Eng Fracture Mech 53(5) 775-788 (Mar 1996), 8A592

Curvilinear integral method - Testing 2: Under nonproportional pulsating axial force and internal

pressure, Int J Fatigue 18(1) 41-48 (Jan 1996), 8A593
Fatigue load monitoring in steel bridges with Rayleigh waves, J Nondestruct Eval 14(3) 83-98 (Sep 1995), 8A696
Failure analysis of the impellers of a feed pump, Eng Failure Anal 3(1) 45-52 (Mar 1996), 9A765
Fatigue failure of a connecting rod, Eng Failure Anal 3(1) 13-28 (Mar 1996), 9A766
Proceedings of a conference on cumulative damage under variable amplitude loading held at SIRIUS, April 3-7, 1995, Fatigue Fracture Eng Mat Struct 19(2-3) 141-385 (1996), 9A767
Constant amplitude fatigue strength and P-S_a-S_m-N camber family, Chinese J Aeronaut 9(1) 28-37 (Feb 1996), 10T728
Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), J Soc Mat Sci Japan 45(3) 334-339 (Mar 1996), 10A731
Analysis of the fatigue failure of tee pieces forming part of a header in a descaling system in a hot strip rolling mill, Int J Pressure Vessels Piping 68(1) 121-126 (1996), 10A741
History of fatigue, Eng Fracture Mech 54(2) 263-300 (May 1996), 10A742
Method for predicting service load from the width and height of striation (Japanese), J Soc Mat Sci Japan 45(3) 340-345 (Mar 1996), 10A743
Stress intensity factors for cracks in conventional S-N fatigue specimens, J Pressure Vessel Tech 118(2) 203-207 (May 1996), 10A776
Effect of rest time after application of single overload cycle on fatigue life, Eng Fracture Mech 54(1) 147-153 (May 1996), 10A782
Predicting fatigue loads using regression diagnostics, J Am Helicopter Soc 41(2) 58-73 (Apr 1996), 10A887
Plastic deformation and fatigue under multiaxial loading, Nucl Eng Des 162(1) 75-84 (Mar 1996), 11A456
Further observations of early fatigue crack development, Fatigue Fracture Eng Mat Struct 19(5) 623-627 (1996), 11A644
Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), Proc JSCE 537(I-35) 119-131 (Apr 1996), 11A779
Evaluation of fatigue and wear characteristics of M50 steel using MIL-L-7808K, Int J Fatigue 18(3) 191-196 (Apr 1996), 12A924

274H. Corrosion and embrittlement

Application of x-ray techniques to studies of corrosion and protection - Part I: Review and literature survey, Arab J Sci Eng 20(2) 315-324 (Apr 1995), 2A588
Application of x-ray techniques to studies of corrosion and protection - Part II: Experimental x-ray diffraction measurements, Arab J Sci Eng 20(2) 325-341 (Apr 1995), 2A589
Corrosion and corrosion fatigue resistance of a modified aluminum-magnesium alloy in Arabian Gulf seawater environment, Arab J Sci Eng 20(2) 369-382 (Apr 1995), 2A590
Corrosion measurements on reinforcement in silica fume concrete, Arab J Sci Eng 20(2) 259-267 (Apr 1995), 2A591
Effect of mix proportions on corrosion of Swedish Iron in ordinary Portland cement mortars at elevated temperatures, Arab J Sci Eng 20(2) 269-278 (Apr 1995), 2A592
Effect of temperature and chloride content on corrosion potential of iron in chloride contaminated mortars, Arab J Sci Eng 20(2) 279-288 (Apr 1995), 2A593
Influence of some parameters relevant to the Arabain Gulf environment on corrosion of reinforcing steel in concrete, Arab J Sci Eng 20(2) 239-257 (Apr 1995), 2A594
Reduction of chloride level in reforced concrete by cathodic polarization technique, Arab J Sci Eng 20(2) 289-296 (Apr 1995), 2A595
Role of chromium or cobalt alloying of plain steels (low residual) on their corrosion behavior in hydrochloric acids, Arab J Sci Eng 20(2) 297-314 (Apr 1995), 2A596
International journal on the science and technology of friction, lubrication and wear, Wear 186-187(II) 341-578 (Aug 1995), 2A597
International journal on the science and technology of friction, lubrication and wear, Wear 186-187(1) 1-339 (Jul 1995), 2A598
Inverse analysis of galvanic corrosion using fuzzy a priori information, JSME Int J Ser A 38(4) 541-546 (Oct 1995), 3A18
Thermodynamic analysis on the role of hydrogen in anodic stress corrosion cracking, Acta Metall Mat 43(11) 4001-4006 (Nov 1995), 3A658
Erosion-corrosion of coatings by biomass-fired boiler fly ash, Wear 188(1-2) 40-48 (Sep 1995), 3A660
Structural Integrity in Aging Aircraft, AD-Vol 47 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N20
Initiation and growth characteristics of corrosion pits in steels (Japanese), J Soc Mat Sci Japan 44(505) 1215-1223 (Oct 1995), 4T679
Service embrittlement trends in large CrMoV steel steam turbine bolts, Theor Appl Fracture Mech 24(1) 79-92 (Dec 1995), 4A680
Influence of environmental variables on erosion-corrosion of carbon steel in spent liquor reheaters in Bayer plant, Wear 189(1-2) 107-116 (Oct 1995), 4A683
Corrosion fatigue of AZ91E-T6 cast magnesium alloy in a 3.5 percent NaCl aqueous environment, J Eng Mat Tech 117(3) 293-298 (Jul 1995), 5A608
Fatigue-crack-growth-based analysis of two-step corrosion fatigue tests, Fatigue Fracture Eng Mat Struct 18(11) 1311-1321 (Nov 1995), 5A609
Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), J Soc Mat Sci Japan 44(506) 1332-1337 (Nov 1995), 6A618
Corrosion resistance and rust structure of weathering steels and iron antiquities (Japanese), J Soc Mat Sci Japan 44(506) 1314-1319 (Nov 1995), 6A619
Corrosion resistible coating with combination of ion plating and heat treatment for molten carbonate fuel cell separator, J Soc Mat Sci Japan 44(506) 1320-1325 (Nov 1995), 6A620
Embrittlement of a steam turbine rotor, Eng Failure Anal 2(4) 297-305 (Dec 1995), 6A621
Fractal characteristics of stress corrosion cracking in SNCM 439 steel having different prior-austenite grain sizes, Eng Fracture Mech 53(2) 279-288 (Jan 1996), 6A622
Problems from the view point of corrosion control on troubles caused by localized corrosion (Japanese), J Soc Mat Sci Japan 44(506) 1308-1313 (Nov 1995), 6A623
Study of the effect of corrosive media on the long-term stability of reinforced plates, Prikl Mekh (Appl Mech) 31(2) 55-62 (1995), 7A674
Analysis of work-of-fracture method for measuring fracture energy of concrete, J Eng Mech 122(2) 138-144 (Feb 1996), 7A790
Corrosion of glass-lined water heaters in sea coastal environment, Arab J Sci Eng 20(4A) 591-607 (Oct 1995), 7A791
Behavior of longitudinally aligned corrosion pits, Int J Pressure Vessels Piping 67(1) 17-35 (1996), 8A594
NDE of corrosion damage using electrostatic measurements, J Nondestruct Eval 14(3) 127-136 (Sep 1995), 8A702
Failure analysis of a gas turbine from a generating set, Eng Failure Anal 3(1) 1-11 (Mar 1996), 9A768
Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, Mat Struct 29(186) 97-104 (Mar 1996), 9A769
What does the pitting resistance equivalent really tell us?, Eng Failure Anal 3(1) 65-69 (Mar 1996), 9A770
Appreciation of experimental methods usefulness to analyzing metals embrittlement phenomeny, Arch Naukio Mat 16(3) 217-244 (1995), 9A775
Influence of the chemical composition of steel on railway rails, in particular on their hydrogen embrittlement, and their susceptibility to delayed cracking (Polish), Arch Naukio Mat 16(3) 199-215 (1995), 9A782
Rate-sensitive micromechanical damage model for brittle solid, J Eng Mech 122(5) 412-422 (May 1996), 10A581
Hydrogen embrittlement characterization by disk pressure tests: Test analysis and application to high chromium martensitic steels, J Eng Mat Tech 118(2) 179-185 (Apr 1996), 10A744
Hydrogen embrittlement of mild steel charged cathodically with hydrogen: Effect of dissolved hydrogen and hydrogen damage on elongation of mild steel, JSME Int J Ser A 39(2) 246-251 (Apr 1996), 10A745
Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, Int J Pressure Vessels Piping 68(1) 23-37 (1996), 10A746
Tensile failure of stainless-steel notched bars under hydrogen charging, J Eng Mat Tech 118(2) 186-191 (Apr 1996), 10A747
Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, Int J Pressure Vessels Piping 68(1) 99-111 (1996), 10A1334
Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, Int J Pressure Vessels Piping 68(1) 113-120 (1996), 10A1335
Investigation of the corrosive wear of stainless steels in aqueous slurries, Wear 193(1) 73-77 (Apr 1996), 11A645
Overload effects in environmental hydrogen induced fracture, Fatigue Fracture Eng Mat Struct 19(5) 629-633 (1996), 11A646
Study on correlativity for paint film deterioration of steel bridge with corrosion under paint films (Japanese), Proc JSCE 537(I-35) 167-181 (Apr 1996), 11A647
Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, Mat Struct 29(189) 286-294 (Jun 1996), 11A712
Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, J Offshore Mech Arctic Eng 118(2) 165-168 (May 1996), 11A834
Studies of IGA intergranular attack-stress corrosion cracking related parameters and remedies, Nucl Eng Des 162(2-3) 167-174 (Apr 1996), 11A1420
Method for imaging corrosion damage in thin plates from electrostatic data, Inverse Prob 12(3) 279-293 (Jun 1996), 12A719

274I. Fretting, wear, and erosion

Statistical character of the failure of multiphase materials due to high pressure water jet impingement, Int J Fracture 71(1) 1-14 (1995), 1A767
International journal on the science and technology of friction, lubrication and wear, Wear 186-187(II) 341-578 (Aug 1995), 2A597
International journal on the science and technology of friction, lubrication and wear, Wear 186-187(1) 1-339 (Jul 1995), 2A598
Effect of erosional wear on strength and residual stress during shaping of ceramic multilayer capacitors, Wear 188(1-2) 142-149 (Sep 1995), 3A659
Erosion-corrosion of coatings by biomass-fired boiler fly ash, Wear 188(1-2) 40-48 (Sep 1995), 3A660
Mechanisms of fretting fatigue, JSME Int J Ser A 38(4) 405-415 (Oct 1995), 3A661
Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, Wear 188(1-2) 130-137 (Sep 1995), 3A662
Subsurface deformation of steel by solid particle impact investigated by ion beam slope cutting and scanning electron microscopy, Wear 188(1-2) 108-114 (Sep 1995), 3A663
Cavitation erosion of flame spray weld coosting of nickel-based alloy powder, Wear 189(1-2) 20-24 (Oct 1995), 4A681
Effect of lubricant in electrical conductor fretting fatigue, Wear 189(1-2) 51-57 (Oct 1995), 4A682
Influence of environmental variables on erosion-corrosion of carbon steel in spent liquor reheaters in Bayer plant, Wear 189(1-2) 107-116 (Oct 1995), 4A683
Influence of nozzle length on the divergence of the erodent particle stream in a gas-blast erosion rig, Wear 189(1-2) 66-69 (Oct 1995), 4A684
Microstructural influence in slurry erosion of ceramics, Wear 189(1-2) 122-135 (Oct 1995), 4A685
Wear of cross-linked polyethylene against itself, J Eng Med 210(H1) 11-16 (1996), 9T771
Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, Wear 192(1-2) 11-20 (Mar 1996), 10A748
Fretting fatigue in elastic contacts due to tangential micro-motion, Trib Int 29(4) 265-273 (Jun 1996), 10A749
Evaluation of metallic coatings for erosive wear resistance in die casting applications, Wear 192(1-2) 49-55 (Mar 1996), 10A994
Fretting wear of mechanically alloyed Al-Fe and Al-Fe-Mn alloys, Wear 193(1) 78-90 (Apr 1996), 11A648
Research on reducing erosion by adding ribs on the wall in particulate two-phase flows, Wear 193(1) 1-7 (Apr 1996), 11A649
Role of particle properties in the erosion of brittle materials, Wear 193(1) 105-113 (Apr 1996), 11A650
Erosion model of polycrystalline ceramics in abrasive waterjet cutting, Wear 193(2) 207-217 (May 1996), 12A720
Erosion of steel surfaces by grit-blasting as a preparation for plasma spraying, Wear 194(1-2) 95-102 (Jun 1996), 12A721
Spark erosion behavior of silver-based particulate composites, Wear 195(1-2) 133-147 (Jul 1996), 12A722
Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, Wear 195(1-2) 21-34 (Jul 1996), 12A723
Evaluation of wear of turning carbide inserts using neural networks, Int J Machine Tools Manuf 36(7) 789-797 (Jul 1996), 12A904

274J. Creep

Renewal theory of inelasticity, Mech Mat 21(2) 99-117 (Aug 1995), 1A497
Closed-form solution for the isothermal creep rupture behavior of a two-bar structure under constant load, Int J Solids Struct 32(21) 3087-3104 (Nov 1995), 1A768
Creep modeling of rock salts for geoenvironmental application, J Energy Resources Tech 117(2) 108-114 (Jun 1995), 1A769
Mesh-dependence in local approach to creep fracture, Int J Damage Mech 4(3) 230-250 (Jul 1995), 1A770
Nonhomogeneous bars optimal with respect to ductile creep rupture, Eng Optim 25(1) 13-27 (Aug 1995), 2A727
Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, JSME Int J Ser A 38(4) 581-587 (Oct 1995), 3A664
Creep crack growth prediction of solder joints during temperature cycling: An engineering approach, J Electron Packaging 117(2) 116-122 (Jun 1995), 3A665
Effect of composition on basic creep of concrete and cement paste, J Eng Mech 121(11) 1261-1270 (Nov 1995), 3A666
Generalized criterion of plastic instabilities and its application to creep damage and superplastic flow, Acta Metall Mat 43(11) 4093-4100 (Nov 1995), 3A667
Air-environment-creep interaction in a nickel base superalloy, Eng Failure Anal 2(3) 191-196 (Sep 1995), 4A686
Effects of heat treatment on the creep crack growth of alloy 800H possessing long service history, Eng Failure Anal 2(3) 209-214 (Sep 1995), 4A687
Modeling the creep of a pipe weld using Cosserat theory, J Eng Math 29(6) 517-535 (Nov 1995), 4A688
Damage-coupled creep mechanics and its structural analysis principle, J Appl Mech 62(3) 640-645 (Sep 1995), 5A610
Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, J Pressure Vessel Tech 117(3) 227-237 (Aug 1995), 5A611
Identification of high-temperature mechanical properties of metals in designing technological equipment, J Machinery Manuf Reliab 2 63-67 (1995), 5T612
Evaluation of physical aging on creep deformation of epoxy resin (Japanese), J Soc Mat Sci Japan 44(506) 1367-1371 (Nov 1995), 6A624
Estimating time of viscous failure under creep, Prikl Mekh (Appl Mech) 30(11) 75-84 (1994), 7A792
Fracture of reinforced thermoplastics, J Mat Processing Tech 55(3-4) 229-233 (Dec 1995), 7A793
Physical meaning of creep damage parameters evaluated from distribution of grain boundary cavities on cross-section (Japanese), J Soc Mat Sci Japan 45(1) 110-117 (Jan 1996), 7A794
Predictions of creep failure in aeroengine materials under multi-axial stress states, Int J Mech Sci 38(4) 385-403 (Apr 1996), 7A795
Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), J Soc Mat Sci Japan 44(507) 1417-1422 (Dec 1995), 7A796
Case studies on the elastic-plastic creep in the metallic matrix of fiber-reinforced composite materials, Arch Appl Mech 66(3) 159-167 (Jan 1996), 8A451
Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), J Dalian Univ Tech 35(1) 74-77 (Feb 1995), 8A588
Characterization of creep-fatigue crack growth behavior in 2.25 Cr-1 Mo steel using $(C_t)_{avg}$, Int J Fracture 73(4) 273-286 (1995), 8A595
Model formulations for numerical creep calculations for concrete, J Struct Eng 122(3) 284-290 (Mar 1996), 8A596
Probabilistic creep analysis of underground structures in salt, J Eng Mech 122(3) 209-217 (Mar 1996), 8A597
Dwell sensitivity - Part I: Behavior and modeling, Mech Mat 22(2) 105-130 (Feb 1996), 9A751
Micro and macromechanical aspects of the behavior of concrete materials with special emphasis on energy dissipation and on cyclic creep, J Mech Behavior Mat 6(2) 119-134 (1996), 9A772
Short-term creep of a zirconium alloy in the case of a complex stressed-strained state, J Machinery Manuf Reliab 5 36-39 (1995), 9T773
Algebraic methods for creep analysis of continuous composite beams, J Struct Eng 122(4) 423-430 (Apr 1996), 10A750
Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steels - Part I: Estimation of crack tip parameters, Fatigue Fracture Eng Mat Struct 19(4) 387-399 (1996), 10A751
Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steel - Part II: Crack growth behavior and models, Fatigue Fracture Eng Mat Struct 19(4) 401-411 (1996), 10A752
Hardening interaction in cyclic creep of a type 316 stainless steel at 20°C and 500°C, Fatigue Fracture Eng Mat Struct 19(4) 515-521 (1996), 10A753
Effective modulus methods in 2D creep damage problems and FE analysis (Chinese), J Comput Struct Mech Appl 13(2) 217-225 (May 1996), 11T19
Creep, damage and failure around large rectangular-like caverns and galleries, Mech Cohesive-Frictional Mat 1(2) 165-197 (Apr 1996), 11A651
Creep-fatigue damage assessment by subsequent fatigue straining, Nucl Eng Des 162(1) 97-106 (Mar 1996), 11A652
Study on metallographic damage parameter in creep-damage-dominant condition under creep-fatigue

loading, Nucl Eng Des 162(1) 85-95 (Mar 1996), 11A653
Shear properties of components used in stressed-skin panels, J Mat in Civil Eng 8(2) 77-82 (May 1996), 11A701
Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), J Soc Mat Sci Japan 45(5) 552-558 (May 1996), 12A519
Estimating method for creep property of carbon fiber reinforced polyamide by enhancing stepwise temperature (Japanese), J Soc Mat Sci Japan 45(5) 507-510 (May 1996), 12A534
Fatigue life prediction of CFRP using evolution of creep property (Japanese), J Soc Mat Sci Japan 45(5) 502-506 (May 1996), 12A535
Finite element analysis on creep damage, Comput Struct 60(5) 781-786 (Jul 1996), 12A724
Strain localization in creep testing of samples with heterogeneous microstructures, Int J Pressure Vessels Piping 68(2) 135-143 (1996), 12A725
Micromechanics of intergranular creep failure under cyclic loading, Acta Mat 44(7) 2697-2710 (Jul 1996), 12A768

274K. Ablation, spallation, delamination

Mechanical failure of thin brittle coatings, Eng Failure Anal 2(2) 85-103 (Jun 1995), 2A599
Residual stress-driven delamination in deposited multi-layers, Int J Solids Struct 33(1) 65-78 (Jan 1996), 2A600
Cracking and spalling of multilayered chromium coatings, Acta Metall Mat 43(11) 3991-4000 (Nov 1995), 3A668
Identifying delamination in composite beams using built-in piezoelectrics - Part I: Experiments and analysis, J Intelligent Mat Syst Struct 6(5) 649-663 (Sep 1995), 3A669
Identifying delamination in composite beams using built-in piezoelectrics - Part II: An identification method, J Intelligent Mat Syst Struct 6(5) 664-672 (Sep 1995), 3A670
Application of electric potential method to smart composite structures for detecting delamination, JSME Int J Ser A 38(4) 524-530 (Oct 1995), 3A736
Influence of water on mechanical properties and fracture mechanism of FRP-aramid honeycomb core sandwich material (Japanese), J Soc Mat Sci Japan 44(505) 1273-1278 (Oct 1995), 4A487
Anisotropic modeling and numerical simulation of brittle damage in concrete, Int J Numer Methods Eng 38(21) 3611-3633 (Nov 1995), 4A689
Delamination model for laminated composites, Int J Solids Struct 33(4) 483-509 (Feb 1996), 4A690
Finite element analysis of configurational stability and finite growth of buckling driven delamination, J Mech Phys Solids 43(12) 1983-2021 (Dec 1995), 4A691
Spall damage to concrete walls from close-in cased and uncased explosions in air, ACI Struct J 92(6) 680-688 (Dec 1995), 5A613
Efficient modeling of postbuckling delamination growth in composite laminates using plate elements, AIAA J 34(1) 178-184 (Jan 1996), 6A625
Effect of oxide layers on behaviors of particle impact damage of silicon carbide (Japanese), J Soc Mat Sci Japan 44(507) 1439-1444 (Dec 1995), 7A258
Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), J Soc Mat Sci Japan 44(507) 1433-1438 (Dec 1995), 7A554
Circular brass foil failed by plugging opposite to direction of incident laser beam, Theor Appl Fracture Mech 24(2) 135-138 (Jan 1996), 7A797
Model of whole-life flexible pavement performance, Proc Inst Mech Eng C 209(C6) 389-407 (1995), 7A798
Nonlinear thermal buckling for composite laminate with elliptical delamination (Chinese), J Dalian Univ Tech 36(1) 20-25 (Jan 1996), 8A1224
Superplasticity and cavitation in light metal matrix composites (Japanese), J Soc Mat Sci Japan 45(2) 149-156 (Feb 1996), 9T535
Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), J Soc Mat Sci Japan 45(2) 212-217 (Feb 1996), 9A774
Effective thermoelastic moduli of a unidirectional fiber composite containing interfacial arc microcracks, J Appl Mech 63(1) 210-217 (Mar 1996), 9A1286
Buckling and fracture behavior of delaminations, Eur J Mech A 15(2) 183-198 (1996), 10A754
Stress analysis of bimaterial strip with debondings under tension, JSME Int J Ser A 39(2) 157-165 (Apr 1996), 10A774
Delamination buckling and postbuckling of composite cylindrical shells, AIAA J 34(6) 1279-1286 (Jun 1996), 11A654
Effects of delaminations on the damped dynamic characteristic of composite laminates: Analysis and experiments, J Sound Vib 192(5) 977-993 (May 1996), 11A655
Bond and splitting in reinforced concrete: Test results on bar pull-out, Mat Struct 29(189) 267-276 (Jun 1996), 11A746
Engineering analysis of buckling of delaminated beam plates, Composite Struct 34(4) 397-407 (1996), 12A628
Prediction of spalling on a ball bearing by applying the discrete wavelet transform to vibration signals, Wear 195(1-2) 162-168 (Jul 1996), 12A726

274M. Micromechanisms

Properties of microcracks formed on surface of concrete at steam curing period (Japanese), Proc JSCE 530(V-28) 143-155 (Aug 1995), 2T601
Proposal of grain boundary damage parameter (Japanese), J Soc Mat Sci Japan 44(505) 1244-1248 (Oct 1995), 4A692
Anisotropic effective moduli of materials with microcracks, Eng Fracture Mech 52(5) 833-842 (Nov 1995), 4A754
Mechanics of Hertzian cracking, Trib Int 28(6) 357-362 (Sep 1995), 5A614
Exponential ductile continuum damage model for metals, Int J Fracture 72(4) 293-310 (1995), 6A626
Appreciation of experimental methods usefulness to analyzing metals embrittlement phenomeny, Arch Naukio Mat 16(3) 217-244 (1995), 9A775
Vibrational imperfection sensitivity of Augusti's model structure in the vicinity of nonlinear static state, Int J Non-Linear Mech 31(2) 229-236 (Mar 1996), 10A875
Micromechanics of fiber pull-out, J Mech Phys Solids 44(7) 1147-1177 (Jul 1996), 12A727

274X. Stochastic aspects

Comments on a current model for scatter of fracture toughness in carbon steels, Fatigue Fracture Eng Mat Struct 18(6) 699-705 (Jun 1995), 1A771
Probabilistic model for initiation and propagation of surface cracks in welded joints, Fatigue Fracture Eng Mat Struct 18(7-8) 821-831 (Aug 1995), 1A772
Risk-based steam generator lifetime optimization, Theor Appl Fracture Mech 23(2) 129-137 (Aug 1995), 1A773
Fatigue damage in the side shells of ships, Marine Struct 8(6) 631-655 (1995), 2A602
Modeling of curvilinear random fatigue crack growth, Eng Fracture Mech 52(4) 703-715 (Nov 1995), 2A603
Stochastic modeling of fracture processes in fiber reinforced composites, AIAA J 33(9) 1689-1697 (Sep 1995), 2A604
Weibull analysis of the strength of carbon fibers using linear and power law models for the length effect, J Composite Mat 29(14) 1873-1884 (1995), 2A605
Weibull modeling of particle cracking in metal matrix composites, Acta Metall Mat 43(10) 3685-3699 (Oct 1995), 2A606
Stochastic model for elastic-plastic fracture analysis of circumferential through-wall-cracked pipes subject to bending, Eng Fracture Mech 52(2) 265-288 (Sep 1995), 2A637
Reliability analysis of structural components under fatigue environment including random overloads, Eng Fracture Mech 52(3) 423-431 (Oct 1995), 2A745
Stochastic model for an R-curve due to crack bridging, Acta Metall Mat 43(11) 4131-4140 (Nov 1995), 3A671
Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, Mat Struct 28(182) 435-443 (Oct 1995), 3A705
Probabilistic inverse analysis for predicting the distribution of multiple internal defects, Eng Fracture Mech 52(6) 1015-1027 (Dec 1995), 4A693
Statistical modeling of microcracking in concrete under compressive cyclic loading, Theor Appl Fracture Mech 24(1) 47-55 (Dec 1995), 4A694
Statistical prediction of fatigue failure of fiber reinforced composite materials, Appl Composite Mat 2(3) 153-173 (1995), 5A615
Cumulative fatigue damage dynamic interference statistical model, Int J Fatigue 17(8) 559-566 (Nov 1995), 6A627
Decay of rosidual stress in stochastic fatigue, J Struct Eng 122(1) 92-98 (Jan 1996), 6A628
Random microstructural effects on fatigue accumulation, Int J Fatigue 17(8) 521-530 (Nov 1995), 6A629
Statistical properties of the failure time distribution for 1/2Cr 1/2Mo 1/4V steels, J Mat Processing Tech 54(1-4) 171-180 (Oct 1995), 6A630
Estimation of bivariate size and orientation distribution of microcracks, Acta Mat 44(2) 475-485 (Feb 1996), 6A684
Competing risks models for fracture in the ductile to brittle transition temperature region, Int J Fracture 73(3) 201-212 (1995), 7A799
Distribution model of fatigue life and its goodness-of-fit test, Chinese J Aeronaut 8(3) 185-190 (Aug 1995), 7A800
Probability damage tolerance evaluation method for multi-cracked structure, Chinese J Aeronaut 8(3) 191-197 (Aug 1995), 7A801
Statistical description of composite laminate structure and damage by delamination, Theor Appl Fracture Mech 24(3) 197-201 (Mar 1996), 8A461
Development of a reliability-based fatigue life model for gas turbine engine structures, Eng Fracture Mech 53(5) 807-828 (Mar 1996), 8A598
Probabilistic criterion for evaluating the goodness of fatigue crack growth models, Eng Fracture Mech 53(5) 707-731 (Mar 1996), 8A599
Reliability against fatigue fracture in the presence of sets of cracks, Eng Fracture Mech 53(5) 753-759 (Mar 1996), 8A600
Reliability analysis of structural components utilizing the strain-life method, Eng Fracture Mech 53(5) 761-774 (Mar 1996), 8A601
Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, Eng Fracture Mech 53(5) 789-805 (Mar 1996), 8A602
Simple second-order approximation for stochastic crack-growth analysis, Eng Fracture Mech 53(5) 677-686 (Mar 1996), 8A603
Stochastic jump and deterministic dynamics model of impact failure evolution with rate effect, Theor Appl Fracture Mech 24(3) 189-196 (Mar 1996), 8A604
Stochastic systems approach to fatigue reliability: An application to Ti-6Al-4V, Eng Fracture Mech 53(5) 687-706 (Mar 1996), 8A605
Three reliability methods for fatigue crack growth, Eng Fracture Mech 53(5) 733-752 (Mar 1996), 8A606
Finite element fracture reliability of stochastic structures, Struct Eng and Mech 3(1) 1-10 (Jan 1995), 8A624
Large sample size experimental investigation on the statistical nature of fatigue crack initiation and growth, Int J Fatigue 18(2) 87-94 (Feb 1996), 9A776
Prediction of probability distribution of fatigue life of 15MnVN steel notched elements under variable-amplitude loading, Int J Fatigue 18(2) 81-86 (Feb 1996), 9A777
Problematic nature of the application of stochastic crack growth models in engineering design, Eng Fracture Mech 53(6) 911-916 (Apr 1996), 9A778
Statistical investigation of fatigue crack initiation and growth process based upon a large sample size experiment, Acta Mech Solida Sinica 9(1) 1-12 (1996), 9A779
Statistically fractal strength theory for brittle materials, Acta Mech Solida Sinica 9(1) 42-51 (1996), 9A780
Statistics for the strength and size effects of micro-composites with four carbon fibers in epoxy resin, Composites Sci Tech 56(1) 75-92 (1996), 9A781
Direct analysis method for probabilistic fracture mechanics, Nucl Eng Des 160(3) 347-362 (Feb 1996), 9A789
Random thermal fatigue in fast breeder reactor: A narrow-band spectrum, Nucl Eng Des 160(3) 333-345 (Feb 1996), 9A1279
Calculation of Weibull life expectancy parameters from fracture data using the maximum likelihood criterion and a Nelder-Mead simplex minimization algorithm, Comp Assisted Mech Eng Sci 3(1) 37-43 (1996), 10A755
Nonlinear fatigue damage accumulation under random loading, J Pressure Vessel Tech 118(2) 168-173 (May 1996), 10A756
Probabilistic approach to applications of the R6 structural integrity assessment method, Int J Pressure Vessels Piping 68(1) 39-43 (1996), 10A757
Probabilistic B-models of cumulative fatigue damage, J Theor Appl Mech 34(2) 355-370 (1996), 10A758
Analytical model for fatigue life prediction based on fracture mechanics and crack closure, J Construct Steel Res 37(3) 229-261 (1996), 11A639
Randomness of fatigue crack growth under constant-amplitude loads, Fatigue Fracture Eng Mat Struct 19(5) 589-600 (1996), 11A656
Study on strength characteristics of Si_3N_4 coil springs, Fatigue Fracture Eng Mat Struct 19(5) 529-537 (1996), 11A814
Artificial neural network method for flawed pipe failure evaluation: Probabilistic models, Int J Pressure Vessels Piping 68(2) 203-207 (1996), 12A728
Fatigue test and reliability design of gears, Int J Fatigue 18(3) 171-177 (Apr 1996), 12A729
Stochastic modeling of fatigue crack growth under constant amplitude loading, Acta Mech Solida Sinica 9(2) 169-178 (1996), 12A730

274Y. Computational techniques

Damage assessment of composite structures: A fuzzy logic integrated neural network approach, Comput Struct 57(3) 491-502 (Nov 1995), 1A774
Use of failure assessment diagrams for the prediction of cleavage fracture in structural applications from the behavior of sub-sized specimens, Int J Pressure Vessels Piping 64(3) 199-211 (1995), 1T775
Expert and knowledge-based systems in failure analysis, Eng Failure Anal 2(2) 137-149 (Jun 1995), 2A288
Pseudo stress and pseudo strain based approaches to multiaxial notch analysis, Fatigue Fracture Eng Mat Struct 18(9) 981-1006 (Sep 1995), 2A395
Thermo-elastic FE fatigue failure analysis, Eng Failure Anal 2(3) 197-207 (Sep 1995), 4A17
Acoustic emission in dynamic compression and its relevance to tribology, Trib Int 28(5) 301-306 (Aug 1995), 4T664
Approximate location of damage through the analysis of natural frequencies with artificial neural networks, Proc Inst Mech Eng E 209(E2) 117-123 (1995), 4A695
Adaptive FEMs for continuum damage modeling, Comput Struct 58(5) 887-900 (Mar 1996), 5A616
Patch test for mesh alignment effects in localized failure, Commun Numer Methods Eng 11(12) 1015-1024 (Dec 1995), 5A617
Energy-based cohesive crack propagation modeling, J Eng Mech 121(12) 1349-1358 (Dec 1995), 6A631
Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), J Soc Mat Sci Japan 44(507) 1417-1422 (Dec 1995), 7A796
Automated detection of surface flaws by the methods of correlation analysis, J Machinery Manuf Reliab 4 88-91 (1995), 7A802
Damage detection and updating of stiffness and mass matrices using mode data, Comput Struct 59(1) 149-156 (Apr 1996), 7A803
Coupled plastic-damaged model, Comput Methods Appl Mech Eng 129(1-2) 81-89 (Jan 1996), 8A607
Finite element analysis of Mode III quasi-static crack growth at a ductile-brittle interface, J Appl Mech 63(1) 204-209 (Mar 1996), 9A848
Analyses of possible failure mechanisms and root failure causes in power plant components using neural networks and structural failure database, J Pressure Vessel Tech 118(2) 237-246 (May 1996), 10A446
Element-embedded localization band based on regularized displacement discontinuity, J Eng Mech 122(5) 402-411 (May 1996), 10A759
Surface integral and FE hybrid method for 3D analysis of arbitrarily shaped surface cracks, J Eng Gas Turbines Power 118(2) 406-410 (Apr 1996), 10A760
Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, J Eng Gas Turbines Power 118(2) 394-398 (Apr 1996), 10A825
Atomistic mechanism of plastic deformation and fracture: Molecular dynamics simulation, Japan J Trib 40(6) 491-499 (1995), 12T712

274Z. Experimental techniques

Procedure to minimize error in fatigue crack growth testing, Fatigue Fracture Eng Mat Struct 18(7-8) 905-915 (Aug 1995), 1A776
Evaluation of deterioration in concrete by stochastic analysis of acoustic emission activity under uniaxial compression (Japanese), Proc JSCE 530(V-28) 13-23 (Aug 1995), 2A607
Environmental scanning electron microscopic investigation of failure mechanisms in electronic packages, J Electron Packaging 117(3) 225-229 (Sep 1995), 3A672
Proposal of grain boundary damage parameter (Japanese), J Soc Mat Sci Japan 44(505) 1244-1248 (Oct 1995), 4A692
Residual shear strength of fatigue cracked slender web panels, Thin-Walled Struct 24(2) 157-172 (1996), 5A604
Development of scanning detection system for cracks on Al_2O_3 ceramics (Japanese), J Japan Soc Precision Eng 61(11) 1599-1603 (Nov 1995), 5A618
Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), Proc JSCE 529(III-33) 165-176 (Dec 1995), 7T779
Hierarchical use of neural techniques in structural damage recognition, Smart Mat Struct 4(4) 270-280 (Dec 1995), 7A804
In-process monitoring of tool damage by active method: Behavior of damping ratio with tool wear development (Japanese), J Japan Soc Precision Eng 61(12) 1750-1754 (Dec 1995), 7A805
Intensity-based optical fiber sensor for fatigue damage detection in advanced fiber-reinforced composites, Smart Mat Struct 4(4) 223-230 (Dec 1995), 7A806
Experimental validation of a methodology to quantify distributed damage in laminated composites using the thermoelastic effect, Exp Tech 20(2) 28-31 (Apr 1996), 9A541
Interlayer exchange coupling and giant magnetoresistance in magnetic multilayers, Acta Phys Polonica A 89(3) 277-299 (Mar 1996), 9A644
Analysis on the use of DCB specimens in fatigue crack growth testing, J Mech Behavior Mat 6(2) 147-163 (1996), 9A748

Dwell sensitivity - Part I: Behavior and modeling, Mech Mat 22(2) 105-130 (Feb 1996), 9A751
Appreciation of experimental methods usefulness to analyzing metals embrittlement phenomeny, Arch Naukio Mat 16(3) 217-244 (1995), 9A775
Influence of the chemical composition of steel on railway rails, in particular on their hydrogen embrittlement, and their susceptibility to delayed cracking (Polish), Arch Naukio Mat 16(3) 199-215 (1995), 9A782
Observation of light pulses at micro-fractures of solid and the temperature estimation of the part by spectral data (Japanese), J Japan Soc Precision Eng 62(2) 290-294 (Feb 1996), 9A866
Behavior of fatigue short cracks in a medium carbon steel subjected to reversed torsion, J Theor Appl Mech 34(2) 327-343 (1996), 10A761
Nondestructive evaluation of corrosion by fractal geometry, Res Nondestructive Eval 7(4) 229-238 (1996), 10A762
Zero-brittleness size-effect method for one-size fracture test of concrete, J Eng Mech 122(5) 458-468 (May 1996), 10A763
Damage indicators for diagnostic of fatigue cracks in structures by vibration measurements: A survey, J Theor Appl Mech 34(2) 307-326 (1996), 10A835
Evaluation of fatigue damage in steels using laser speckle sensor: Change of speckle pattern by fatigue (Japanese), J Soc Mat Sci Japan 45(3) 346-351 (Mar 1996), 10A855
Use of Eddy currents to detect the onset of damage in rotating beam fatigue tests, Nondestruct Test Eval 12(4) 243-252 (1996), 10A869
Effects of delaminations on the damped dynamic characteristic of composite laminates: Analysis and experiments, J Sound Vib 192(5) 977-993 (May 1996), 11A655
Damage gear detection by magnitude and phase demodulation (French), Rev Francaise Mec 0(1) 5-12 (1996), 11A657
Morphological study of vibration signals: Identification of spur and helical gear faults (French), Rev Francaise Mec 0(1) 33-40 (1996), 11A658
Study for crack detecting technique on ferrite ceramics by scanning detecting FID (Japanese), J Japan Soc Precision Eng 62(4) 579-583 (Apr 1996), 11A714
Bond and splitting in reinforced concrete: Test results on bar pull-out, Mat Struct 29(189) 267-276 (Jun 1996), 11A746
Estimation of mode I interlaminar fracture toughness of CFRP laminates by using wedge insert fracture test (Japanese), J Soc Mat Sci Japan 45(5) 484-489 (May 1996), 12A731

276. FRACTURE AND DAMAGE MECHANICS

276A. General theory

Fracture Mechanics of Concrete and Rock: Applications of Fractures Mechanics to Concrete, Rock, and Other Quasi Brittle Materials (Wiley, New York, 1995) 1R17
Continuum damage mechanics: When and how?, Int J Damage Mech 4(3) 217-229 (Jul 1995), 1A777
General properties of strength criteria, Int J Fracture 71(1) 37-56 (1995), 1A778
Neural network representation of fatigue damage dynamics, Smart Mat Struct 4(2) 126-133 (Jun 1995), 1A779
Fatigue and Fracture Mechanics in Pressure Vessels and Piping - Proc of 1995 ASME/ISME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N29
International Pressure Vessels and Piping Codes and Standards - Current Applications, Volume 1 - Proc of 1995 ASME/ISME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N43
Constitutive models for healing of materials with application to compaction of crushed rock salt, J Eng Mech 121(10) 1122-1129 (Oct 1995), 2A608
Fracture criterion for cracks under mixed-mode loading, Fatigue Fracture Eng Mat Struct 18(9) 959-969 (Sep 1995), 2A609
Functional approach to non-local strength conditions and fracture criteria - I: Body and point fracture, Eng Fracture Mech 52(4) 731-743 (Nov 1995), 2A610
Functional approach to non-local strength conditions and fracture criteria - II: Discrete fracture, Eng Fracture Mech 52(4) 745-754 (Nov 1995), 2A611
Fundamental issues of damage mechanics, Mech Mat 21(3) 217-230 (Oct 1995), 2A612
Kinetic equation for damage during superplastic deformation, J Mat Processing Tech 52(2-4) 270-279 (Jul 1995), 3A464
Discontinuous and continuous damage evolution in Ogden-type large-strain elastic materials, Eur J Mech A 14(5) 697-720 (1995), 3A673
Kinetics of fatigue development of interacting plane cracks in a 3D body (Russian), Prikl Mekh (Appl Mech) 30(10) 66-69 (1994), 3A674
New ductile fracture theory and its applications, Acta Mech Sinica 11(1) 83-93 (1995), 3A675
Spectral method for 3D elastodynamic fracture problems, J Mech Phys Solids 43(11) 1791-1824 (Nov 1995), 3A676
Study of failure of the systems of half-restricted elastic material with a potential of harmonic type (Russian), Prikl Mekh (Appl Mech) 30(10) 29-34 (1994), 3A677
Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, Mat Struct 28(182) 435-443 (Oct 1995), 3A705
Fundamental issues in rate theory of damage-elastoplasticity, Int J Plasticity 11(7) 763-797 (1995), 4A453
Brittle fracture in compression: Mechanisms, models, and criteria, Eng Fracture Mech 52(6) 1107-1126 (Dec 1995), 4A696
Ductile crack growth - II: Void nucleation and geometry effects on macroscopic fracture behavior, J Mech Phys Solids 43(12) 1953-1981 (Dec 1995), 4A697
Why K? High order singularities and small scale yielding, Int J Fracture 72(2) 97-120 (1995), 4A698
Applications of Fracture Mechanics in Electronic Packaging and Materials, EEP-Vol 11/MD-Vol 64 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 5N20
Constraint Effects in Fracture Theory and Applications: Second Volume - STP 1244 (ASTM, 1995) 5N22
Deformation and Fracture Mechanics of Engineering Materials, Fourth Edition (Wiley, New York, 1995) 5N23
Further enhancements of Boussinesq-type equations, Coastal Eng 26(1-2) 1-14 (Sep 1995), 5T624
Strength and Fracture of Engineering Solids, Second Edition (Prentice-Hall, Englewood Cliffs NJ, 1996) 6R17
Application of modern aluminum alloys to aircraft, Prog Aerospace Sci 32(2-3) 131-172 (1996), 6A601
Damage, gradient of damage and principle of virtual power, Int J Solids Struct 33(8) 1083-1103 (Mar 1996), 6A632
Introduction to K Weierstrass's historical paper "On splitting and cracking of elastic bodies", Fatigue Fracture Eng Mat Struct 18(12) 1367-1369 (Dec 1995), 6T633
Progressive damage in discrete models and consequences on continuum modeling, J Mech Phys Solids 44(1) 99-136 (Jan 1996), 6A634
Splitting and cracking of elastic bodies, Fatigue Fracture Eng Mat Struct 18(12) 1371-1405 (Dec 1995), 6T635
Hydraulic Fracture Mechanics (Wiley, UK, 1995) 7R29
Elastic-plastic-damage constitutive models with coupling internal variables, Mech Res Commun 23(1) 19-28 (Feb 1996), 7T330
Subsurface and surface cracks under contact loading in transformation-toughened ceramics, J Mech Phys Solids 44(2) 207-231 (Feb 1996), 7A586
Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), J Soc Mat Sci Japan 44(507) 1417-1422 (Dec 1995), 7A796
Bounds on the effective moduli of cracked materials, J Mech Phys Solids 44(2) 233-242 (Feb 1996), 7A807
Constitutive theory for brittle solids with application to concrete, Int J Damage Mech 5(1) 93-110 (Jan 1996), 7A808
Energy approach to crack closure, Int J Fracture 73(3) 263-272 (1995), 7A809
Prediction of resources of materials of machine and construction elements in the process of manufacture and exploitation, J Mat Processing Tech 55(3-4) 292-295 (Dec 1995), 7A810
Thermal stresses in the infinite transversally-isotropic medium with inner elliptical crack, Prikl Mekh (Appl Mech) 30(11) 10-17 (1994), 7A1287
Interface Fracture and Bond (Am Concrete Inst, Detroit, 1995) 8N16
Strength and Fracture of Engineering Solids, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 8N21
Disturbed state constitutive modeling based on stress-strain and nondestructive behavior, Int J Solids Struct 33(11) 1619-1650 (May 1996), 8A5
Boundary element analysis of cracks, Int J Solids Struct 33(13) 1853-1865 (May 1996), 8A56
Numerical calculation of 2D effective moduli for microcracked solids, Int J Solids Struct 33(11) 1575-1586 (May 1996), 8A388
Family of invariant stress fractures, J Eng Mech 122(3) 201-208 (Mar 1996), 8A416
Micromechanics and homogenization of inelastic composite materials with growing cracks, J Mech Phys Solids 44(3) 333-370 (Mar 1996), 8A441
Stresses in the neighborhood of a crack tip under effects of electromagnetic forces, Int J Fracture 73(4) 287-300 (1995), 8A525
Analysis of the fracture of brittle elastic materials using a continuum damage model, Struct Eng and Mech 3(5) 411-427 (Sep 1995), 8A608
Damage nucleation during electromigration along an isolated interface in an elastic medium, J Mech Phys Solids 44(3) 371-387 (Mar 1996), 8A609
Model for crack closure, Eng Fracture Mech 53(4) 493-509 (Mar 1996), 8A610
Theory of brittleness in stress-softening models of fracture mechanics, Eng Fracture Mech 53(4) 527-534 (Mar 1996), 8A611
Derivation and analysis of a generalized standard model for contact, friction, and wear, Int J Solids Struct 33(13) 1817-1836 (May 1996), 8A786
Analytical Fracture Mechanics (Academic, San Diego, CA, 1995) 9R7
Constitutive and damage evolution equations for elastic-plastic-damaging materials based on thermodynamics theory (Japanese), J Soc Mat Sci Japan 45(2) 176-182 (Feb 1996), 9A3
Stability problems of composite materials under compression along the interlayer cracks: Periodic system of parallel macrocracks, Prikl Mekh (Appl Mech) 31(7) 55-62 (1995), 9A612
Statistically fractal strength theory for brittle materials, Acta Mech Solida Sinica 9(1) 42-51 (1996), 9A780
Coupled incremental damage and plasticity theory for metal matrix composites, J Mech Behavior Mat 6(3) 193-219 (1996), 9A783
Cracked lap shear specimen revisited: A closed-form solution, Int J Solids Struct 33(12) 1725-1743 (May 1996), 9A784
Damage zones in strain-hardening materials, Mech Mat 22(2) 131-147 (Feb 1996), 9A785
Definition of crack problems in elasticity, J Mech Behavior Mat 6(3) 263-273 (1996), 9A786
Skew crack extension due to tearing of an elastic half-space, Eng Fracture Mech 53(6) 947-956 (Apr 1996), 9A787
State of the art report - Part 2: Mechanical micro-cracking of concrete, Mat Struct 29(186) 67-78 (Mar 1996), 9A788
Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, Int J Solids Struct 33(16) 2309-2329 (Jul 1996), 10A51
Analysis of stable crack growth in brittle materials - Part I: A process zone model, Int J Fracture 75(2) 95-114 (1995), 10A724
Analysis of stable crack growth in brittle materials - Part II: A bridge zone model, Int J Fracture 75(2) 115-136 (1995), 10A725
Dissipated energy as a function of material microstructure: Towards optimum fracture toughness, J Mech Behavior Mat 6(4) 285-300 (1996), 10A764
Generalized failure criterion for 3D behavior of isotropic materials, Eng Fracture Mech 54(1) 75-90 (May 1996), 10A765
Identification of static strength criteria, J Mech Behavior Mat 6(4) 301-308 (1996), 10A766
Unified model for fracture mechanics, Eng Fracture Mech 54(2) 189-210 (May 1996), 10A767
Fracture Mechanics, Volume 26 (ASTM, 1995) 11N28
Materials Theory, Simulations, and Parallel Algorithms, Volume 408 (Mat Res Soc, Pittsburgh PA) 11N32
Damage and localization in elastic materials with voids, Mech Cohesive-Frictional Mat 1(2) 129-144 (Apr 1996), 11A659
Plastic damage constitutive model for composite materials, Int J Solids Struct 33(17) 2501-2518 (Jul 1996), 11A660
Study on the dual integral of J, Mech Res Commun 23(3) 277-282 (Jun 1996), 11T661
Comparison of shear-lag theory and continuum fracture mechanics for modeling fiber and matrix stresses in an elastic cracked composite lamina, Int J Solids Struct 33(18) 2543-2574 (Jul 1996), 11A673
Dislocation Based Fracture Mechanics (World Sci Pub, River Edge, NJ, 1996) 12R14
Finite thermoelastic fracture criterion with application to laminate cracking analysis, J Mech Phys Solids 44(7) 1129-1145 (Jul 1996), 12A732
Nonlinear 1D continuum damage theory, Int J Mech Sci 38(10) 1139-1150 (Oct 1996), 12A733

276B. Linear elastic fracture mechanics

Fatigue crack growth from 2D surface defects, Fatigue Fracture Eng Mat Struct 18(6) 653-659 (Jun 1995), 1A744
Elastic solutions for corner cracks undergoing uniform displacement-controlled loading, Int J Fracture 70(4) 335-346 (1995), 1A780
K-dominance for a pressurized Griffith crack, Int J Fracture 71(1) 95-97 (1995), 1T781
Leak-before-break: Estimating the leakage area associated with a through-wall circumferential crack in a steel piping system, Int J Pressure Vessels Piping 65(2) 141-145 (1996), 1A782
Crack detection from the variation of the eigenfrequencies of a beam on elastic foundation, Eng Fracture Mech 52(3) 409-421 (Oct 1995), 2A90
New fracture mechanics method to predict the fatigue life of welded cruciform joints, Eng Fracture Mech 52(2) 215-229 (Sep 1995), 2A571
Evaluation of elastic fracture mechanics parameters for bend specimens, Int J Fracture 71(4) 323-343 (1995), 2A613
Local weight functions for semi-elliptical surface cracks in finite thickness plates, Theor Appl Fracture Mech 23(3) 199-208 (Sep 1995), 2A614
Reissner-Sagoci problem for a nonhomogeneous half-space with a penny-shaped crack, J Eng Math 29(5) 437-449 (Sep 1995), 2A615
Toughness given by accumulated work in lefm: Possible implications for elastoplastic J_R "resistance curves", Fatigue Fracture Eng Mat Struct 18(9) 1007-1017 (Sep 1995), 2A616
Thermal mechanical, materials, and structural aspects of nuclear fission energy, Nucl Eng Des 158(2-3) 167-435 (Sep 1995), 2A1271
Mathematical Modelling of Solids with Nonregular Boundaries (CRC Press, Boca Raton FL, 1995) 3R20
Complete solution to the problem of an external circular crack in a transversely isotropic body subjected to arbitrary shear loading, Int J Solids Struct 33(2) 167-191 (Jan 1996), 3A678
Stress-strain analysis near the crack tip using linear-fractional creep law, Mech Solids 30(1) 90-97 (1995), 3A679
Weight functions and invariant integrals of higher order, Mech Solids 30(1) 98-112 (1995), 3A680
Acoustic emission source characterization in concrete under biaxial loading, Mat Struct 28(182) 444-449 (Oct 1995), 3A733
Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, Mech Mat 21(4) 265-279 (Nov 1995), 4A16
Theoretical analysis of fatigue cracking in flexible pavements, Proc Inst Mech Eng C 209(C5) 345-361 (1995), 4A678
Formulation and implementation of the eigenstrain method employing higher order elements, Int J Solids Struct 33(3) 331-342 (Jan 1996), 4A699
Fracture mechanics for a mode III crack in a piezoelectric material, Int J Solids Struct 33(3) 343-359 (Jan 1996), 4A700
Growth of a crack from the boundary of a narrow cavity in a biaxially-compressed body, J Appl Math Mech 59(3) 467-474 (1995), 4A701
Multiple cracks in transformation toughened ceramics, Mech Mat 21(4) 325-334 (Nov 1995), 4A702
Remaining life analysis for a pressure vessel subjected to cyclic loads based on fracture mechanics, Int J Fatigue 17(7) 477-483 (Oct 1995), 4A703
Stressed state near a microflaw cluster point, J Appl Math Mech 59(3) 475-484 (1995), 4A704
Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, Mech Mat 21(4) 281-301 (Nov 1995), 4A705
Effect of end notch on shear capacity of simply supported prestressed hollow core slabs: Numerical experiments, Struct Eng Review 7(4) 277-288 (Nov 1995), 4A807
Calculation of stress fields near inclusions by use of the fracture mechanics weight function, Eng Fracture Mech 53(1) 17-22 (Jan 1996), 5A405
Determination of the partitioning point dividing ΔK into ΔK_{eff}, Eng Fracture Mech 53(1) 23-36 (Jan 1996), 5A587
Fractographic analyses of fatigue crack growth in D16T alloy subjected to biaxial cyclic loads at various R-ratios, Fatigue Fracture Eng Mat Struct 18(11) 1263-1276 (Nov 1995), 5T589
Response of short cracks in high-strength steels to fatigue loadings - Part I: Behavior in air and freely corroding in seawater, J Offshore Mech Arctic Eng 117(3) 183-191 (Aug 1995), 5A600
Response of short cracks in high-strength steels to fatigue loadings - Part II: Behavior in seawater under cathodic polarization, J Offshore Mech Arctic Eng 117(3) 192-199 (Aug 1995), 5A601
Fatigue-crack-growth-based analysis of two-step corrosion fatigue tests, Fatigue Fracture Eng Mat Struct 18(11) 1311-1321 (Nov 1995), 5A609
Crack very close to a bimaterial interface, J Appl Mech 62(3) 614-619 (Sep 1995), 5A619
Fatigue life analyses and tests for thick-wall cylinders including effects of overstrain and axial grooves, J Pressure Vessel Tech 117(3) 222-226 (Aug 1995), 5A620
Axially symmetric thermal stress of a penny-shaped crack under general heat flux, J Thermal Stresses 18(6) 635-652 (Dec 1995), 5A1192
Random microstructural effects on fatigue accumulation, Int J Fatigue 17(8) 521-530 (Nov 1995), 6A629
Analysis of failure of axle housing of crane truck with fracture mechanics, Eng Failure Anal 2(4) 233-246 (Dec 1995), 6A636
Effect of mixed mode I and II loading on the fracture surface of polymethyl methacrylate, Int J Fracture 72(4) 359-381 (1995), 6A637
Fracture mechanics for the design of ceramic multilayer actuators, J Mech Phys Solids 44(1) 23-48 (Jan 1996), 6A638
Mechanics of Materials (Wiley, New York, 1996) 7N17

Fractal two-level FE analysis of cracked Reissner's plate, Thin-Walled Struct 24(4) 315-334 (1996), 7A21
Model of nonlinear mechanics of cracks, Prikl Mekh (Appl Mech) 30(11) 3-9 (1994), 7A811
Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, JSME Int J Ser A 39(1) 26-33 (Jan 1996), 7A812
Time-harmonic body force loading of a mode-II penny-shaped crack in an elastic solid, Int J Eng Sci 34(3) 269-287 (Feb 1996), 7A813
Two-dimensional four-noded FE containing a singularity of order λ, Struct Eng and Mech 3(4) 383-390 (Jul 1995), 8A49
Effects of short cracks on fatigue life calculations, Int J Fatigue 18(1) 25-31 (Jan 1996), 8A573
Fatigue crack growth simulations based on free front shape development, Fatigue Fracture Eng Mat Struct 19(1) 99-109 (1996), 8A574
Part-through cracks in round bars under cyclic combined axial and bending loading, Int J Fatigue 18(1) 33-39 (Jan 1996), 8A578
Comparison of short and long fatigue crack growth in steel, Int J Fatigue 18(1) 17-23 (Jan 1996), 8A580
Extension of a layer weakened by tunnelling cuts, J Appl Math Mech 59(5) 797-804 (1995), 8A612
Failure of brittle materials near stress singularities, Eng Fracture Mech 53(4) 511-518 (Mar 1996), 8A613
Fundamental energy argument of elastic fracture mechanics, Int J Fracture 74(1) 43-61 (1995), 8A614
Indentation of a cantilever beam or plate, Int J Fracture 74(2) 99-130 (1995), 8A615
Stress-intensity factor for a semi-elliptical surface crack at the thread root of a screwed-pipe joint, Comput Struct 59(3) 419-424 (May 1996), 8A616
Calculation of stress intensity factors by the surface integral method, Struct Eng and Mech 3(6) 541-553 (Nov 1995), 8A618
Finite element fracture reliability of stochastic structures, Struct Eng and Mech 3(1) 1-10 (Jan 1995), 8A624
Applying strain energy density factor theory to propagation estimating of surface crack in tubular T-joints, Eng Fracture Mech 53(6) 849-858 (Apr 1996), 9A744
Direct analysis method for probabilistic fracture mechanics, Nucl Eng Des 160(3) 347-362 (Feb 1996), 9A789
Fracture mechanics-based design method for SFRC tunnel linings, Proc JSCE 532(V-30) 221-233 (Feb 1996), 9A790
Fracture of infinite compressible composite containing finite cylindrical crack under the conditions of axial compression, Prikl Mekh (Appl Mech) 31(9) 15-23 (1995), 9A791
Hypersingular integral equations for multiple interacting planar cracks in an elastic layered material under antiplane shear stress, Eng Anal Boundary Elements 16(4) 289-295 (1995), 9A792
Relationship between fracture parameters from two parameter fracture model and from size effect model, Mat Struct 29(186) 79-86 (Mar 1996), 9A793
Study on seam performance of polymer-modified bituminous roofing membranes using T-peel test and microscopy, Mat Struct 29(186) 105-115 (Mar 1996), 9A794
Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, Mat Struct 29(186) 87-96 (Mar 1996), 9A795
Twinning-induced stress concentrations in polycrystalline solids, Math Mech Solids 1(1) 95-110 (Mar 1996), 9A796
Pull-out of axisymmetric headed anchors, Mat Struct 29(187) 152-157 (Apr 1996), 10A768
Qualitative estimates of gas-filling crack growth, Mech Solids 30(6) 110-116 (1995), 10A769
Shielding due to aligned microcracks in anisotropic media, Mech Mat 22(3) 203-217 (Mar 1996), 10A813
Analysis of the effect of crystallographic orientations on the fracture of nickel-base single crystals (Chinese), J Comput Struct Mech Appl 13(2) 176-179 (May 1996), 11A28
Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, Finite Elements Anal Des 22(1) 69-83 (May 1996), 11A32
Dual BEM for transient thermoelastic crack problems, Int J Solids Struct 33(19) 2695-2718 (Aug 1996), 11A59
Certain two-punch problems for an elastic layer, Int J Solids Struct 33(19) 2759-2774 (Aug 1996), 11A424
Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezoelectric material, Int J Solids Struct 33(19) 2719-2737 (Aug 1996), 11A558
Analytical model for fatigue life prediction based on fracture mechanics and crack closure, J Construct Steel Res 37(3) 229-261 (1996), 11A639
Damage and localization in elastic materials with voids, Mech Cohesive-Frictional Mat 1(2) 129-144 (Apr 1996), 11A659
General treatment of an oblique crack near a bimaterial interface under antiplane loading, Int J Solids Struct 33(17) 2485-2500 (Jul 1996), 11A662
Influence of layer thickness on the stress intensity factor of a crack lying in an elastic (viscoelastic) layer embedded in a different elastic (viscoelastic) medium: Mode III analysis, Int J Eng Sci 34(6) 639-658 (May 1996), 11A663
Size effects on concrete fracture energy: Dimensional transition from order to disorder, Mat Struct 29(189) 259-266 (Jun 1996), 11A664
Complex stress intensity factor of multi-material structure with an interface crack (Chinese), J Comput Struct Mech Appl 13(2) 180-186 (May 1996), 11A665
Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, Thin-Walled Struct 25(4) 269-295 (1996), 11A679
Mechanical properties of reactive powder concrete, Mat Struct 29(188) 233-240 (May 1996), 11A759
Dislocation Based Fracture Mechanics (World Sci Pub, River Edge, NJ, 1996) 12R14
Analysis of composite laminates with transverse cracks, Composite Struct 34(4) 419-426 (1996), 12A557
Analysis of a cracked lug loaded by an interference fit pin, Int J Mech Sci 38(8-9) 967-979 (Sep 1996), 12A734
Effective stress intensity factor and contact stress for a partially closed Griffith crack in bending, Eng Fracture Mech 54(5) 667-678 (Jul 1996), 12A735
Experimental investigations and computational fracture mechanics modeling of brittle ice fragmentation, Acta Polytech Scand Mech Eng 0(120) 11-105 (1996), 12A736

276C. Nonlinear elastic fracture problems

Existence theory for nonlinear elasticity that allows for cavitation, Arch Rational Mech Anal 131(1) 1-66 (1995), 1A636
Discontinuous and continuous damage evolution in Ogden-type large-strain elastic materials, Eur J Mech A 14(5) 697-720 (1995), 3A673
Experimental investigation of tensile fracture in polyurethane foams, J Mat in Civil Eng 7(4) 258-264 (Nov 1995), 3A718
Impact fracture of polyethylene: A nonlinear-elastic thermal decohesion model, Eng Fracture Mech 52(6) 999-1014 (Dec 1995), 4A706
Crack propagation in homogeneous and bimaterial sheets under general in-plane loading: Nonlinear analysis, J Appl Mech 62(3) 601-606 (Sep 1995), 5A621
Effective relations for nonlinear dynamics of cracked solids, J Mech Phys Solids 44(1) 49-75 (Jan 1996), 6A681
Resonance and stress concentration in a prestressed elastic solid containing a crack: An apparent paradox, Int J Eng Sci 34(3) 363-374 (Feb 1996), 7A814
Stability Problems in Fracture Mechanics - Wiley Series in Nonlinear Science (Wiley, New York, 1996) 12R18
Three-dimensional analysis of surface cracks in an elastic half-space, J Appl Mech 63(2) 287-294 (Jun 1996), 12A487
Interface cracks in a layered solid subjected to contact stresses, J Appl Mech 63(2) 271-277 (Jun 1996), 12A488
Singularities at the tip of a crack terminating normally at an interface between two orthotropic media, J Appl Mech 63(2) 264-270 (Jun 1996), 12A491

276D. Stress intensity factor calculations

Stress singularities at crack corners, J Elast 39(1) 1-16 (Apr 1995), 1A458
Radial crack in elastic dielectric cylinder - I: Formulation of the problem for interactions of dielectric with electrostatic field, Bull Polish Acad Sci Tech Sci 43(2) 151-163 (1995), 1A685
Radial crack in elastic dielectric cylinder - II: Stress intensity coefficient K_I, Bull Polish Acad Sci Tech Sci 43(2) 165-178 (1995), 1A686
Crack interaction in brittle anisotropic materials, Arch Mech 47(1) 39-67 (1995), 1A783
Stress intensity factor evaluation of constructional details for tubular structures, Theor Appl Fracture Mech 23(2) 155-163 (Aug 1995), 1A784
Stress intensity factors and weight functions for longitudinal semi-elliptical surface cracks in thin pipes, Int J Pressure Vessels Piping 65(1) 75-87 (1996), 1A785
Axially symmetric thermal stress of an external circular crack under general thermal conditions, Arch Appl Mech 65(6) 374-389 (Jul 1995), 1A1288
Application of FE techniques in the displacement compatibility method, Eng Fracture Mech 52(4) 625-638 (Nov 1995), 2A8
Analysis of the residual stress intensity factor of Vickers indentation cracks, Eng Fracture Mech 52(4) 773-776 (Nov 1995), 2A617
Computer-aided quantifier elimination in crack problems under constraints for the stress intensity factors, Eng Fracture Mech 52(3) 571-574 (Oct 1995), 2A618
Evaluation of stress intensity factors for steel tubular T-joints using line spring and shell elements, Eng Failure Anal 2(1) 31-44 (Mar 1995), 2A619
p-version FE approximations of stress intensity factors for cracked plates including shear deformation, Eng Fracture Mech 52(3) 493-502 (Oct 1995), 2A620
Photoelastic determination of mixed mode stress intensity factors for sharp reentrant corners, Eng Fracture Mech 52(4) 639-645 (Nov 1995), 2A621
Weight functions and invariant integrals of higher order, Mech Solids 30(1) 98-112 (1995), 3A680
Computation of membrane and bending stress intensity factors for thin, cracked plates, Int J Fracture 72(1) 21-38 (1995), 3A681
Routine FE determination of stress intensity factors using a Muller-Breslau influence function technique, Fatigue Fracture Eng Mat Struct 18(10) 1115-1132 (Oct 1995), 3A682
Stress intensity factors for circumferential surface cracks in pipes, Fatigue Fracture Eng Mat Struct 18(10) 1155-1172 (Oct 1995), 3A683
Temperature stresses near cracks in elastic plate weakened with two holes (Russian), Prikl Mekh (Appl Mech) 30(9) 68-74 (1994), 3A684
Body force weight functions of cracked bodies, Eng Fracture Mech 52(5) 865-877 (Nov 1995), 4A707
Determination of stress intensity factor in ultrasonic fatigue loading by means of dynamic modal analysis and 3D FE calculation, Eng Fracture Mech 52(6) 1079-1086 (Dec 1995), 4A708
New weight function approach using indirect boundary integral method, Eng Fracture Mech 52(6) 1087-1105 (Dec 1995), 4A709
Stress intensity factors for internal semi-elliptical surface cracks in pressurized thick-walled cylinders using the hybrid BEM, Eng Fracture Mech 52(6) 1055-1064 (Dec 1995), 4A710
Stress intensity factors for semi-elliptical surface cracks in plates and cylindrical pressure vessels using the hybrid BEM, Eng Fracture Mech 52(6) 1035-1054 (Dec 1995), 4A711
Weight function for a single edge cracked geometry with clamped ends, Int J Fracture 72(2) 145-158 (1995), 4A712
Stress analysis of plates with bonded unbalanced laminates, Composite Struct 33(3) 173-190 (1995), 5A507
Collinear internal cracks and edge crack in a semi-infinite sheet subjected to arbitrary tractions, J Pressure Vessel Tech 117(3) 256-259 (Aug 1995), 5A622
Determination of stress intensity factors in the case of a combined loading by the method of holographic interferometry, J Machinery Manuf Reliab 2 46-51 (1995), 5A623
Further enhancements of Boussinesq-type equations, Coastal Eng 26(1-2) 1-14 (Sep 1995), 5T624
Stress-intensity factors for an internal semi-elliptical surface crack in cylindrical pressure vessels, J Pressure Vessel Tech 117(3) 213-221 (Aug 1995), 5A625
Performance of isoparametric FEs in stress intensity factor determination, Int J Fracture 72(3) 259-275 (1995), 6A17
Normally incident transverse wave scattering by a plane crack, Mech Solids 30(3) 77-91 (1995), 6A186
Evaluation of bimaterial stress intensity factors using a FE and BE alternating method, Eng Fracture Mech 53(2) 289-302 (Jan 1996), 6A639
Experimental K-calibration for corner cracks under bending loading, Int J Fatigue 17(8) 545-550 (Nov 1995), 6A640
Generalized stress intensity factors in linear elastostatics, Int J Fracture 72(3) 223-240 (1995), 6A641
Interactions of two coplanar elliptical cracks embedded in finite thickness plates under uniform tension, Eng Fracture Mech 53(2) 179-191 (Jan 1996), 6A642
Torsion of compound cylinder with an external annular crack, JSME Int J Ser A 39(1) 42-48 (Jan 1996), 7A497
Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, Composite Struct 34(1) 91-100 (1996), 7A582
Analyzing the fatigue crack growth in structural details, Eng Fracture Mech 53(3) 345-361 (Feb 1996), 7A773
Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, JSME Int J Ser A 39(1) 34-41 (Jan 1996), 7A788
Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), J Soc Mat Sci Japan 45(1) 131-136 (Jan 1996), 7A815
Stressed state of transversally isotropic medium with a parabolic crack, linearly changing pressure being applied to its surface, Prikl Mekh (Appl Mech) 30(12) 12-18 (1994), 7A816
Stressed state of transversally isotropic medium with parabolic crack under linearly changing shift load (Russian), Prikl Mekh (Appl Mech) 31(5) 11-19 (1995), 7A817
Stressed state of transversally-isotropic body with elliptical crack under uniform heat flow on its surface (Russian), Prikl Mekh (Appl Mech) 31(3) 24-32 (1995), 7A818
Singularities of an interface crack impinging on a triple grain junction, Int J Solids Struct 33(11) 1563-1573 (May 1996), 8A386
Crack growth of through and part-through thickness cracks under cyclic loading, Theor Appl Fracture Mech 24(3) 243-251 (Mar 1996), 8A568
Calculation of dynamic stress intensity factors for a cracked thick-walled cylinder, Int J Fracture 73(4) 359-366 (1995), 8A617
Calculation of stress intensity factors by the surface integral method, Struct Eng and Mech 3(6) 541-553 (Nov 1995), 8A618
Crack front curvature effect on stress intensity factor of through and part-through thickness cracks, Theor Appl Fracture Mech 24(3) 233-241 (Mar 1996), 8A619
Determination of stress field in an elastic solid weakened by parallel penny-shaped cracks, Acta Mech 114(1-4) 83-94 (1996), 8A620
Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, Theor Appl Fracture Mech 24(3) 203-215 (Mar 1996), 8A621
Elliptical subsurface cracks under a normal stress and a residual stress field, Fatigue Fracture Eng Mat Struct 19(1) 129-139 (1996), 8A622
Experimental determination of stress intensity factors of cracks in sheet structures with bolted stiffeners, Eng Fracture Mech 53(4) 561-569 (Mar 1996), 8A623
Finite element fracture reliability of stochastic structures, Struct Eng and Mech 3(1) 1-10 (Jan 1995), 8A624
Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), J Comput Struct Mech Appl 13(1) 67-73 (Feb 1996), 9A109
Contour integral method for stress intensity factors of mixed-mode crack (Chinese), J Comput Struct Mech Appl 13(1) 84-89 (Feb 1996), 9A797
Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), J Comput Struct Mech Appl 12(1) 110-115 (Feb 1995), 9A798
Hoop stress intensity factor and crack-kinking in anisotropic brittle solids, Int J Solids Struct 33(14) 2023-2037 (Jun 1996), 9A799
New experiment-calculation mixing method used to determine stress intensity factors (Chinese), J Dalian Univ Tech 36(2) 152-156 (Mar 1996), 9A800
New weight function approach using indirect boundary integral method, Eng Fracture Mech 53(6) 957-974 (Apr 1996), 9A801
Numerical analysis of the interaction of solute hydrogen atoms with the stress field of a crack, Int J Solids Struct 33(12) 1709-1723 (May 1996), 9A802
Practical procedure for evaluating SIFs along fronts of semi-elliptical surface cracks at weld toes in complex stress fields, Int J Fatigue 18(2) 127-135 (Feb 1996), 9A803
Problems of the elliptical holes or cracks in orthotropic plates (Chinese), J Comput Struct Mech Appl 12(3) 364-368 (Aug 1995), 9A804
Stressed state of a transversally-isotropic body with internal elliptical crack under linearly-changing shift load on the crack surfaces, Prikl Mekh (Appl Mech) 31(7) 37-46 (1995), 9A805
Stressed state of transversally-isotropic body with a parabolic crack under uniform heat flow on its surface, Prikl Mekh (Appl Mech) 31(9) 24-30 (1995), 9A806
Brittle fracture of a compressed cylinder, J Machinery Manuf Reliab 5 53-58 (1995), 9A835
Approximate expression of $K_{I max}$ for sphere-nozzle corner cracks, Int J Pressure Vessels Piping 67(3) 273-278 (1996), 10A770
Effect of a microdefect ahead of a main crack on strength of solids: Exact solution to the main crack-microdefect interaction model, JSME Int J Ser A 39(2) 231-236 (Apr 1996), 10A771
Extension fracture due to collinear cracks, Eng Fracture Mech 54(1) 25-33 (May 1996), 10A772
Influence of elastic waves on dynamic stress intensity factors: 2D problems, Arch Appl Mech 66(5) 326-335 (Apr 1996), 10A773
Stress analysis of bimaterial strip with debondings under tension, JSME Int J Ser A 39(2) 157-165 (Apr 1996), 10A774
Stress intensity factors and weight functions for a corner crack in a finite thickness plate, Eng Fracture Mech 54(1) 49-61 (May 1996), 10A775
Stress intensity factors for cracks in conventional S-N fatigue specimens, J Pressure Vessel Tech 118(2) 203-207 (May 1996), 10A776
Stress intensity factors in 2D crack problems by using the superimposed meshes method, Eng Fracture Mech 54(1) 113-125 (May 1996), 10A777

Variation of stress intensity factor and crack opening displacement of semi-elliptical surface crack, Int J Fracture 75(1) 19-48 (1995), 10A778
Dynamic thermal stresses in a finite circular plate with a penny-shaped crack generated by impulsive heating, JSME Int J Ser A 39(2) 172-178 (Apr 1996), 10A1328
Complex stress intensity factor of multi-material structure with an interface crack (Chinese), J Comput Struct Mech Appl 13(2) 180-186 (May 1996), 11A665
Fracture behavior of unidirectional commingled-yarn-based carbon fiber-polyamide 6 composite under three-point bending, J Composite Mat 30(7) 760-784 (1996), 11A666
Self-consistent approximation for crack bridging by elastic-perfectly plastic ligaments, Mech Mat 22(4) 249-263 (Apr 1996), 11A667
Solution of cracks emanating from circular holes, J Strain Anal Eng Des 31(3) 235-242 (May 1996), 11A668
Finite-length cracks and inclusions in poroelasticity, Quart J Mech Appl Math 49(2) 311-335 (May 1996), 11A690
Mechanical properties of reactive powder concrete, Mat Struct 29(188) 233-240 (May 1996), 11A759
Fractal two-level FEM for cracked Kirchhoff's plates using DKT elements, Eng Fracture Mech 54(5) 703-711 (Jul 1996), 12A737
Self-similar crack expansion method for the stress intensity factor analysis, Acta Mech Solida Sinica 9(2) 104-123 (1996), 12A738
Stress intensity analyses on tension of a finite thickness plate with two coplanar semi-elliptical surface cracks, Eng Fracture Mech 54(5) 693-701 (Jul 1996), 12A739
Stress intensity relaxation at the tip of an edge crack in a functionally graded material subjected to a thermal shock, J Thermal Stresses 19(4) 317-339 (Jun 1996), 12A740

276E. Viscoelastic problems

Viscoelastic effects on the interlaminar fracture behavior of thermoplastic matrix composites - I: Rate and temperature dependence in unidirectional PEI-carbon-fiber laminates, Composites Sci Tech 54(2) 193-200 (1995), 1A786
Crack and Contact Problems for Viscoelastic Bodies (Springer-Verlag, Wien, 1995) 2N25
Critical crack assessment procedure for high pressure steam turbine rotors, Fatigue Fracture Eng Mat Struct 18(9) 923-934 (Sep 1995), 2A622
Nonlinear thermoviscoelastic stress and fracture analysis of an adhesive bond, J Mech Phys Solids 43(10) 1505-1549 (Oct 1995), 2A623
Physical aging behavior of high-performance composites, Composites Sci Tech 54(4) 405-415 (1995), 3A685
Effects of heat treatment on the creep crack growth of alloy 800H possessing long service history, Eng Failure Anal 2(3) 209-214 (Sep 1995), 4A687
Link between crack velocity and rupture time in creeping solids, Eng Fracture Mech 53(2) 213-230 (Jan 1996), 6A643
Size effect on crack-tip creep, Eng Fracture Mech 53(2) 309-310 (Jan 1996), 6A644
Long-term failure of cylindrically anisotropic viscoelastic material with a crack under variable load, Prikl Mekh (Appl Mech) 30(12) 61-68 (1994), 7A777
3rd International Colloquium: Aging of materials and methods for assessing the lifetime extension of engineering plants, Int J Pressure Vessels Piping 66(1-3) 3-415 (1996), 7A789
Nonlocal damage mechanics approach to high-temperature fatigue crack growth, Eng Fracture Mech 53(4) 535-543 (Mar 1996), 8A577
Characterization of creep-fatigue crack growth behavior in 2.25 Cr-1 Mo steel using $(C_t)_{avg}$, Int J Fracture 73(4) 273-286 (1995), 8A595
Crack-tip asymptotic character of anti-plane stress and strain rate for linear fractional constitutive relations, Theor Appl Fracture Mech 24(3) 263-268 (Mar 1996), 8A625
High strain-rate impact studies of predamaged rocket propellants - I: Characterization of damage using a cumulative damage failure criterion, Combust Flame 104(4) 524-534 (Mar 1996), 9A807
Long-term crack-resistance of orthotropic viscoelastic plate under uniaxial loading, Prikl Mekh (Appl Mech) 31(9) 66-72 (1995), 9A808
Nonlinear effects around the fast running crack tip, Arch Mech 47(5) 889-897 (1995), 9A809
Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steels - Part I: Estimation of crack tip parameters, Fatigue Fracture Eng Mat Struct 19(4) 387-399 (1996), 10A751
Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steel - Part II: Crack growth behavior and models, Fatigue Fracture Eng Mat Struct 19(4) 401-411 (1996), 10A752
Edge delamination of residually-stressed thin films: Viscoelastic effects, Int J Fracture 75(3) 215-228 (1995), 10A779

276F. Crack tip plasticity problems

Formation of shear bands in plane sheet, Int J Plasticity 11(5) 605-622 (1995), 1A501
Analysis of constraint in single edge notch tension specimens using the T-stress, Int J Pressure Vessels Piping 65(1) 13-19 (1996), 1A787
Calculation of elastoplastic strains and stresses in notches under multiaxial loading, Int J Fracture 70(4) 357-373 (1995), 1A788
Constraint-based failure assessment diagram for fracture assessment, Int J Pressure Vessels Piping 64(3) 277-285 (1995), 1T789
Constraint-based failure assessment diagrams, Int J Pressure Vessels Piping 64(3) 287-296 (1995), 1T790
Ductile fracture of a pipe with a part-through slot, Int J Pressure Vessels Piping 65(2) 171-179 (1996), 1A791
Edge dislocation of constant velocity near a static internal crack, Int J Fracture 71(1) 15-35 (1995), 1A792
Effects of void cluster size on ductile fracture, Int J Plasticity 11(5) 571-582 (1995), 1A793
Elastoplastic branched analysis for an interface crack based on crack energy density, Acta Mech Solida Sinica 8(2) 171-177 (1995), 1A794
Elastoplastic crack analysis by boundary integral method and surface spectrum measurement, Int J Fracture 71(2) 165-176 (1995), 1A795
Experience in the use of damage mechanics to simulate crack behavior in specimens and structures, Int J Pressure Vessels Piping 64(3) 213-223 (1995), 1T796
Experimental J evaluation from a load-displacement curve for homogeneous and overmatched SENB or CCT specimens, Fatigue Fracture Eng Mat Struct 18(6) 679-692 (Jun 1995), 1A797
Ligament-yield load of plates and cylinders with an axial semi-elliptical flaw, Fatigue Fracture Eng Mat Struct 18(7-8) 777-787 (Aug 1995), 1A798
Mode I and mixed-mode stable crack extensions through stiffened three-point bend specimens, Fatigue Fracture Eng Mat Struct 18(6) 645-652 (Jun 1995), 1A799
New failure criterion for the Gurson-Tvergaard dilational constitutive model, Int J Fracture 70(4) 321-334 (1995), 1A800
Second ASTM-ESIS Symposium on constraint effects in fracture: An overview, Int J Pressure Vessels Piping 64(3) 259-275 (1995), 1T801
Toughening due to transformations induced by a crack tip stress field in ferroelastic materials, Int J Solids Struct 32(22) 3289-3305 (Nov 1995), 1A802
Transition from fibrous fracture to cleavage fracture, Int J Pressure Vessels Piping 64(3) 225-234 (1995), 1T803
Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, Fatigue Fracture Eng Mat Struct 18(7-8) 789-800 (Aug 1995), 1A1416
Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, Fatigue Fracture Eng Mat Struct 18(6) 731-746 (Jun 1995), 1A1417
Hold time crack growth analysis at elevated temperatures, Eng Fracture Mech 52(3) 433-444 (Oct 1995), 2A567
Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, Eng Fracture Mech 52(3) 525-555 (Oct 1995), 2A573
Applications of two parameter approaches in elastic-plastic fracture mechanics, Eng Fracture Mech 52(3) 445-465 (Oct 1995), 2A624
Calculation of the second fracture parameter for finite cracked bodies using a three-term elastic-plastic asymptotic expansion, Eng Fracture Mech 52(4) 685-701 (Nov 1995), 2A625
Comparison of the various K based procedures for characterizing the failure of an elastic softening solid, Theor Appl Fracture Mech 23(3) 245-252 (Sep 1995), 2A626
Dynamic elastic-plastic FEM analysis of a fracture specimen under plane stress state, Eng Fracture Mech 52(4) 755-763 (Nov 1995), 2A627
Effect of mechanical constraint on the flow and fracture of 63-37 Sn-Pb eutectic alloy, Eng Fracture Mech 52(4) 647-669 (Nov 1995), 2A628
Effect of triaxial stress on mixed-mode fracture, Eng Fracture Mech 52(2) 379-388 (Sep 1995), 2A629
Effects of fatigue precracking on stretch zone formation, Eng Fracture Mech 52(3) 401-408 (Oct 1995), 2A630
Fracture prediction and necking analysis, Eng Fracture Mech 52(3) 575-582 (Oct 1995), 2A631
Generalized fictitious crack model based on plastic localization and discontinuous approximation, Int J Numer Methods Eng 38(18) 3167-3188 (Sep 1995), 2A632
Mechanics of fatigue crack growth in a medium with micro-damage, J Appl Math Mech 59(2) 289-297 (1995), 2A633
Non-uniqueness of the maximum load J-value with a cohesive zone model of an elastic-softening solid, Eng Fracture Mech 52(4) 765-771 (Nov 1995), 2A634
Phenomenological modeling of a brittle-to-ductile transition for bodies with cracks, Eng Fracture Mech 52(2) 255-263 (Sep 1995), 2A635
Quantifications of crack constraint effects in an austenitic steel, Int J Fracture 71(3) 273-291 (1995), 2A636
Stochastic model for elastic-plastic fracture analysis of circumferential through-wall-cracked pipes subject to bending, Eng Fracture Mech 52(2) 265-288 (Sep 1995), 2A637
Stress and energy density fields near a blunted crack front in power hardening material, Theor Appl Fracture Mech 23(3) 165-176 (Sep 1995), 2A638
Variation of fracture energies G_{IC}, τ_{wof}, J_{IC} with specimen size and pre-fired temperature in a low cement refractory, Eng Fracture Mech 52(3) 557-570 (Oct 1995), 2A639
Early Fatigue Crack Growth at Welds (Comput Mech, Billerica MA, 1995) 3R17
Crack tip field in a rubber sheet, Eur J Mech A 14(5) 665-677 (1995), 3A515
Stochastic model for an R-curve due to crack bridging, Acta Metall Mat 43(11) 4131-4140 (Nov 1995), 3A671
Stress-strain analysis near the crack tip using linear-fractional creep law, Mech Solids 30(1) 90-97 (1995), 3A679
Asymptotic analysis of growing crack stress-deformation fields in porous ductile metals and implications for stable crack growth, Int J Fracture 72(1) 69-96 (1995), 3A686
Constraint effects on ductile crack growth in cladded components subjected to uniaxial loading, Fatigue Fracture Eng Mat Struct 18(10) 1051-1069 (Oct 1995), 3A687
Effect of elastic mismatch on the growth of a crack initially terminated at an interface in elastic plastic bimaterials, Fatigue Fracture Eng Mat Struct 18(10) 1201-1212 (Oct 1995), 3A688
Fully plastic ductile tearing of HY130 steel: An analysis by j,COD, energy rate and crack opening angle, J Strain Anal Eng Des 30(4) 257-269 (Oct 1995), 3A689
Ductile crack growth - II: Void nucleation and geometry effects on macroscopic fracture behavior, J Mech Phys Solids 43(12) 1953-1981 (Dec 1995), 4A697
Crack tip and notch tip plastic zone size measurement by the laser speckle technique, Eng Fracture Mech 52(5) 879-893 (Nov 1995), 4A713
Modeling of rotational factor in notched bend specimen under general and local yield situation, Theor Appl Fracture Mech 24(1) 33-46 (Dec 1995), 4A714
Stress-strain field near crack tip and calculation of critical stress of crack propagation in a pure bending beam of rectangular section with one-sided mode I crack, Appl Math Mech 16(8) 779-789 (Aug 1995), 4A715
Three-strip yield model in mixed-mode fracture, Int J Fracture 72(2) 183-189 (1995), 4A716
Fracture in austenitic components, Int J Pressure Vessels Piping 65(3) 193-378 (1996), 4A1350
Periodic tensile overloads in 2024-T3 Al-alloy, Eng Fracture Mech 53(1) 69-77 (Jan 1996), 5A599
Blunting line in elastic-plastic fracture, Fatigue Fracture Eng Mat Struct 18(11) 1289-1297 (Nov 1995), 5A626
Characterization of elevated temperature crack growth in Hastelloy-X using integral parameters, J Eng Mat Tech 117(3) 299-304 (Jul 1995), 5A627
Dugdale solution for cracks at the edge of an elliptical hole in an infinite and finite plate, Eng Fracture Mech 53(1) 97-106 (Jan 1996), 5A628
Fully-plastic crack propagation in stiffened plates, Int J Solids Struct 33(5) 629-645 (Feb 1996), 5A629
Inelastic response of a deep crack single-edge notch specimen under impact loading, J Offshore Mech Arctic Eng 117(3) 205-211 (Aug 1995), 5A630
Materials division diamond jubilee special issue, J Eng Mat Tech 117(4) 352-493 (Oct 1995), 5A631
Mixed mode I-II fracture toughness of 2034 aluminum alloys, Acta Mat 44(1) 201-208 (Jan 1996), 5A632
Model of a failing elastoplastic body with a crack, J Machinery Manuf Reliab 2 41-45 (1995), 5A660
Analyses of damage localization at crack tip in a brittle damaged material, Eng Fracture Mech 53(2) 169-177 (Jan 1996), 6A645
Criterion for plane strain, fully plastic, quasi-steady crack growth, Int J Fracture 72(3) 197-221 (1995), 6A646
Ductile crack initiation in steels, Acta Mat 44(2) 831-843 (Feb 1996), 6A647
Ductile fracture by vacancy condensation in FCC single crystals, Acta Mat 44(2) 427-436 (Feb 1996), 6A648
Exact solutions of elastic-plastic crack line field for mode II plane stress crack, Appl Math Mech 16(10) 977-984 (Oct 1995), 6A649
Fracture behavior of a high strength medium carbon low alloy steel, Eng Fracture Mech 53(2) 303-308 (Jan 1996), 6A650
Gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials, Comput Mech 17(1-2) 130-141 (Dec 1995), 6A651
Influence of state of stress on mixed mode stable crack growth through D16AT aluminum alloy, Int J Fracture 72(3) 241-258 (1995), 6A652
Tearing modulus, J-integral, CTOA and crack profile shape obtained from the load-displacement curve only, Eng Fracture Mech 53(2) 263-277 (Jan 1996), 6A653
Transient effect on ideally plastic stationary crack-tip fields, Eng Fracture Mech 53(2) 239-249 (Jan 1996), 6A654
Use of the stretch zone for the characterization of ductile fracture, J Mat Processing Tech 54(1-4) 109-113 (Oct 1995), 6A655
Analytical and experimental evaluation of cold-working process for strain hardening materials, Eng Fracture Mech 53(3) 371-385 (Feb 1996), 7A537
Competing risks models for fracture in the ductile to brittle transition temperature region, Int J Fracture 73(3) 201-212 (1995), 7A799
Determination of stress concentrator opening displacement, Eng Fracture Mech 53(3) 433-439 (Feb 1996), 7A819
Effect of several variables on J-COD relationship and plastic rotational factor r_p, Eng Fracture Mech 53(3) 473-480 (Feb 1996), 7A820
Experimental study of distribution of plastic deformations around the crack Apex under statical loading, Prikl Mekh (Appl Mech) 30(11) 69-75 (1994), 7A821
Modeling of hydrogen transport and elastically accommodated hydride formation near a crack tip, J Mech Phys Solids 44(2) 179-205 (Feb 1996), 7A822
Plastic deformation of fracture surface contacts in fatigue, Eng Fracture Mech 53(3) 441-448 (Feb 1996), 7A823
Simple formulas for stress near the crack tip in a hardening material (French), Rev Francaise Mec 0(4) 299-307 (1995), 7A824
Supplementary study of anisotropic plastic fields at a rapidly propagating plane-stress crack-tip - I, Appl Math Mech 16(11) 1105-1115 (Nov 1995), 7A825
Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409 (Mat Res Soc, Pittsburgh PA, 1996) 8N15
Stress singularities at triple junctions with freely sliding grains, Int J Solids Struct 33(11) 1535-1541 (May 1996), 8A445
Crack initiation load characterization using the critical plastic energy, Eng Fracture Mech 53(4) 571-580 (Mar 1996), 8A565
Delay effects in fatigue crack propagation, Int J Pressure Vessels Piping 67(1) 1-5 (1996), 8A570
Analysis of deformation and fracture for cracked specimen of ductile steel, Eng Fracture Mech 53(4) 625-632 (Mar 1996), 8A626
Assessment of weld mismatching, Eng Fracture Mech 53(4) 581-592 (Mar 1996), 8A627
Dislocation emission from crack tips as a variational problem of the crack energy, J Mech Phys Solids 44(3) 413-437 (Mar 1996), 8A628
Ductile damage model corresponding to the dissipation of ductility of metal, Eng Fracture Mech 53(4) 653-659 (Mar 1996), 8A629
Elastic-plastic analysis of a crack parallel to the interface, Eng Fracture Mech 53(4) 607-623 (Mar 1996), 8A630
Influence of crack depth and strength matching on deformation and plastic zone for welded joint specimen, Int J Fracture 74(1) 77-87 (1995), 8A631
Note on calibration of ductile failure damage indicators, Int J Fracture 73(4) 345-357 (1995), 8A632
Numerical investigations of 3D constraint effects on brittle fracture in SE(B) and C(T) specimens, Int J Fracture 74(2) 131-161 (1995), 8A633
Numerical study of ductile void growth under dynamic loading conditions, Int J Fracture 73(4) 325-343 (1995), 8A634
Two parameter fracture criterion for high strength low carbon steel, Acta Mat 44(3) 1055-1061 (Mar 1996), 8A635
Yield function for porous ductile materials, Eng Fracture Mech 53(4) 557-559 (Mar 1996), 8A636
Proceedings of a conference on cumulative damage under variable amplitude loading held at SIRIUS, April 3-7, 1995, Fatigue Fracture Eng Mat Struct 19(2-3) 141-385 (1996), 9A767
Damage zones in strain-hardening materials, Mech Mat 22(2) 131-147 (Feb 1996), 9A785
Elastic-plastic analysis of crack propagation with branching, Eng Comput 12(7) 665-681 (Oct 1995), 9A810
Integral relations in the crack apex vicinity, Prikl Mekh (Appl Mech) 31(8) 11-18 (1995), 9A811
Simple elastic cell model of cleavage fracture in the presence of dislocation plasticity, Acta Mat 44(4) 1287-1291 (Apr 1996), 9A812
Theoretical approach for evaluating the plane strain fracture toughness of ductile metals, Eng Fracture Mech 53(6) 975-990 (Apr 1996), 9A813
Fast crack propagation in viscoplastic materials, Arch Mech 47(5) 899-914 (1995), 9A840
COD of off-centered cracks in pipes under bending load: A geometrical solution, Int J Fracture 75(1) 1-18 (1995), 10A780

Computer simulation of plastic damage evolution in cracked body of low-carbon steel, Eng Fracture Mech 54(1) 141-146 (May 1996), 10A781
Effect of rest time after application of single overload cycle on fatigue life, Eng Fracture Mech 54(1) 147-153 (May 1996), 10A782
Investigation of the role of residual stresses in the warm prestress effect - Part I: Experimental, Fatigue Fracture Eng Mat Struct 19(4) 485-500 (1996), 10A783
Investigation of the role of residual stresses in the warm prestress effect - Part II: Analysis, Fatigue Fracture Eng Mat Struct 19(4) 501-513 (1996), 10A784
Predicting the effects of crack tip constraint on material resistance curves using ductile damage theory, Fatigue Fracture Eng Mat Struct 19(4) 461-474 (1996), 10A785
Shakedown of a cracked body consisting of kinematic hardening material, Eng Fracture Mech 54(1) 107-112 (May 1996), 10A786
Verification of a cohesive zone model for ductile fracture, J Eng Mat Tech 118(2) 192-200 (Apr 1996), 10A787
Self-consistent approximation for crack bridging by elastic-perfectly plastic ligaments, Mech Mat 22(4) 249-263 (Apr 1996), 11A667
J-integral solutions for shallow crack geometries under combined tension and bending, Fatigue Fracture Eng Mat Struct 19(5) 611-622 (1996), 11A669
Modeling study of the effect of stress state on void linking during ductile fracture, Acta Mat 44(6) 2201-2210 (Jun 1996), 11A670
Sensitivity analysis of material parameters for the Gurson constitutive model, Fatigue Fracture Eng Mat Struct 19(5) 561-570 (1996), 11A671
Constraint effects on fracture toughness of impact-loaded, precracked Charpy specimens, Nucl Eng Des 162(2-3) 145-158 (Apr 1996), 11A1419
Elastic-Plastic Fracture Laboratory Test Procedures, Manual 27 (ASTM, 1996) 12N24
Catastrophe analysis on the stability of the crack growth in three-point bending specimens, Acta Mech Solida Sinica 9(2) 179-183 (1996), 12A741
Computational framework for a class of fully coupled models for elastoplastic damage of finite strains with reference to the linearization aspects, Comput Methods Appl Mech Eng 130(1-2) 179-193 (Mar 1996), 12A742
Elastic-plastic stress-strain calculation in notched bodies subjected to non-proportional loading, Int J Fracture 76(1) 39-60 (1995), 12A743
Fracture analysis for pipes containing a finite-length axial part-through crack, Int J Pressure Vessels Piping 68(2) 127-133 (1996), 12A744
Interface cracking phenomena in constrained metal layers, Acta Mat 44(7) 2963-2971 (Jul 1996), 12A745
Plastic zones in an orthotropic plate of finite width containing a Griffith crack, Int J Fracture 75(4) 307-322 (1995), 12A746
Prediction of fracture resistance curves from tensile data for carbon steel piping materials, Int J Pressure Vessels Piping 68(2) 209-217 (1996), 12A747
Three-dimensional crack-tip fields in four-point-bending copper single-crystal specimens, J Mech Phys Solids 44(6) 863-904 (Jun 1996), 12A748
Use of constraint-modified failure assessment lines in failure assessment diagrams, Int J Fracture 75(4) 323-334 (1995), 12A749

276J. Composites

Characterization of flexural toughness in fiber reinforced concretes, Cement & Concrete Composites 17(3) 239-254 (1995), 1A531
Evaluation of first ply failure in a 3D load space, J Composite Mat 29(12) 1649-1678 (1995), 1A539
Modeling the effect of fiber breakage on the elastic properties of short-fiber composites, Composites Sci Tech 54(2) 113-122 (1995), 1A543
Prediction of impact damage thresholds of glass fiber reinforced laminates, Composite Struct 31(3) 185-193 (1995), 1A544
Interlaminar failure and buckling of double-curved laminated composite shells, Mech of Composite Mat T31(3) 330-340 (Jun 1995), 1A665
Analysis of energy release rate for cracked laminates, Appl Math Mech 16(6) 565-581 (Jun 1995), 1A804
Anisotropic analysis of cracks in composite laminates using the Dual BEM, Composite Struct 31(3) 229-233 (31 1995), 1A805
Application of the biaxial Iosipescu method to mixed-mode fracture of unidirectional composites, Int J Fracture 71(2) 131-150 (1995), 1A806
Asymptotic stresses around a crack tip at the interface between planar or cylindrical bodies, Int J Fracture 71(2) 151-164 (1995), 1A807
Composite panels containing multiple through-the-width delaminations and subjected to compression - Part I: Analysis, Composite Struct 31(4) 273-296 (1995), 1A808
Composite panels containing multiple through-the-width delaminations and subjected to compression - Part II: Experiments and verification, Composite Struct 31(4) 297-314 (1995), 1A809
Compressive behavior of a titanium metal matrix composite with a circular hole, Composite Struct 31(4) 315-324 (1995), 1A810
Deformation processes in the vicinity of metal-ceramic interfaces, Acta Metall Mat 43(9) 3283-3293 (Sep 1995), 1A811
Effect of geometry on the properties of a dense alumina-carbon and epoxy laminate, Acta Metall Mat 43(9) 3261-3273 (Sep 1995), 1A812
Effective elastic moduli in fiber reinforced composite with circular-arc shaped interfacial cracks, Int J Fracture 71(1) 85-93 (1995), 1A813
Fracture resistance measurement method for bimaterial interfaces having large debond energy, Acta Metall Mat 43(9) 3459-3465 (Sep 1995), 1A814
Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part I: Experimental results, Composites Sci Tech 54(2) 133-145 (1995), 1A815
Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, Composites Sci Tech 54(2) 147-159 (1995), 1A816
Near-tip dual-length scale mechanics of mode I cracking in laminate brittle matrix composites, Int J Fracture 70(4) 275-304 (1995), 1A817
Notched strength of thermoplastic woven fabric composites, J Composite Mat 29(12) 1544-1564 (1995), 1A818
Plasticity and fracture of in-situ composites, Fatigue Fracture Eng Mat Struct 18(7-8) 747-753 (Aug 1995), 1A819
Quasi-static modeling of delamination crack propagation in laminates subjected to low-velocity impact, Composites Sci Tech 54(2) 185-191 (1995), 1A820
Scaling and multifractal character of matrix cracking in carbon fiber-reinforced cross-ply laminates, Mech Composite Mat Struct 2(3) 243-255 (Sep 1995), 1A821
Structure and fracture behavior of t-ZrO_2/Al_2O_3 lamellar composites, Fatigue Fracture Eng Mat Struct 18(7-8) 897-904 (Aug 1995), 1A822
Thermomechanical fatigue cracking in fiber reinforced metal-matrix composites, J Mech Phys Solids 43(9) 1433-1460 (Sep 1995), 1A823
Weibull statistics of fiber bundle failure using mechanical and acoustic emission testing: The influence of interfiber friction, Composites 26(10) 699-705 (Oct 1995), 1A824
Crushing mechanism of carbon fiber-PEEK composite tubes, Composites 26(11) 749-755 (Nov 1995), 2A417
Eighth International conference on composite structures, Composite Struct 32(1-4) 1-680 (1995), 2A419
Cyclic fatigue and fracture behavior of a titanium alloy metal matrix composite, Eng Fracture Mech 52(3) 467-491 (Oct 1995), 2A576
Stochastic modeling of fracture processes in fiber reinforced composites, AIAA J 33(9) 1689-1697 (Sep 1995), 2A604
Bending failure of aramid fiber-reinforced composite, Composites 26(11) 757-765 (Nov 1995), 2A640
Bimaterial plane with elliptic hole under uniform tension normal to the interface, Int J Fracture 71(4) 293-310 (1995), 2A641
Comparison of the fracture and failure behavior of polypropylene composites reinforced by long glass fibers and by glass mats, Composites Sci Tech 54(3) 287-298 (1995), 2A642
Cracks at mortar-stone interfaces, Acta Metall Mat 43(10) 3701-3707 (Oct 1995), 2A643
Damage mechanisms in composite laminates impacted by a flat-ended impactor, Composites Sci Tech 54(3) 267-273 (1995), 2A644
Damaged elastoplastic behavior of $[+\psi, -\psi]_n$ fiber-reinforced composite laminates in biaxial loading, Composites Sci Tech 54(3) 275-285 (1995), 2A645
Effect of interlayer modulus on fracture mode ratio for interleaved composite laminates, Eng Fracture Mech 52(2) 243-253 (Sep 1995), 2A646
Failure envelopes for notched CSM laminates under biaxial loading, Composites 26(11) 739-747 (Nov 1995), 2A647
Failure in carbon-polyimide laminates under biaxial compression, J Composite Mat 29(14) 1850-1872 (1995), 2A648
Fiber damage during the consolidation of PVD Ti-6Al-4V coated Nextel 610™ alumina fibers, Acta Metall Mat 43(10) 3605-3619 (Oct 1995), 2A649
Fiber interactions in the multi-fiber composite fragmentation test, Composites Sci Tech 54(3) 251-266 (1995), 2A650
Fracture parameters for interfacial cracks: An experimental-FE study of crack tip fields and crack initation toughness, Int J Fracture 71(4) 345-363 (1995), 2A651
Interface crack between elastic materials when there is dry friction, J Appl Math Mech 59(2) 273-287 (1995), 2A652
Interfacial circular crack in cylindrically anisotropic composites under antiplane shear, Int J Solids Struct 32(24) 3603-3628 (Dec 1995), 2A653
Prediction of the transversal strength of unidirectional composites under combined loading (Russian), Mech of Composite Mat T31(4) 473-481 (Aug 1995), 2A654
Quasi-static fracture behavior of an aluminum alloy metal-matrix composite, Composites Sci Tech 54(3) 307-315 (1995), 2A655
Scale effect in the thin layer delamination problem, Int J Fracture 71(3) 247-271 (1995), 2A656
Solutions of thermoelastic crack problems in bonded dissimilar media or half-plane medium, Int J Solids Struct 32(24) 3537-3554 (Dec 1995), 2A657
Estimation of fiber and interfacial shear strength by using a single-fiber composite, Composites Sci Tech 55(1) 33-39 (1995), 3A496
Residual stresses in microcomposites and macrocomposites, J Adhesion 52(1-4) 131-148 (1995), 3A506
Theoretical and experimental investigation of dynamic delamination in composites, Fatigue Fracture Eng Mat Struct 18(10) 1133-1154 (Oct 1995), 3A509
Bolted connections for fiber-reinforced composite structural members: Experimental program, J Mat in Civil Eng 7(4) 223-231 (Nov 1995), 3A510
Bolted connections for fiber-reinforced composite structural members: Analytical model and design recommendations, J Mat in Civil Eng 7(4) 232-238 (Nov 1995), 3A511
Identifying delamination in composite beams using built-in piezoelectrics - Part I: Experiments and analysis, J Intelligent Mat Syst Struct 6(5) 649-663 (Sep 1995), 3A669
Identifying delamination in composite beams using built-in piezoelectrics - Part II: An identification method, J Intelligent Mat Syst Struct 6(5) 664-672 (Sep 1995), 3A670
Anisotropic damage of fiber-reinforced MMC using overall damage analysis, J Eng Mech 121(11) 1209-1217 (Nov 1995), 3A690
Axisymmetric crack problem in bonded materials with a graded interfacial region, Int J Solids Struct 33(2) 193-219 (Jan 1996), 3A691
Compressive failure of composites - Part I: Testing and micromechanical theories, Prog Aerospace Sci 32(1) 1-42 (1996), 3A692
Compressive failure of composites - Part II: Experimental studies, Prog Aerospace Sci 32(1) 43-78 (1996), 3A693
Fracture modeling of brittle-matrix composites with spatially dependent crack bridging, Fatigue Fracture Eng Mat Struct 18(10) 1213-1230 (Oct 1995), 3A694
Influence of matrix properties on fragmentation test, J Adhesion 52(1-4) 209-222 (1995), 3A695
Influence of reinforcement fracture on the cyclic stress-strain curve of metal-matrix composites, Acta Metall Mat 43(11) 3959-3969 (Nov 1995), 3A696
Interaction between transverse cracks and delamination during damage progress in CFRP cross-ply laminates, Composites Sci Tech 54(4) 395-404 (1995), 3A697
Interfacial shear strength of oxide films on carbon fibers formed by the sol-gel process, J Adhesion 52(1-4) 65-79 (1995), 3A698
Mixed-mode fracture performance of fiber reinforced concrete under impact loading, Mat Struct 28(182) 473-478 (Oct 1995), 3A699
Models of the initiation of macroscopic cracks in particlate elastomeric composites, J Machinery Manuf Reliab 1 33-37 (1995), 3A700
Stochastic damage accumulation model for composite laminates, J Eng Mech 121(11) 1244-1251 (Nov 1995), 3A701
Tensile impact delamination of a cross-ply interface studied by moire photography, Fatigue Fracture Eng Mat Struct 18(10) 1101-1114 (Oct 1995), 3A702
Three-dimensional analysis of center-delaminated unidirectional and multidirectional single-leg bending specimens, Composites Sci Tech 54(4) 385-394 (1995), 3A703
Time dependent crack growth in ceramic matrix composites with creeping fibers, Acta Metall Mat 43(11) 3927-3936 (Nov 1995), 3A704
Feasibility of detecting pre-cracking fatigue damage in metal-matrix composites by ultrasonic techniques, Composites Sci Tech 55(1) 63-73 (1995), 3A734
Comparative study of dynamic and static delamination behavior of carbon fiber-epoxy composite laminates, Composites 26(12) 849-858 (Dec 1995), 4A482
Dynamic matrix cracking in fiber reinforced ceramics, J Mech Phys Solids 43(12) 1875-1886 (Dec 1995), 4A491
Improved method for testing unidirectional FRP composites in tension, Composite Struct 33(1) 27-34 (1995), 4A497
Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, Int J Solids Struct 33(3) 375-398 (Jan 1996), 4A509
Three dimensional analysis and resulting design recommendations for unidirectional and multidirectional end-notched flexure tests, J Composite Mat 29(16) 2108-2133 (1995), 4A511
Effective moduli of unidirectional fiber composites containing radial cracking and interfacial debonding, Int J Damage Mech 4(4) 380-401 (Oct 1995), 4A514
Quasi-empirical approach to shear strength of ferrocement trough section elements, J Ferrocement 25(4) 361-376 (Oct 1995), 4A526
Skin-stiffener interface stresses in tapered composite panel, Composite Struct 33(1) 1-6 (1995), 4A527
Microscopic fatigue damage progress in CFRP cross-ply laminates, Composites 26(12) 859-867 (Dec 1995), 4A672
Analysis of an axisymmetric matrix crack with interfacial debond, Int J Damage Mech 4(4) 319-337 (Oct 1995), 4A717
Antiplane problems of collinear rigid line inclusions in dissimilar media, Eng Fracture Mech 52(5) 907-916 (Nov 1995), 4A718
Assessment of failure criteria for fiber-reinforced composite laminates, Int J Fatigue 17(7) 513-518 (Oct 1995), 4A719
Combined effects of the fiber distribution and of the fiber matrix of interphase matrix transverse modulus ratio on the possible fracture modes of unidirectional composites submitted to a transverse loading, Acta Metall Mat 43(12) 4247-4266 (Dec 1995), 4A720
Computational methodology to predict damage growth in unidirectional composites - I: Theoretical formulation and numerical implementation, Eng Fracture Mech 52(5) 937-951 (Nov 1995), 4A721
Computational methodology to predict damage growth unidirectional composites - II: Case studies, Eng Fracture Mech 52(5) 953-970 (Nov 1995), 4A722
Crack front trapping in transformation-toughened ceramics, Int J Fracture 72(2) 171-181 (1995), 4A723
Crack problem of two bonded half orthotropic planes materials, Eng Fracture Mech 52(5) 895-900 (Nov 1995), 4A724
Damage-plasticity in a uniaxially loaded composite lamina: Overall analysis, Int J Solids Struct 33(4) 555-576 (Feb 1996), 4A725
Delamination buckling and growth of composite laminated plates with transverse shear deformation, J Composite Mat 29(15) 2047-2068 (1995), 4A726
Delamination fracture criteria for composite laminates, J Composite Mat 29(15) 1962-1987 (1995), 4A727
Effect of spatial distribution on the effective behavior of composite materials and cracked media, J Mech Phys Solids 43(12) 1919-1951 (Dec 1995), 4A728
Experimental damage investigation of a SiC-Ti aluminide metal matrix composite, Int J Damage Mech 4(4) 338-361 (Oct 1995), 4A729
Fatigue delamination growth in carbon fiber-reinforced aluminum laminates, Composites Part A Appl Sci and Manuf 27A(1) 9-15 (1996), 4A730
Fracture process zone concept and delamination of composite laminates, Theor Appl Fracture Mech 24(1) 57-64 (Dec 1995), 4A731
Low-energy Charpy impact of interleaved CF-EP laminates - Part I: Effects of interleaving on stiffness degradation, Appl Composite Mat 2(2) 119-133 (1995), 4A732
Mechanical behavior of an alumina carbon-epoxy laminate, Acta Metall Mat 43(12) 4483-4493 (Dec 1995), 4A733
Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, Mech Mat 21(4) 303-312 (Nov 1995), 4A734
Modeling the effect of cracks on interlaminar shear strength, Composites Part A Appl Sci and Manuf 27A(1) 17-24 (1996), 4A735
Periodic cracking of functionally graded coatings, Int J Eng Sci 33(15) 2179-2195 (Dec 1995), 4A736
Singular antiplane stress fields for bonded and disbonded three-material junctions, Eng Fracture Mech 52(5) 821-832 (Nov 1995), 4A737
Stress effects of inhomogeneous expansion-controlled matrices in continuous fiber composites, J Composite Mat 29(15) 2003-2024 (1995), 4A738
Toughness of interfaces from initial fiber-matrix debonding in a single fiber composite fragmentation test, Appl Composite Mat 2(2) 107-117 (1995), 4A739
Fatigue behavior of mechanically fastened joints in composite materials, Composite Struct 33(2) 87-94 (1995), 4A766
Acoustic emission study of failure mechanisms in ceramic matrix composite under longitudinal tensile loading, J Composite Mat 29(15) 1946-1961 (1995), 4A775
Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, Finite Elements Anal Des 21(1-2) 21-44 (Oct 1995), 5A33
Nonlinear progressive failure analysis of laminated composite plates, Int J Non-Linear Mech 30(5) 629-649 (Sep 1995), 5A482
Prediction of high temperature metal matrix structural material failure using a massively parallel computer, Comput Syst Eng 6(4) 577-586 (Dec 1995), 5A483
Stress analysis of plates with bonded unbalanced laminates, Composite Struct 33(3) 173-190 (1995), 5A507

Effects of processing temperature and layup on matrix cracking, J Reinforced Plastics Composites 14(12) 1252-1258 (Dec 1995), 5A582

Fatigue crack tip opening behavior in particulate reinforced Al-alloy composites, Acta Mat 44(1) 79-91 (Jan 1996), 5A594

Statistical prediction of fatigue failure of fiber reinforced composite materials, Appl Composite Mat 2(3) 153-173 (1995), 5A615

Application of SPSLIFE to preliminary design evaluation and life assessment of CSGT ecomponents, J Eng Gas Turbines Power 117(3) 424-431 (Jul 1995), 5A633

Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, J Eng Gas Turbines Power 117(3) 417-423 (Jul 1995), 5A634

Assessment of notches in ceramic components, J Eng Gas Turbines Power 117(3) 413-416 (Jul 1995), 5A635

Boundary value problems in fracture of elastic composites, European J Appl Math 6(6) 591-610 (Dec 1995), 5A636

Classification of crack-tip isochromatics in orthotropic composites, Eng Fracture Mech 53(1) 1-16 (Jan 1996), 5A637

Crack phases of particulate-reinforced metal matrix composites, Fatigue Fracture Eng Mat Struct 18(11) 1299-1309 (Nov 1995), 5A638

Damage by the cracking of silicon particles in an Al-7Si-0.4 Mg casting alloy, Acta Mat 44(1) 25-33 (Jan 1996), 5A639

Effect of state of stress on compression failure in carbon-epoxy laminates, J Eng Mat Tech 117(3) 347-350 (Jul 1995), 5A640

Effects of external loading of fiber on fiber-matrix interfacial shear strength, J Adhesion 53(1-2) 33-44 (1995), 5A641

Experimental determination of damage parameters in uniaxially-loaded metal-matrix composites using the overall approach, Int J Plasticity 11(8) 895-926 (1995), 5A642

Exsprimental determination of TSAI failure tensorial terms F_{ij} for unidirectional composite materials, Composites Sci Tech 55(2) 145-156 (1995), 5A643

Experimental techniques for the investigation of the effects of impact damage on carbon-fiber composites, Composites Sci Tech 55(2) 157-169 (1995), 5A644

Fiber-matrix bond strength of CFRP deduced from the strength transverse to the fibers, J Adhesion 53(1-2) 79-101 (1995), 5A645

Fractographic analysis of delamination within multidirectional carbon-epoxy laminates, Composites Sci Tech 55(2) 195-207 (1995), 5A646

Fracture toughness and impact behavior of glass-fiber-reinforced polyamide 6,6 injection moldings, Composites Sci Tech 55(2) 109-118 (1995), 5A647

Influence of cooling rate on interlaminar fracture properties of unidirectional commingled CF-PEEK composites, Appl Composite Mat 2(3) 135-151 (1995), 5A648

Interaction between an interface and cracks, Eng Fracture Mech 53(1) 107-117 (Jan 1996), 5A649

Mechanics of rubber-to-metal bond failure, J Adhesion 53(3-4) 183-199 (1995), 5A650

Micromechanical modeling of matrix degradation in randomly oriented discontinuous-fiber composites, Composites Sci Tech 55(2) 171-186 (1995), 5A651

Mode-I fracture behavior of adhesive joints - Part I: Relationship between fracture energy and bond thickness, J Adhesion 53(3-4) 149-162 (1995), 5A652

Mode-I fracture behavior of adhesive joints - Part II: Stress analysis and constraint parameters, J Adhesion 53(3-4) 163-172 (1995), 5A653

Non-axisymmetric matrix cracking in unidirectional brittle matrix composites, Eng Fracture Mech 53(1) 57-68 (Jan 1996), 5A654

Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, Acta Mat 44(1) 279-287 (Jan 1996), 5A655

Shearographic and holographic assessment of defective laminates with bond-lines of different elasticities, J Eng Mat Tech 117(3) 322-329 (Jul 1995), 5A656

Hybrid effect and matrix yielding at fiber breaks in hybrid composite sheets, Mech Composite Mat Struct 2(4) 275-280 (Dec 1995), 6A403

Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, Composites Sci Tech 55(3) 223-229 (1995), 6A424

Stitching vs a toughened matrix: Compression strength effects, J Composite Mat 29(18) 2464-2487 (1995), 6A436

Inclination angle effect of carbon fibers in cementitious composites, J Eng Mech 121(12) 1340-1348 (Dec 1995), 6A439

Design criteria for pseudoductile fiber-reinforced composites, J Eng Mech 122(1) 10-18 (Jan 1996), 6A445

Cavity growth in ductile particles bridging a brittle matrix crack, Int J Fracture 72(3) 277-292 (1995), 6A656

Crack-bridging force in random ductile fiber brittle matrix composites, J Eng Mech 121(12) 1315-1324 (Dec 1995), 6A657

Crack-particle interaction in a two-phase composite - Part II: Crack deflection, Int J Fracture 73(1) 81-92 (1995), 6A658

Damage-resistant alumina-based layer composites, J Mat Res 11(1) 204-210 (Jan 1996), 6A659

Determination of Mode II delamination toughness of stitched laminated composites, Composites Sci Tech 55(3) 241-253 (1995), 6A660

Effect of damage growth on the aeroelastic response of composite structures, Mech Composite Mat Struct 2(4) 329-342 (Dec 1995), 6A661

Effect of treatment conditions on the mode I delamination fracture toughness of sandwich structures, J Composite Mat 29(17) 2295-2316 (1995), 6A662

Experimental study of crack-induced dynamic damage growth in fiber composites, Mech Composite Mat Struct 2(4) 295-308 (Dec 1995), 6A663

Failure analysis of woven and braided fabric reinforced composites, J Composite Mat 29(17) 2334-2363 (1995), 6A664

Failure analysis of woven-fabric composites with molded-in holes, Composites Sci Tech 55(3) 231-239 (1995), 6A665

Finite element analysis of delamination cracks in bending of cross-ply laminates, Mech Composite Mat Struct 2(4) 281-294 (Dec 1995), 6A666

Fracture mechanics applied to glass fiber-epoxy matrix interface characterization, J Composite Mat 29(17) 2230-2253 (1995), 6A667

High temperature deformation and fracture of a fiber reinforced titanium matrix composite, Acta Mat 44(2) 683-695 (Feb 1996), 6A668

New model for interface failure in fiber-reinforced polymers, Composites Sci Tech 55(3) 269-276 (1995), 6A669

Numerical study of the compression and shear failure of woven carbon-carbon laminates, J Composite Mat 29(18) 2446-2463 (1995), 6A670

Plane solutions of interface cracks in anisotropic dissimilar media, J Eng Mech 122(1) 30-38 (Jan 1996), 6A671

Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, Mech Composite Mat Struct 2(4) 309-328 (Dec 1995), 6A687

Specialized composite plate element for problems of delamination buckling and growth, Composite Struct 34(1) 43-53 (1996), 7A43

Effect of impact and fatigue loads on the strength of plain weave carbon-epoxy composites, J Mat Processing Tech 55(2) 58-62 (Nov 1995), 7A553

Effect of testing temperature on the energy absorption behavior of carbon fiber-PEEK composite tubes, J Reinforced Plastics Composites 15(1) 30-47 (Jan 1996), 7A555

Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, Thin-Walled Struct 24(4) 335-352 (1996), 7A558

Fiber sliding model accounting for interfacial micro-dilatancy, Mech Mat 22(1) 65-84 (Jan 1996), 7A560

Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, Composites Sci Tech 55(4) 391-403 (1995), 7A565

Nonlinear dynamics of nonelastic destruction of damaged lamellar systems (Russian), Mech of Composite Mat T31(5) 640-645 (Oct 1995), 7A577

Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - I: Inner crack tip away from or terminating at the interface, Eng Fracture Mech 53(3) 457-464 (Feb 1996), 7A826

Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - II: The crack going through the bimaterial interface into the fiber, Eng Fracture Mech 53(3) 465-471 (Feb 1996), 7A827

Approximate calculation of the edge and scale effects in composite materials, J Machinery Manuf Reliab 4 49-53 (1995), 7T828

Damage to stitched GRP laminates by underwater explosion shock loading, Composites Sci Tech 55(4) 365-374 (1995), 7A829

Effect of various approximations on predicted progressive failure in plain weave composites, Composite Struct 34(1) 13-20 (1996), 7A830

Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, Composites Sci Tech 55(4) 349-363 (1995), 7A831

Fracture statistics of a unidirectional composite, Int J Fracture 73(2) 149-181 (1995), 7A832

Gradient theory of shear for composites with cracks, Mech Solids 30(4) 107-114 (1995), 7A833

Interlaminar fracture behavior of sandwich structures, Composites Part A Appl Sci and Manuf 27A(3) 165-173 (1996), 7A834

Low velocity impact damage in composite sandwich beams, Composite Struct 34(1) 21-27 (1996), 7A835

Mixed-mode fracture in an interleaved carbon-fiber-epoxy composite, Composites Sci Tech 55(4) 319-327 (1995), 7A836

Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, J Reinforced Plastics Composites 15(1) 3-15 (Jan 1996), 7A837

Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, Int J Damage Mech 5(1) 3-15 (Jan 1996), 7A838

Role of cooling pressure on interlaminar fracture properties of commingled CF-PEEK composites, Composites Part A Appl Sci and Manuf 27A(3) 175-182 (1996), 7A839

Size effects in interlaminar tensile and shear strength of unidirectional glass fiber-epoxy, J Reinforced Plastics Composites 15(1) 2-15 (Jan 1996), 7A840

Stressed state of a laminated elastic composite with a thin linear inclusion, J Appl Math Mech 59(4) 671-676 (1995), 7A841

Damage tolerance of thick hybrid composite plate containing a local hemispherical damage, Composite Struct 33(4) 227-236 (1995), 7A850

Damage tolerance of CSM laminates subject to low velocity oblique impacts, Composite Struct 34(1) 101-116 (1996), 7A869

Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, Composites Sci Tech 55(4) 405-412 (1995), 7A890

Probabilistic analysis of multi-step failure process of a laminated composite in bending, Composites Sci Tech 55(4) 413-421 (1995), 7A918

Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409 (Mat Res Soc, Pittsburgh PA, 1996) 8N15

Three-dimensional axisymmetric analysis of a cracked fiber in a transversely-isotropic elastic medium, Mech Res Commun 23(2) 171-174 (Apr 1996), 8A456

Secant moduli of a glass bead-reinforced silicone rubber specimen, J Composite Mat 30(1) 69-83 (1996), 8A470

Evaluation of chemical aging-oxidation in high-performance composites using the Vickers micro-indentation technique, J Composite Mat 30(2) 210-230 (1996), 8A472

Characterization of mixed-mode energy release rates in orthotropic materials, Proc Inst Mech Eng C 210(C1) 33-42 (1996), 8A637

Cracks in fibrous composites: Determination of the stress intensity factor by the polarized-optical method (Russian), Mech of Composite Mat T31(6) 769-775 (Dec 1995), 8A638

Effect of fatigue damage in woven composites on thermomechanical properties and residual compressive strength, J Composite Mat 30(2) 164-189 (1996), 8A639

Effect of interfacial strength on erosion behavior of FRPs, J Composite Mat 30(1) 35-50 (1996), 8A640

Effect of reinforcement morphology on matrix microcracking, Acta Mat 44(3) 915-925 (Mar 1996), 8A641

Effect of transverse cracking on stiffness reduction of cross-ply laminates, Appl Composite Mat 2(4) 217-231 (1995), 8A642

Effective crack growth and residual strength of composite laminates with a sharp notch, J Composite Mat 30(3) 333-357 (1996), 8A643

Effective crack growth model for residual strength evaluation of composite laminates with circular holes, J Composite Mat 30(2) 142-163 (1996), 8A644

Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, J Reinforced Plastics Composites 15(2) 141-173 (Feb 1996), 8A645

Experimental evaluation of the strength distribution of E-glass fibers at high strain rates, Appl Composite Mat 2(4) 257-264 (1995), 8A646

Experimental investigation of stiffness reduction and cracks geometry in a unidirectional brittle matrix composite, J Composite Mat 30(3) 282-308 (1996), 8A647

Failure analysis of bolted composite joints exhibiting in-plane failure modes, J Composite Mat 30(3) 358-383 (1996), 8A648

Influence of cooling conditions on the mechanical properties commingled yarn composites, J Thermoplastic Composite Mat 9(1) 76-89 (Jan 1996), 8A649

Influence of two-stage loading on the longitudinal splitting of unidirectional carbon-epoxy laminates, Fatigue Fracture Eng Mat Struct 19(1) 65-74 (1996), 8A650

Interlaminar fracture analysis of composite DCB specimens, Int J Fracture 74(3) 277-287 (1995), 8A651

Interlaminar fracture behavior of carbon fiber reinforced plastics at low temperatures, Proc Inst Mech Eng J Aerospace Eng 210(G1) 1-7 (1996), 8A652

Law of the transverse matrix crack growth in brittle polymeric matrix composite laminates under static loadings, J Composite Mat 30(3) 384-405 (1996), 8A653

Local fracture and crack growth behavior in a particulate composite material, J Reinforced Plastics Composites 15(2) 196-207 (Feb 1996), 8A654

Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, Acta Mat 44(3) 899-914 (Mar 1996), 8A655

Optimization of the ultrasonic welding of PEEK-carbon composites, J Reinforced Plastics Composites 15(2) 174-182 (Feb 1996), 8A656

Prediction of thermal cycling-induced matrix cracking, J Reinforced Plastics Composites 15(2) 124-140 (Feb 1996), 8A657

Response of SiC-Ti under combined loading - Part III: Microstructural evaluation, J Composite Mat 30(1) 84-108 (1996), 8A658

Stochastic damage evolution modeling in laminates, J Thermoplastic Composite Mat 9(1) 21-34 (Jan 1996), 8A659

Thin plate bending of dissimilar half-planes with interface debonding emanating from an elliptical hole, Int J Fracture 74(3) 199-218 (1995), 8A660

Through-the-thickness tension strength of 3D braided composites, J Composite Mat 30(1) 51-68 (1996), 8A661

Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), Mech of Composite Mat T31(6) 792-796 (Dec 1995), 8A699

FEM anlaysis of mode II crack in a laminated beam (Chinese), J Comput Struct Mech Appl 12(3) 261-266 (Aug 1995), 9A26

Modeling progressive damage in composites: A shear deformable element for ABAQUS, Composite Struct 34(2) 119-128 (1996), 9A77

Characterization of low-energy impact damages in composites, J Reinforced Plastics Composites 15(3) 267-282 (Mar 1996), 9A286

Effects of notch root radius on crack initiation and growth toughnesses of a cross-ply Ti-6Al-4V-SiC composite, Acta Mat 44(5) 1831-1838 (May 1996), 9A529

Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, Composites Part A Appl Sci and Manuf 27A(5) 357-364 (1996), 9A531

Thick-section AS4-graphite-E-glass-PPS hybrid composites - Part I: Tensile behavior, Composites Sci Tech 56(2) 181-192 (1996), 9A536

Analytical-generalized variational method of multi-region on solution of large scale delamination of laminate (Chinese), J Comput Struct Mech Appl 12(2) 152-159 (May 1995), 9A538

Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), J Comput Struct Mech Appl 12(2) 143-151 (May 1995), 9A636

Analysis of complex stress intensities for cracked laminates, Appl Math Mech 17(2) 119-132 (Feb 1996), 9A814

Crack tip damage development and crack growth resistance in particulate reinforced metal matrix composites, Eng Fracture Mech 53(6) 873-895 (Apr 1996), 9A815

FE-simulation of crack paths in the real microstructure of an Al(6061)-SiC composite, Acta Mat 44(5) 1765-1779 (May 1996), 9A816

Fracture of knitted randomly-oriented short-fiber composite, Int J Fracture 74(4) 363-381 (1995), 9A817

Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, Composites Sci Tech 56(1) 37-53 (1996), 9A818

Modifying stacking-sequence design to delay delamination and matrix cracking in laminated composites: The multi-delamination-interface design, J Reinforced Plastics Composites 15(3) 230-248 (Mar 1996), 9A819

Phenomena of cracks perpendicular to an interface between dissimilar orthotropic materials, J Appl Mech 63(1) 190-203 (Mar 1996), 9A820

Prediction of the fracture strength of notched continuous fiber-reinforced laminates by interlaminar crack extension analysis, Composites Sci Tech 56(1) 11-21 (1996), 9A821

Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite, Eng Fracture Mech 53(6) 897-910 (Apr 1996), 9A822

Re-examination of the analysis of in-plane matrix failures in fibrous composite laminates, Composites Sci Tech 56(2) 107-121 (1996), 9A823

Reduction in interlaminar shear strength by discrete and distributed voids, Composites Sci Tech 56(1) 93-101 (1996), 9A824

Ultimate tensile strength of composites exhibiting fiber fragmentation, Composites Sci Tech 56(1) 31-35 (1996), 9A825

Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, Arch Mech 48(2) 245-264 (1996), 10A578

Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, Arch Mech 48(2) 265-280 (1996), 10A579
Analysis of local delaminations caused by angle ply matrix cracks, J Composite Mat 30(4) 418-440 (1996), 10A788
Comparative study of stresses near crack tip for layered and homogeneous models of composite, Int J Damage Mech 5(2) 171-189 (Apr 1996), 10A789
Consolidation and interlaminar fracture properties of unidirectional commingled CF-PEEK composites, J Thermoplastic Composite Mat 9(2) 129-150 (Apr 1996), 10A790
Crack problem of a fiber-matrix composite with a nonhomogeneous interfacial zone under torsional loading - Part I: A cylindrical crack in the interfacial zone, Eng Fracture Mech 54(1) 63-69 (May 1996), 10A791
Elasticity and fracture in particulate composites with strong and degraded interfaces, J Mat Res 11(5) 1293-1304 (May 1996), 10A792
Failure of notched CFRP laminates due to fiber microbuckling: A topical review, J Mech Behavior Mat 6(4) 309-330 (1996), 10A793
Fatigue cracking in fiber-reinforced metal matrix composites under mechanical and thermal loads, J Eng Gas Turbines Power 118(2) 416-423 (Apr 1996), 10A794
Growth behavior of internal delaminations in composite beam-plates under compression: Effect of the end conditions, Int J Fracture 75(1) 49-67 (1995), 10A795
Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, Int J Damage Mech 5(2) 150-170 (Apr 1996), 10A796
Measurement of energy release rates for delaminations in composite materials, Exp Mech 36(1) 55-63 (Mar 1996), 10A797
Moisture-induced degradation of glass-epoxy filament-wound composite tubes, J Thermoplastic Composite Mat 9(2) 118-128 (Apr 1996), 10A798
Multiple delaminations and their severity in circular axisymmetric plates subjected to transverse loading, J Composite Mat 30(4) 441-453 (1996), 10A799
Notched strength and effective crack growth in woven fabric composite laminates with circular holes, J Reinforced Plastics Composites 15(4) 344-359 (Apr 1996), 10A800
Ply-level failure analysis of thick-section composite structures based on "smeared" FE results, J Thermoplastic Composite Mat 9(2) 108-117 (Apr 1996), 10A801
Progressive failure analysis of laminated composite beams, J Composite Mat 30(5) 536-560 (1996), 10A802
Stiffness loss of composite laminates with transverse cracks under Mode I and Mode III loading, Int J Damage Mech 5(2) 190-215 (Apr 1996), 10A803
Strain energy release rate formulae for skin-stiffener debond modeled with plate elements, Eng Fracture Mech 54(2) 211-228 (May 1996), 10A804
Subcritical crack growth life prediction for ceramic components of advanced heat engines, J Eng Gas Turbines Power 118(2) 240-245 (Apr 1996), 10A805
Evaluation of adhesive strength of resin liner film, JSME Int J Ser A 39(2) 252-258 (Apr 1996), 10A1038
Low velocity impact damage in filament-wound composite pressure bottles, J Composite Tech Res 18(2) 109-117 (Apr 1996), 11A186
Interfacial debonding in laminated titanium matrix composites, Mech Mat 22(4) 279-290 (Apr 1996), 11A488
Strength and stiffness of fiber-reinforced plastic plates, Proc Inst Civl Eng Struct Build 116(2) 204-220 (May 1996), 11A518
Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, Composites Part A Appl Sci and Manuf 27A(6) 493-502 (1996), 11A631
Plastic damage constitutive model for composite materials, Int J Solids Struct 33(17) 2501-2518 (Jul 1996), 11A660
Bonded boron-epoxy composite repair and reinforcement of cracked aluminum structures, Composite Struct 34(2) 339-347 (1996), 11A672
Comparison of shear-lag theory and continuum fracture mechanics for modeling fiber and matrix stresses in an elastic cracked composite lamina, Int J Solids Struct 33(18) 2543-2574 (Jul 1996), 11A673
Crack-wake interfacial debonding criteria for fiber-reinforced ceramic composites, Acta Mat 44(6) 2211-2216 (Jun 1996), 11A674
Damage tolerance predictions for stiffened composite panels - Part II: Application of a failure criteria, J Composite Tech Res 18(2) 102-108 (Apr 1996), 11A675
Damage tolerance predictions for stiffened composite panels - Part I: Strain field predictions, J Composite Tech Res 18(1) 47-56 (Jan 1996), 11A676
Delamination characteristics of double-cantilever beam and end-notched flexure composite specimens, Composites Sci Tech 56(4) 451-459 (1996), 11A677
Determination of Mode III fracture toughness in thick composite laminates, Composites Sci Tech 56(4) 489-499 (1996), 11A678
Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, Thin-Walled Struct 25(4) 269-295 (1996), 11A679
Evaluation of mode-II fracture energy of adhesive joints with different bond thickness, J Adhesion 56(1-4) 171-186 (1996), 11A680
Fracture and fatigue crack growth behavior of SiC_w/2124A1 composites, J Composite Tech Res 18(1) 30-37 (Jan 1996), 11A681
In situ damage model observation and failure in model laminates containing planar yarn crimping of woven composites, Mech Composite Mat Struct 3(2) 101-117 (Jun 1996), 11A682
Measurement of mixed-mode delamination fracture toughness of unidirectional glass-epoxy composites with mixed-mode bending apparatus, Composites Sci Tech 56(4) 439-449 (1996), 11A683
Mechanisms and quantification of spalling failure in laminated composites under shock loading, J Composite Mat 30(6) 722-747 (1996), 11A684
Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, J Composite Mat 30(6) 650-661 (1996), 11A685
Strength and damage mechanisms of notched 2D triaxial braided textile composites and tape equivalents under tension, J Composite Tech Res 18(1) 38-46 (Jan 1996), 11A686
Study of the failure behavior of key-lock joints in glass fiber reinforced plastic pipework, Composites Part A Appl Sci and Manuf 27A(6) 429-435 (1996), 11A687
Study on the characteristic curve of stiffness degradation caused by transverse matrix cracking in multidirectional composite laminates, J Composite Mat 30(7) 820-838 (1996), 11A688
Tensile failure of 3D woven composites, Composites Part A Appl Sci and Manuf 27A(6) 447-458 (1996), 11A689
Damage tolerance and failure analysis of a composite geodesically stiffened compression panel, J Aircraft 33(3) 582-588 (Jun 1996), 11A790
Comparison of energy release rates in different membrane blister and peel tests, J Adhesion 56(1-4) 59-78 (1996), 11A842
Thermal residual stresses in the analysis of fiber-bridged matrix crack growth in titanium matrix composites, J Composite Tech Res 18(2) 67-79 (Apr 1996), 11A1253
Multilayer hybrid-stress FE analysis of composite laminates with delamination cracks originating from transverse cracking, Eng Fracture Mech 54(5) 713-729 (Jul 1996), 12A12
Effect of processing residual stresses on stress-strain behavior of brittle matrix composites, Adv Composites Letters 5(2) 35-41 (1996), 12A539
Effect of support matrix on interfacial shear strength determination by the bimatrix fragmentation technique, Composites Part A Appl Sci and Manuf 27A(7) 505-515 (1996), 12A540
Influence of shear properties and fiber imperfections on the compressive behavior of GFRP laminates, Appl Composite Mat 2(6) 327-342 (1995), 12A547
Analytical solution for orthotropic composite plate containing a mode I crack along principle axis, Int J Fracture 76(1) 21-38 (1995), 12A750
Bridge-toughening analysis of the penny crack in a fiber-reinforced composite with interfacial effect, Int J Fracture 75(4) 335-346 (1995), 12A751
Damage modes in impact loading of glass woven fabric composites, Adv Composites Letters 5(2) 59-63 (1996), 12A752
Failure mode in dry and hygrothermally aged short fiber-reinforced injection-molded polyarylamide composites by acoustic emission, Appl Composite Mat 2(5) 313-326 (1995), 12A753
Finite element model for delamination propagation in composites, Comput Struct 60(6) 1093-1104 (Jul 1996), 12A754
Influence of water absorption on transverse tensile properties and shear fracture toughness of glass-polypropylene, J Composite Mat 30(9) 1004-1019 (1996), 12A755
Interlaminar fracture of stitched GFRP laminates, Adv Composites Letters 5(1) 5-8 (1996), 12A756
Modeling behavior of cross-ply ceramic matrix composites under quasi-static loading, Appl Composite Mat 2(5) 265-292 (1995), 12A757
Screw dislocations near a crack penetrating through an interface, Eng Fracture Mech 54(5) 629-637 (Jul 1996), 12A758
Stress failure criterion for laminated composites, J Reinforced Plastics Composites 15(6) 563-574 (Jun 1996), 12A759
Three-dimensional failure analysis of plain weave textile composites using a global-local FEM, J Composite Mat 30(9) 984-1003 (1996), 12A760
Optimization of the adhesive joint Iosipescu specimen for pure shear test, Int J Fracture 76(1) 1-20 (1995), 12A998

276L. Other anisotropic and nonhomogeneous media

Interaction between a spherical inhomogeneity and two symmetrically placed penny-shaped cracks, Int J Fracture 70(4) 305-320 (1995), 1A472
Asymptotic crack-tip fields in anisotropic power law material under antiplane shear, Int J Fracture 71(2) 177-195 (1995), 1A825
Coating cracks in materials with general anisotropy, Int J Fracture 71(2) 99-130 (1995), 1A826
Singularities and explicit solutions of collinear crack problem in anisotropic media, Acta Mech Solida Sinica 8(2) 133-153 (1995), 1A827
Dynamic failure mechanisms of ceramic bars: Experiments and numerical simulations, J Mech Phys Solids 43(10) 1615-1638 (Oct 1995), 2A446
Failure mechanisms in wire ropes, Eng Failure Anal 2(1) 45-57 (Mar 1995), 2A459
Approach on the Mode-I fracture toughness anisotropy for materials with layered microstructures, Eng Fracture Mech 52(4) 671-683 (Nov 1995), 2A658
Crack spacing in brittle films on dissimilar planar and axisymmetric elastic substrates, Eng Fracture Mech 52(3) 513-524 (Oct 1995), 2A659
Cracking of foam insulation in a liquid methane tank, Eng Failure Anal 2(2) 159-164 (Jun 1995), 2T660
Damage healing and strengthening behavior in intelligent mullite-SiC ceramics, Fatigue Fracture Eng Mat Struct 18(9) 1019-1029 (Sep 1995), 2A661
Damage mechanics applied to elastic properties of polymers, Eng Fracture Mech 52(4) 717-729 (Nov 1995), 2A662
Driving force analysis in an infinite anisotropic plate with multiple crack interactions, Int J Fracture 71(3) 213-245 (1995), 2A663
Initial growth direction of interface crack as influenced by nearby substrate crack in dissimilar media, Theor Appl Fracture Mech 23(3) 177-185 (Sep 1995), 2A664
Maximum strain theory for mixed mode crack propagation in anisotropic solids, Eng Fracture Mech 52(3) 389-400 (Oct 1995), 2A665
Nonequilibrium statistical theory of inhomogeneous damage, Eng Fracture Mech 52(2) 289-293 (Sep 1995), 2A666
Crack nucleation in columnar ice due to elastic anisotropy and grain boundary sliding, Acta Metall Mat 43(10) 3783-3789 (Oct 1995), 2A1278
Observations of crack nucleation in columnar ice due to grain boundary sliding, Acta Metall Mat 43(10) 3791-3797 (Oct 1995), 2A1280
Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, JSME Int J Ser A 38(4) 581-587 (Oct 1995), 3A664
Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, Mat Struct 28(182) 435-443 (Oct 1995), 3A705
Rotating crack FE model for reinforced concrete structures, Comput Struct 58(1) 43-50 (Jan 1996), 3A706
Fracture mechanical behavior of aggregate-cement matrix interfaces, J Mat in Civil Eng 7(4) 199-203 (Nov 1995), 3A719
Acoustic emission source characterization in concrete under biaxial loading, Mat Struct 28(182) 444-449 (Oct 1995), 3A733
Properties of paste-rock interfaces and their influence on composite behavior, Mat Struct 28(183) 497-506 (Nov 1995), 4A480
Analytical-variational and generalized weighted conservative integral method on solution of interfacial cracks with their applications to bi-metal glued joints, Eng Fracture Mech 52(6) 1127-1137 (Dec 1995), 4A740
Asymptotic analysis of a subinterface crack in dissimilar orthotropic media, Eng Fracture Mech 52(5) 777-790 (Nov 1995), 4A741
Cohesive crack modeling of influence of sudden changes in loading rate on concrete fracture, Eng Fracture Mech 52(6) 987-997 (Dec 1995), 4A742
Mechanical response of semi-brittle ceramics subjected to tension-compression state - Part II: Description of deformation process, Int J Damage Mech 4(4) 293-318 (Oct 1995), 4A743
Nonlinear fatigue damage model for concrete in tension, Int J Damage Mech 4(4) 362-379 (Oct 1995), 4A744
Notch strength of ceramics and statistical analysis, Eng Fracture Mech 52(5) 917-921 (Nov 1995), 4A745
Issue of the interaction between multicracks near the interface, Eng Fracture Mech 53(1) 79-87 (Jan 1996), 5A657
In-plane behavior of grouted concrete masonry under biaxial tension-compression, ACI Struct J 92(6) 653-664 (Dec 1995), 5A708
Progressive failure analysis for filament wound pressure vessel, J Reinforced Plastics Composites 14(12) 1278-1306 (Dec 1995), 5A760
Edge function analysis of stress intensity factors in cracked anisotropic plates, Int J Fracture 72(4) 327-342 (1995), 6A672
Longitudinal shear of a crack in a multi-material circular cylinder, Int J Fracture 73(1) 25-38 (1995), 6A673
Stress exponents of asymptotic solutions at the notch tip in anisotropic power law material under antiplane shear, Eng Fracture Mech 53(2) 153-167 (Jan 1996), 6A674
Application of a new constant G load-jig to creep crack growth in adhesive joints, Int J Adhesion Adhesives 15(4) 225-232 (Oct 1995), 7A842
Dynamic damage constitutive model of concrete in uniaxial tension, Eng Fracture Mech 53(3) 449-455 (Feb 1996), 7A843
Elastic joints containing interfacial cracks, Eng Fracture Mech 53(3) 329-344 (Feb 1996), 7A844
Fracture toughness of concrete, Eng Fracture Mech 53(3) 425-432 (Feb 1996), 7A845
Hydraulic fracture in a transversely-isotropic poroelastic medium, J Appl Math Mech 59(4) 645-656 (1995), 7A846
Interaction between the wellbore and pre-existing fractures, Int J Fracture 73(3) 183-200 (1995), 7A847
Model of debonding instability for solid propellant rocket motor - Part I: Uniform longitudinal and transverse stress rate, Theor Appl Fracture Mech 24(2) 93-113 (Jan 1996), 7A848
Model of debonding instability for solid propellant rocket motor - Part II: Unequal longitudinal and transverse stress rate, Theor Appl Fracture Mech 24(2) 115-134 (Jan 1996), 7A849
Interfacial stress singularities in a bimaterial wedge, Int J Fracture 74(1) 63-75 (1995), 8A385
Crack extension under mixed-mode loading in an anisotropic mode-asymmetric material in respect of resistance to fracture, Fatigue Fracture Eng Mat Struct 19(1) 27-38 (1996), 8A662
Experimental study of the mechanisms of crack extension along an oxide-metal interface, Acta Mat 44(3) 863-871 (Mar 1996), 8A663
Extensions of the pseudo tractions technique for friction in cracks, circular cavities and external boundaries: Effect of the interactions on the homogenized stiffness, Int J Fracture 74(1) 1-28 (1995), 8A664
Fracture mechanics of a shaft-loaded blister of thin flexible membrane on rigid substrate, Int J Fracture 74(2) 181-197 (1995), 8A665
Interactions between inclusions and various types of cracks, Int J Fracture 73(4) 301-323 (1995), 8A666
Introduction of stress functions around a circular interface crack between dissimilar materials, Eng Fracture Mech 53(4) 661-673 (Mar 1996), 8A667
Investigation of bond between concrete and composites: Use of a peel test, J Reinforced Plastics Composites 15(2) 208-227 (Feb 1996), 8A668
Fatigue analysis and testing of adhesive joints, Eng Fracture Mech 53(6) 859-872 (Apr 1996), 9A756
Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), J Soc Mat Sci Japan 45(2) 206-211 (Feb 1996), 9A826
Innovative approach to fatigue disbond propagation in adhesive joints, J Adhesion Sci Tech 10(3) 183-198 (1996), 9A827
Interface crack in bi-piezothermoelastic media, Acta Mech Solida Sinica 9(1) 12-26 (1996), 9A828
Mode I stress singularity and intensity factor at a crack tip terminating at a transversely isotropic-orthotropic bimaterial interface, Int J Fracture 74(4) 325-340 (1995), 9A829
Periodic array of staggered planar cracks in an anisotropic elastic medium, Eng Fracture Mech 53(6) 941-946 (Apr 1996), 9A830
Antiplane interaction of an anisotropic elliptic inclusion with an arbitrarily-oriented crack, Int J Fracture 75(3) 229-245 (1995), 10A806
Comments on mixed-mode fracture in adhesive joints, Int J Fracture 75(2) 157-162 (1995), 10A807
Continuum model for dynamic damage evolution of anisotropic brittle materials, Int J Numer Methods Eng 39(9) 1535-1583 (May 1996), 10A808
Experimental analysis of an arbitrarily inclined semi-infinite crack terminated at the bimaterial interface, Exp Mech 36(1) 7-16 (Mar 1996), 10A809
Fracture toughness calibration of the Si_3N_4-Fe joint system: A parametric study, Fatigue Fracture Eng Mat Struct 19(4) 441-450 (1996), 10A810
Mechanics of dilatant transformation in one side of bimaterial interface, Eng Fracture Mech 54(2) 239-248 (May 1996), 10A811
Near-tip fields and intensity factors for interfacial cracks in dissimilar anisotropic piezoelectric media, Int J Fracture 75(2) 163-183 (1995), 10A812
Shielding due to aligned microcracks in anisotropic media, Mech Mat 22(3) 203-217 (Mar 1996), 10A813
Transient response of a finite crack in an orthotropic strip under the in-plane shear impact, Acta Mech Sinica 11(4) 349-356 (1995), 10A818
Experimental investigation of concrete fracture under uniaxial compression, Mech Cohesive-Frictional Mat 1(1) 115-127 (Jan 1996), 10A842

Crack problems in FGM layers under thermal stresses, J Thermal Stresses 19(3) 237-265 (May 1996), 10A1333
Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, Finite Elements Anal Des 22(1) 69-83 (May 1996), 11A32
Size effects on concrete fracture energy: Dimensional transition from order to disorder, Mat Struct 29(189) 259-266 (Jun 1996), 11A664
Finite-length cracks and inclusions in poroelasticity, Quart J Mech Appl Math 49(2) 311-335 (May 1996), 11A690
Plane piezoelectric problem of a loaded crack terminating at a material interface, Acta Mech Solida Sinica 9(2) 151-158 (1996), 12A639
Energy-release rate and crack kinking in anisotropic brittle solids, J Mech Phys Solids 44(6) 929-951 (Jun 1996), 12A761
Fracture resistance to the crack propagation in wood, Int J Fracture 75(4) 347-356 (1995), 12A762
Surface-subsurface damage and the fracture strength of ground ceramics, J Mat Processing Tech 57(3-4) 207-220 (Feb 1996), 12A763

276N. Crack stability and branching

Algorithm for the approximate solution of integral equations of Mellin type, Numer Math 70(4) 427-452 (Jun 1995), 1A67
Three-dimensional stability analysis of planar straight cracks propagating quasistatically under type I loading, Int J Fracture 71(4) 365-377 (1995), 2A667
Trifurcation of a crack due to plane SH-waves in an infinite elastic medium, Eng Fracture Mech 52(2) 205-213 (Sep 1995), 2A668
Fractal property of matrix cracking in GFRP cross-ply laminates, JSME Int J Ser A 38(4) 446-452 (Oct 1995), 3A707
New integration scheme for the branch crack problem, Eng Fracture Mech 52(5) 791-801 (Nov 1995), 4A746
Buckling instability of straight edge cracks, J Appl Mech 62(3) 620-625 (Sep 1995), 5A658
Fracture mechanics assessment of planar branched cracks in an equibiaxial stress field, Fatigue Fracture Eng Mat Struct 18(11) 1277-1288 (Nov 1995), 5A659
Model of a failing elastoplastic body with a crack, J Machinery Manuf Reliab 2 41-45 (1995), 5A660
Finite element analysis of delamination cracks in bending of cross-ply laminates, Mech Composite Mat Struct 2(4) 281-294 (Dec 1995), 6A666
Analysis of systems of interacting surface cracks, J Machinery Manuf Reliab 3 38-42 (1995), 6A675
Crack path in an amorphous material in the quasi static limit, J Mat Res 11(1) 5-7 (Jan 1996), 6A676
Prediction of the growth of internal fatigue cracks, J Machinery Manuf Reliab 3 32-37 (1995), 6A677
Stress and damage distribution near the tip of a crack growing under creep, Mech Solids 30(3) 144-149 (1995), 6T678
Topical problems of strain-based fracture-criteria, Mech Solids 30(3) 130-133 (1995), 6A679
Crack initiation angles for systems of two interacting cracks in media with rectilinear-preferred directions, Theor Appl Fracture Mech 24(3) 253-261 (Mar 1996), 8A669
Crack interaction, coalescence, and mixed-mode fracture mechanics, Fatigue Fracture Eng Mat Struct 19(1) 51-63 (1996), 8A670
Effect of aging on mixed-mode I-III fracture toughness of 2034 aluminum alloys, Acta Mat 44(3) 1047-1054 (Mar 1996), 8A671
Effect of a superimposed constant load on the criterion for stable crack growth, Int J Pressure Vessels Piping 67(2) 113-117 (Jul 1996), 9A745
Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), J Soc Mat Sci Japan 45(2) 212-217 (Feb 1996), 9A774
Dynamic crack instability: The twin-crack model, Arch Mech 47(5) 829-844 (1995), 9A831
Effect of inertial loadings on the criterion for stable growth of a crack in a piping system, Int J Pressure Vessels Piping 67(2) 119-125 (Jul 1996), 9A832
Tensile tunnel-crack with a slightly wavy front, Int J Solids Struct 33(14) 1995-2022 (Jun 1996), 9A833
Crack interaction, coalescence and mixed-mode fracture mechanics, Fatigue Fracture Eng Mat Struct 19(4) 427-439 (1996), 10A814
Compressive failure of microcracked porous brittle solids, Mech Mat 22(4) 265-277 (Apr 1996), 11A2
Self-consistent approximation for crack bridging by elastic-perfectly plastic ligaments, Mech Mat 22(4) 249-263 (Apr 1996), 11A667
Stability Problems in Fracture Mechanics - Wiley Series in Nonlinear Science (Wiley, New York, 1996) 12R18
Energy-release rate and crack kinking in anisotropic brittle solids, J Mech Phys Solids 44(6) 929-951 (Jun 1996), 12A761
Harmonic thermal fracture of multiple crack system and the stability of cracks in RCC arch dam, Eng Fracture Mech 54(5) 653-665 (Jul 1996), 12A1285

276Q. Impulsive loading and impact

Mathematical treatment for impact test, Eng Fracture Mech 52(2) 199-204 (Sep 1995), 2A669
Strain rate effect on representative volume element with penny-shaped crack under dynamic loading, Theor Appl Fracture Mech 23(3) 209-217 (Sep 1995), 2A670
Mixed-mode fracture performance of fiber reinforced concrete under impact loading, Mat Struct 28(182) 473-478 (Oct 1995), 3A699
Dynamic effects of breaking stiffoners in cracked structures, Eng Fracture Mech 52(5) 811-820 (Nov 1995), 4A747
Numerical analysis of a railroad bolt hole fracture problem, Theor Appl Fracture Mech 24(1) 1-12 (Dec 1995), 4A748
Proceedings of the 1994 Symposium - Part I and Part II: Hypervelocity impact, October 17-19, 1994, Int J Impact Eng 17(1-6) 465-947 (1995), 5A64
Fractographic aspects of blunting at high loading rate, Eng Fracture Mech 53(1) 37-47 (Jan 1996), 5A661
Numerical simulation of the nonstationary impact interaction between deformable structural elements, J Machinery Manuf Reliab 2 16-21 (1995), 5A678
Effect of through-thickness cracks on the ballistic performance of ceramic armour systems, Int J Impact Eng 18(3) 309-318 (Apr 1996), 7A259
Damage tolerance of thick hybrid composite plate containing a local hemispherical damage, Composite Struct 33(4) 227-236 (1995), 7A850
Two dof modeling of pre-cracked beams under impact, Eng Fracture Mech 53(3) 481-491 (Feb 1996), 7A851
Stochastic jump and deterministic dynamics model of impact failure evolution with rate effect, Theor Appl Fracture Mech 24(3) 189-196 (Mar 1996), 8A604
Similitude experiments on projectile-induced fracture of monolithic glass, Int J Impact Eng 18(4) 417-424 (Jun 1996), 9A288
Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), J Comput Struct Mech Appl 12(1) 110-115 (Feb 1995), 9A798
Studies on the impact behavior of banded microalloyed steel, Eng Fracture Mech 53(6) 991-1005 (Apr 1996), 9A834
Dynamic stresses around two cracks placed symmetrically to a large crack, Int J Fracture 75(3) 261-271 (1995), 10A815
Local grid refinement method for determining stress intensity factors for cracks at notches, Fatigue Fracture Eng Mat Struct 19(4) 523-528 (1996), 10A816
Relationship between shear lip, shear index, and energy in dynamic tear specimens, Eng Fracture Mech 54(1) 11-23 (May 1996), 10A817
Transient response of a finite crack in an orthotropic strip under the in-plane shear impact, Acta Mech Sinica 11(4) 349-356 (1995), 10A818
Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), J Pressure Vessel Tech 118(2) 174-180 (May 1996), 10A1336
Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, Thin-Walled Struct 25(4) 269-295 (1996), 11A679
Strain rate effects on fracture toughness of ship plate steels, J Offshore Mech Arctic Eng 118(2) 127-134 (May 1996), 11A691

276S. Dynamic crack propagation

Dynamic Fracture Mechanics (Comput Mech, Billerica MA, 1995) 1R16
Counter-intuitive quasi-periodic motion in the autonomous vibration of cracked Timoshenko beams, J Sound Vib 185(3) 415-430 (Aug 1995), 1A127
Time-harmonic body force loading of a mode-I penny-shaped crack, Int J Solids Struct 32(21) 3191-3216 (Nov 1995), 1A828
Boundary element study on the optical method of caustic for measuring fast crack propagation toughness K_{ID}, Int J Fracture 71(4) 379-390 (1995), 2A47
Single-region time domain BEM for dynamic crack problems, Int J Solids Struct 32(24) 3555-3571 (Dec 1995), 2A49
Simulation of dynamic fracture of an impact-loaded brittle solid: Microcracked and polycrystalline solids, Model Simulation Mat Sci Eng 3(5) 665-688 (Sep 1995), 2A169
Complex oscillatory behavior in a cracked beam under sinusoidal excitation, J Sound Vib 186(2) 350-354 (Sep 1995), 2T671
Problems of dynamic fracture mechanics without account for the contact of crack margins (Russian), Prikl Mekh (Appl Mech) 30(10) 3-28 (1994), 3A708
Fracture mechanics for a mode III crack in a piezoelectric material, Int J Solids Struct 33(3) 343-359 (Jan 1996), 4A700
Continuum thermodynamic analysis of cohesive zone models, Int J Eng Sci 33(15) 2197-2219 (Dec 1995), 4A749
Dynamic damage and failure in visco-plastic materials, Eng Fracture Mech 52(6) 1065-1077 (Dec 1995), 4A750
Dynamic interaction of a crack with a circular hole under antiplane loading, J Mech Phys Solids 43(12) 1857-1874 (Dec 1995), 4A751
Interface crack propagation with variable velocity for longitudinal shear problems, Int J Fracture 72(2) 121-144 (1995), 4A752
Stress singularity of mode-I crack propagating with transonic speed, Eng Fracture Mech 52(6) 977-985 (Dec 1995), 4A753
Modeling of the opening and closure of a crack, J Vib Acoust 117(3(A)) 370-377 (Jul 1995), 5A590
Dynamic stress intensity factors K_I, K_{II} and dynamic crack propagation characteristics of orthotropic material, Eng Fracture Mech 53(1) 119-140 (Jan 1996), 5A662
Stability analyses of a cracked shaft subjected to the end load, J Sound Vib 188(4) 497-513 (Dec 1995), 6A146
Experimental study of crack-induced dynamic damage growth in fiber composites, Mech Composite Mat Struct 2(4) 295-308 (Dec 1995), 6A663
Analysis of systems of interacting surface cracks, J Machinery Manuf Reliab 3 38-42 (1995), 6A675
Prediction of the growth of internal fatigue cracks, J Machinery Manuf Reliab 3 32-37 (1995), 6A677
Dynamic fracture detection using the force-displacement reciprocity: Application to the compact compression specimen, Int J Fracture 73(1) 67-79 (1995), 6A680
Effective relations for nonlinear dynamics of cracked solids, J Mech Phys Solids 44(1) 49-75 (Jan 1996), 6A681
Method for crack kinetics calculations in a medium with volume gas evolution, Mech Solids 30(3) 134-143 (1995), 6A682
Slip-diffusion zone effects at rapidly-loaded cracks in thermoelastic solids, J Elast 40(3) 183-206 (Sep 1995), 6A683
Destruction of round cylindrical shells of orthotropic material weakened by a longitudinal crack under statistical loading by axial force and internal pressure (Russian), Prikl Mekh (Appl Mech) 31(3) 55-60 (1995), 7A852
Impact and dynamic fracture of tough polymers by thermal decohesion in a Dugdale zone, Int J Fracture 73(2) 109-127 (1995), 7A853
Problems of dynamic failure with regard for the contact of crack edges, Prikl Mekh (Appl Moch) 31(1) 3-36 (1995), 7A854
Time-marching solution of 3D dynamic problems in crack theory, Mech Solids 30(4) 115-120 (1995), 7A855
Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities, Int J Fracture 74(1) 29-42 (1995), 8A672
Method for thermo-mechanical analysis of steady-state dynamic crack growth, Int J Solids Struct 33(13) 1867-1889 (May 1996), 8A673
Numerical simulations of dynamic interfacial crack growth allowing for crack growth away from the bond line, Int J Fracture 74(3) 253-275 (1995), 8A674
Three-dimensional analysis of dynamic ductile crack growth in a thin plate, J Mech Phys Solids 44(3) 439-464 (Mar 1996), 8A675
Introduction to Fatigue in Metals and Composites (Chapman and Hall, New York, 1996) 9R11
Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), J Comput Struct Mech Appl 12(1) 110-115 (Feb 1995), 9A798
Dynamic crack instability: The twin-crack model, Arch Mech 47(5) 829-844 (1995), 9A831
Brittle fracture of a compressed cylinder, J Machinery Manuf Reliab 5 53-58 (1995), 9A835
Controversies in dynamic fracture mechanics, Arch Mech 47(5) 985-1001 (1995), 9A836
Crack propagation in a model composite, J Mech Behavior Mat 6(3) 221-244 (1996), 9A837
Dynamic fracture using element-free Galerkin methods, Int J Numer Methods Eng 39(6) 923-938 (Mar 1996), 9A838
Dynamic interface crack propagation and related problems of caustics, Arch Mech 47(5) 915-956 (1995), 9A839
Fast crack propagation in viscoplastic materials, Arch Mech 47(5) 899-914 (1995), 9A840
Model for dynamic ductile crack growth, Arch Mech 47(5) 873-887 (1995), 9A841
Numerical simulations of dynamic crack growth along an interface, Int J Fracture 74(4) 289-324 (1995), 9A842
Terminal velocity of rapid crack propagation, Arch Mech 47(5) 1003-1009 (1995), 9A843
Transient response of an antiplane inclined subsurface crack subjected to dynamic moving loadings, Int J Solids Struct 33(15) 2225-2242 (Jun 1996), 9A844
Qualitative estimates of gas-filling crack growth, Mech Solids 30(6) 110-116 (1995), 10A769
Cauchy singular integral equation method for transient antiplane dynamic problems, Eng Fracture Mech 54(2) 177-187 (May 1996), 10A819
Fracture Mechanics, Volume 26 (ASTM, 1995) 11N28
Fracture model to study the effect of specimen size on the dynamic energy release rates, Fatigue Fracture Eng Mat Struct 19(5) 601-610 (1996), 11A692
Transonic crack growth along a bimaterial interface: An investigation of the asymptotic structure of near-tip fields, Int J Solids Struct 33(18) 2625-2645 (Jul 1996), 11A693
Experimental technique for studying mixed-mode fatigue crack growth in solder joints, J Electron Packaging 118(2) 45-48 (Jun 1996), 12A716
Asymptotic and FE analyses of mode III dynamic crack growth at a ductile-brittle interface, Int J Fracture 76(1) 61-77 (1995), 12A764
Configurational forces and the basic laws for crack propagation, J Mech Phys Solids 44(6) 905-927 (Jun 1996), 12A765
Dynamic crack growth in TDCB specimens, Int J Mech Sci 38(10) 1073-1088 (Oct 1996), 12A766
Empirical crack propagation model and its applications for solder joints, J Electron Packaging 118(2) 104-107 (Jun 1996), 12A767

276U. Crack arrest or retardation

Crack grwoth resistance due to shot peening in carburized gears, J Propulsion Power 11(5) 973-979 (Oct 1995), 2A672
Asymptotic solutions for crack closure in an elastic plate under combined extension and bending, J Mech Phys Solids 43(11) 1727-1749 (Nov 1995), 3A709
Analysis of cracked aluminum plates repaired with bonded composite patches, AIAA J 34(2) 369-374 (Feb 1996), 7A631
Modeling nonaxisymmetric off-design shapes of large scientific balloons, AIAA J 34(2) 400-407 (Feb 1996), 7A641
Analytical model of fatigue crack growth retardation due to overloading, Int J Solids Struct 33(9) 1229-1242 (Apr 1996), 7A856
Crack growth arresting property of a hole and Brinell-type dimple, Fatigue Fracture Eng Mat Struct 19(1) 39-49 (1996), 8A567
Constraint effect of crack due to clad material (Japanese), J Soc Mat Sci Japan 45(2) 201-205 (Feb 1996), 9A845
Shielding due to aligned microcracks in anisotropic media, Mech Mat 22(3) 203-217 (Mar 1996), 10A813

276W. Micromechanisms

Damage strain energy release rate Y, Int J Damage Mech 4(3) 251-263 (Jul 1995), 1A829
Fracture in structured continua, Int J Damage Mech 4(3) 283-289 (Jul 1995), 1A830
Micromechanical modeling of strain softening in microcrack-weakened quasi-brittle materials, Acta Mech Solida Sinica 8(2) 121-132 (1995), 1A831
Unified energy approach to a class of micromechanical models for microcracked solids, Acta Mech Solida Sinica 8(2) 110-120 (1995), 1A832
Analysis of splitting failures during the drawing of tungsten wire, Eng Failure Anal 2(2) 105-115 (Jun 1995), 2A537
Effect of static mode on fatigue crack growth by a unified micromechanic model, Mech Mat 21(3) 169-189 (Oct 1995), 2A673
Effects of fractal crack, Theor Appl Fracture Mech 23(3) 235-244 (Sep 1995), 2A674
Micro-mechanics and continuum damage mechanics, Arch Appl Mech 65(7) 437-456 (Sep 1995), 2A675
Micromechanics model for damage and failure analyses of laminated fibrous composites, Eng Fracture Mech 52(2) 231-242 (Sep 1995), 2A676
Fatigue damage modeling of elastic-plastic materials, Arch Mech 47(3) 513-521 (1995), 3A710
Influence of a damage zone on high temperature crack growth in brittle materials, Acta Metall Mat 43(11) 3937-3945 (Nov 1995), 3A711
Micromechanics modeling of microcrack toughening in ceramic materials, Trans Can Soc Mech Eng 19(3) 317-329 (1995), 3A712
Microvoids formed inside the grains and at two, three, and four-grain junctions, Arch Mech 47(4) 773-791 (1995), 3A713
Molecular dynamics simulation of crack-tip processes in copper, Acta Mech Sinica 11(1) 76-82 (1995), 3A714
Large-scale crystal plasticity computations of microstructural failure modes, Comput Syst Eng 6(3) 225-240 (Jun 1995), 4A456

Statistical modeling of microcracking in concrete under compressive cyclic loading, Theor Appl Fracture Mech 24(1) 47-55 (Dec 1995), 4A694
Anisotropic effective moduli of materials with microcracks, Eng Fracture Mech 52(5) 833-842 (Nov 1995), 4A754
Damaged evolution model for strain fatigue of ductile metals, Eng Fracture Mech 52(6) 971-975 (Dec 1995), 4A755
Fracture model for hydride-induced embrittlement, Acta Metall Mat 43(12) 4325-4335 (Dec 1995), 4A756
Fracture toughness of niobium-alumina interfaces: An analysis based on a micromechanical model, Acta Metall Mat 43(12) 4301-4307 (Dec 1995), 4A757
Modeling of plasticity and damage in a polycrystalline microstructure, Int J Plasticity 11(8) 949-970 (1995), 5A433
Fatigue of cellular materials, Acta Mat 44(1) 289-296 (Jan 1996), 5A595
Microcracking due to grain boundary sliding in polycrystalline ice under uniaxial compression, Acta Mat 44(1) 43-56 (Jan 1996), 5A663
Experimental study of crack-induced dynamic damage growth in fiber composites, Mech Composite Mat Struct 2(4) 295-308 (Dec 1995), 6A663
Estimation of bivariate size and orientation distribution of microcracks, Acta Mat 44(2) 475-485 (Feb 1996), 6A684
Interaction of a penny-shaped crack with an elliptic crack, Int J Fracture 73(1) 51-65 (1995), 6A685
Anisotropic damage for the characterization of the onset of macro-crack initiation in metals, Int J Damage Mech 5(1) 68-92 (Jan 1996), 7A857
Dynamic behavior of micro-damaged stratified media, Int J Fracture 73(3) 223-232 (1995), 7A858
Poisson's ratio of porous and microcracked solids: Theory and application to oxide superconductors, J Mat Res 10(11) 2715-2722 (Nov 1995), 8A398
Atomistic study of brittle fracture: Toward explicit failure criteria from atomistic modeling, J Mat Res 10(11) 2897-2907 (Nov 1995), 8A676
Effect of microstructure on fracture toughness of polycrystalline alumina, Fatigue Fracture Eng Mat Struct 19(1) 119-128 (1996), 8A677
Micromechanical model of stage I to stage II crack growth transition for aluminum alloys, Theor Appl Fracture Mech 24(3) 217-231 (Mar 1996), 8A678
Continuum damage mechanics model for void growth and micro crack initiation, Eng Fracture Mech 53(6) 917-928 (Apr 1996), 9A742
Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, Int J Fatigue 18(2) 119-125 (Feb 1996), 9A760
Finite-element work-hardening plasticity model of the uniaxial compression and subsequent failure of porous cylinders including effects of void nucleation and growth - Part II: Localization and fracture criteria, J Eng Mat Tech 118(2) 169-178 (Apr 1996), 10A543
Characterization of 2D crack propagation behavior by simulation and analysis, Int J Fracture 75(3) 247-259 (1995), 10A726
Effect of a microdefect ahead of a main crack on strength of solids: Exact solution to the main crack-microdefect interaction model, JSME Int J Ser A 39(2) 231-236 (Apr 1996), 10A771
Computational simulation of matrix microslip bands in SiC-Ti-15 composite, Int J Damage Mech 5(2) 138-149 (Apr 1996), 10A820
Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part A: The influence of non-metallic inclusions, Int J Pressure Vessels Piping 67(3) 317-327 (1996), 10A821
Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part B: The influence of carbides, Int J Pressure Vessels Piping 67(3) 329-336 (1996), 10A822
Micromechanical evolutionary damage models for polycrystalline ceramics, Int J Damage Mech 5(2) 113-137 (Apr 1996), 10A823
Micromechanics analyses of interface crack, Acta Mech Sinica 12(1) 47-54 (1996), 10A824
Molecular dynamics simulation of interaction of a dislocation array from a crack tip with grain boundaries, Model Simulation Mat Sci Eng 4(2) 231-244 (Mar 1996), 11A461
Nother's theorem in the elastic dynamics of microcracked bodies, Mech Res Commun 23(3) 233-238 (Jun 1996), 11T694
Micromechanics of intergranular creep failure under cyclic loading, Acta Mat 44(7) 2697-2710 (Jul 1996), 12A768
Mode I fracture modeling of elastomer-toughened polymers, Int J Fracture 75(4) 285-306 (1995), 12A769

276Y. Computational techniques

Special bending crack tip FE, Int J Fracture 71(1) 57-69 (1995), 1A41
Three-dimensional six-noded FE containing a λ singularity, Int J Fracture 70(4) 347-356 (1995), 1A42
Combination of the weight function method and the line spring model: A surface-cracked cylindrical shell subjected to stress gradients, Int J Solids Struct 32(20) 3037-3046 (Oct 1995), 1A833
Computer analysis of damage development in rectangular plates, Eng Trans 43(1-2) 71-82 (1995), 1A834
Interactions of coplanar surface semi-elliptical cracks and embedded elliptical cracks in finite thickness plates under uniform tension, Int J Pressure Vessels Piping 65(1) 27-39 (1996), 1A835
Multiple-cracked fatigue crack growth by BEM, Comput Mech 16(5) 273-280 (Aug 1995), 1A836
Neural network approach to fatigue-crack-growth predictions under aircraft spectrum loadings, J Aircraft 32(4) 825-831 (Aug 1995), 1A837
Stochastic analysis of the fracture of solids with microcracks, Z Angew Math Phys 46(4) 507-523 (Jul 1995), 1A838
Applying numerical methods for determining the service life of gears, Fatigue Fracture Eng Mat Struct 18(9) 971-979 (Sep 1995), 2A677
Numerical Green's function approach for BEs applied to fracture mechanics, Int J Numer Methods Eng 38(19) 3259-3274 (Oct 1995), 2A678
Three-dimensional contact mechanics analysis of crack problems using the BEM, Int J Fracture 72(1) 39-67 (1995), 3A438
Damage development in boundary layers of Mindlin-Reissner plates, Arch Civil Eng 41(3) 397-409 (1995), 3A715
Stability in crack determination from electrostatic measurements at the boundary: A numerical investigation, Inverse Prob 11(5) L17-L24 (Oct 1995), 3A716
Singular integral equation-BEM to solve the Saint-Venant bending problem of cracked cylinders, Int J Fracture 72(2) 159-169 (1995), 4A70
Element-free Galerkin method for wave propagation and dynamic fracture, Comput Methods Appl Mech Eng 126(1-2) 131-153 (Sep 1995), 4A252
Probabilistic inverse analysis for predicting the distribution of multiple internal defects, Eng Fracture Mech 52(6) 1015-1027 (Dec 1995), 4A693
Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, Mech Mat 21(4) 303-312 (Nov 1995), 4A734
Application of the weight function and boundary collocation method to the calculation of initial phase transformation zones, Eng Fracture Mech 52(5) 853-863 (Nov 1995), 4A758
Determination of bridging stresses and R-curves from load-displacement curves, Eng Fracture Mech 52(5) 803-810 (Nov 1995), 4A759
Note on the line spring solution for a part-through crack, Int J Fracture 72(2) 191-195 (1995), 4A760
Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, Finite Elements Anal Des 21(1-2) 21-44 (Oct 1995), 5A33
Application of the finite strip method to plane fracture problems, Eng Fracture Mech 53(1) 89-96 (Jan 1996), 5A664
Approximate analysis of dynamic contact between crack surfaces, Eng Anal Boundary Elements 16(1) 41-46 (1995), 5A665
Boundary element analysis for an interface crack between dissimilar elastoplastic materials, Comput Mech 16(6) 396-405 (Nov 1995), 5A666
Constraint in the failure assessment diagram approach for fracture assessment, J Pressure Vessel Tech 117(3) 260-267 (Aug 1995), 5A667
Finite element calculation of stress intensity factors for interfacial crack using virtual crack closure integral, Comput Mech 16(6) 417-425 (Nov 1995), 5A668
Developments in the analysis of interacting cracks, Eng Failure Anal 2(4) 307-320 (Dec 1995), 6A9
Finite element code for fracture propagation analysis within elasto-plastic continuum, Eng Fracture Mech 53(2) 193-211 (Jan 1996), 6A11
Energy-based cohesive crack propagation modeling, J Eng Mech 121(12) 1349-1358 (Dec 1995), 6A631
Analysis of cracks perpendicular to bimaterial interfaces using a novel FE, Int J Fracture 73(1) 1-23 (1995), 6A686
Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, Mech Composite Mat Struct 2(4) 309-328 (Dec 1995), 6A687
Fracture criterion based on the higher-order asymptotic fields, Int J Fracture 73(1) 39-50 (1995), 6A688
Implications of the use of the PD6493 level 3 failure assessment procedure, Fatigue Fracture Eng Mat Struct 18(12) 1499-1509 (Dec 1995), 6A689
Fractal two-level FE analysis of cracked Reissner's plate, Thin-Walled Struct 24(4) 315-334 (1996), 7A21
Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, Thin-Walled Struct 24(4) 335-352 (1996), 7A558
Equilibrium paths of polygonally damaging structures - Part One: The nonsmooth nonconvex stability problem, Int J Damage Mech 5(1) 16-41 (Jan 1996), 7A646
Equilibrium paths of polygonally damaging structures - Part Two: 1D example for nonsmooth damage and localization, Int J Damage Mech 5(1) 42-67 (Jan 1996), 7A647
Fracture predicting in bulk metal forming, Int J Mech Sci 38(4) 361-372 (Apr 1996), 7A720
Fatigue failure maps of heterogeneous materials, Mech Mat 22(1) 11-21 (Jan 1996), 7A787
Time-marching solution of 3D dynamic problems in crack theory, Mech Solids 30(4) 115-120 (1995), 7A855
Elastic Green's function for a damaged interface in anistropic materials, J Mat Res 11(2) 537-544 (Feb 1996), 7A859
Enriched FE analysis for a delamination crack in a laminated composite strip, Comput Mech 17(4) 262-269 (Jan 1996), 7A860
Hybrid-Trefftz equilibrium model for crack problems, Int J Numer Methods Eng 39(4) 569-584 (Feb 1996), 7A861
Influence of bridging stresses on specimen compliances, Eng Fracture Mech 53(3) 363-370 (Feb 1996), 7A862
Insensitivity of the reciprocal work contour integral method to higher order eigenvectors, Int J Fracture 73(2) 93-108 (1995), 7A863
Numerical smeared fracture analysis: Nonlocal microcrack interaction approach, Int J Numer Methods Eng 39(4) 635-661 (Feb 1996), 7A864
Radial cracking with closure, Int J Fracture 73(3) 233-261 (1995), 7A865
Two-dimensional five-noded FE to model power singularity, Int J Fracture 74(1) 89-97 (1995), 8A25
Crack identification in a cantilever beam under uncertain end conditions, Int J Mech Sci 38(5) 499-507 (May 1996), 8A107
Effective method for computing the elastic field in a finite cracked disk, Eng Fracture Mech 53(4) 545-556 (Mar 1996), 8A382
Elastic interaction between a moving screw dislocation and a surface crack, J Mat Res 10(10) 2668-2675 (Oct 1995), 8A387
Probabilistic criterion for evaluating the goodness of fatigue crack growth models, Eng Fracture Mech 53(5) 707-731 (Mar 1996), 8A599
Reliability against fatigue fracture in the presence of sets of cracks, Eng Fracture Mech 53(5) 753-759 (Mar 1996), 8A600
Simple second-order approximation for stochastic crack-growth analysis, Eng Fracture Mech 53(5) 677-686 (Mar 1996), 8A603
Three reliability methods for fatigue crack growth, Eng Fracture Mech 53(5) 733-752 (Mar 1996), 8A606
Boundary element method for 2D linear elastic fracture analysis, Int J Fracture 74(3) 219-251 (1995), 8A679
Evaluation of energy release rate for a planar crack in heterogeneous media, Int J Fracture 74(2) 163-179 (1995), 8A680
Finite element solution for elliptical cracks using the ICCI method, Eng Fracture Mech 53(4) 519-526 (Mar 1996), 8A681
Rational source of plane fractals and its application to fragmentation analysis of thin plates, Chaos Solitons Fractals 7(1) 31-40 (Jan 1996), 8A682
Solution of crack problems by using distributed strain nuclei, Proc Inst Mech Eng C 210(C1) 23-31 (1996), 8A683
Extended and updated selected papers from ENS TOPNUX '93, Hague, Netherlands, April 25-28, 1993, Nucl Eng Des 160(1-2) 1-268 (Feb 1996), 8T1376
Finite element analysis for coupled creep elastoplastic damage response (Chinese), J Comput Struct Mech Appl 12(1) 26-38 (Feb 1995), 9A28
Problematic nature of the application of stochastic crack growth models in engineering design, Eng Fracture Mech 53(6) 911-916 (Apr 1996), 9A778
Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, Mat Struct 29(186) 87-96 (Mar 1996), 9A795
Analyses on interactions of two identical semi-elliptical surface cracks in the internal surface of a cylindrical pressure vessel, Int J Pressure Vessels Piping 67(2) 203-210 (Jul 1996), 9A846
Effective method for analyzing interference effect of arbitrary multiple defects, Comput Struct 59(4) 715-728 (May 1996), 9A847
Finite element analysis of Mode III quasi-static crack growth at a ductile-brittle interface, J Appl Mech 63(1) 204-209 (Mar 1996), 9A848
Indirect BEM for 3D dynamic fracture mechanics, Eng Anal Boundary Elements 16(4) 351-362 (1995), 9A849
Intersonic mode II crack expansion, Arch Mech 47(5) 859-871 (1995), 9A850
Objective cracking criterion for the analysis of concrete dams, Comput Struct 59(4) 751-756 (May 1996), 9A851
Theoretical analysis of the cutting method for the measurement of crack bridging tractions, Arch Mech 47(5) 845-857 (1995), 9A852
Three-dimensional flaw identification using inverse analysis, Int J Eng Sci 34(4) 453-469 (Mar 1996), 9A853
Artificial neural network technology as a method to evaluate the failure bending moment of a pipe with a circumferential crack, Int J Pressure Vessels Piping 68(1) 1-6 (1996), 10A447
Neural network approximation to the size effect in fracture of cementitious materials, Eng Fracture Mech 54(2) 249-261 (May 1996), 10A449
Special learning set of a neural network and its application in evaluating the failure bending moments of flawed pipes, Int J Pressure Vessels Piping 68(1) 7-11 (1996), 10A451
Calculation of Weibull life expectancy parameters from fracture data using the maximum likelihood criterion and a Nelder-Mead simplex minimization algorithm, Comp Assisted Mech Eng Sci 3(1) 37-43 (1996), 10A755
Element-embedded localization band based on regularized displacement discontinuity, J Eng Mech 122(5) 402-411 (May 1996), 10A759
Surface integral and FE hybrid method for 3D analysis of arbitrarily shaped surface cracks, J Eng Gas Turbines Power 118(2) 406-410 (Apr 1996), 10A760
Qualitative estimates of gas-filling crack growth, Mech Solids 30(6) 110-116 (1995), 10A769
Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, J Eng Gas Turbines Power 118(2) 394-398 (Apr 1996), 10A825
Application of the dual BEM to the analysis of cracked stiffened panels, Eng Fracture Mech 54(1) 91-105 (May 1996), 10A826
Complex variable formulations for usual and hypersingular integral equations for potential problems: With applications to corners and cracks, Comput Mech 17(5) 279-286 (Mar 1996), 10A827
Gradient plasticity in numerical simulation of concrete cracking, Eur J Mech A 15(2) 295-320 (1996), 10A828
Kalker's method applied to some improper integrals in fracture mechanics, Eng Fracture Mech 54(2) 229-237 (May 1996), 10A829
Laplace transform DBEM for mixed-mode dynamic crack analysis, Comput Struct 59(6) 1021-1031 (Jun 1996), 10A830
Order of the singular stress fields of through-thickness cracks, Int J Fracture 75(1) 85-93 (1995), 10A831
Single-domain BEM for 3D elastostatic crack analysis using continuous elements, Int J Numer Methods Eng 39(8) 1265-1293 (Apr 1996), 10A832
Size effect predictions by fracture models for a refractory ceramic, Int J Fracture 75(3) 273-283 (1995), 10A833
Localized Damage IV: Computer-Aided Assessment and Control - Proc of 4th Int Conf, Fukuoka, Japan, June 1996 (Comput Mech, Billerica MA, 1996) 11N31
Boundary element formulations for the dynamic analysis of cracked structures, Eng Anal Boundary Elements 17(1) 45-56 (1996), 11A695
Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, Acta Mech Solida Sinica 9(2) 124-138 (1996), 12A492
Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, J Mat Processing Tech 57(3-4) 298-303 (Feb 1996), 12A672
Examination of methods of assessing interacting surface cracks by comparison with experimental data, Int J Pressure Vessels Piping 68(2) 181-201 (1996), 12A711
Analytical solution for mode I crack orthogonal to free surface, Int J Fracture 76(1) 79-95 (1995), 12A770
Application of a weight function based method to assess partially closed cracks, Eng Fracture Mech 54(5) 679-691 (Jul 1996), 12A771
BIE fracture mechanics analysis: 25 years of developments, Comput Mech 18(1) 1-11 (May 1996), 12A772
Boundary element analysis of orthotropic delamination specimens with interface cracks, Eng Fracture Mech 54(5) 601-615 (Jul 1996), 12A773
Contribution of discontinuities in a near-tip stress field to the J-integral, Int J Eng Sci 34(7) 819-829 (May 1996), 12A774
Energy considerations in the boundary collocation method applied in fracture, Eng Fracture Mech 54(5) 639-652 (Jul 1996), 12A775
Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), J Soc Mat Sci Japan 45(5) 544-551 (May 1996), 12A776
Generalized modified crack closure integral and its application to interface crack problems, Comput Struct 60(4) 665-676 (Jun 1996), 12A777
Hybrid FE approach to quasi-brittle fracture, Comput Struct 60(5) 733-741 (Jul 1996), 12A778
Improved method of collocation for the problem of crack surface subjected to uniform load, Eng Fracture Mech 54(5) 731-741 (Jul 1996), 12A779
Simulation of 3D waves for crack detection, Adv Eng Software 26(2) 75-82 (1996), 12A780
Transient thermoelastic problem for an infinite plate containing a penny-shaped crack at an arbitrary

position, J Thermal Stresses 19(4) 379-394 (Jun 1996), 12A1278

276Z. Experimental techniques

Calibration of the localized DCPD method for crack shape measurement using the BEM, Fatigue Fracture Eng Mat Struct 19(7-8) 875-884 (Aug 1995), 1A53
Analysis of the double cleavage drilled compression specimen for interface fracture energy measurements over a range of mode mixities, Acta Metall Mat 43(9) 3453-3458 (Sep 1995), 1A839
How to obtain a complete dependence curve of impact toughness or fracture toughness vs temperature on nuclear pressure vessel steels by using only one Charpy-size specimen, Int J Pressure Vessels Piping 65(2) 187-192 (1996), 1A840
Laser-strain and displacement measurement for fracture mechanics research (Japanese), J Soc Mat Sci Japan 44(502) 891-898 (Jul 1995), 1T841
Microstructural effect on fracture toughness of N26MT2Nb steel in the two-phase state, J Theor Appl Mech 33(3) 519-537 (1995), 1A842
Determining the size and location of transverse cracks in beams, Exp Mech 35(3) 272-280 (Sep 1995), 2A679
Mixed-mode fracture performance of fiber reinforced concrete under impact loading, Mat Struct 28(182) 473-478 (Oct 1995), 3A699
Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, Mat Struct 28(182) 435-443 (Oct 1995), 3A705
Fatigue damage modeling of elastic-plastic materials, Arch Mech 47(3) 513-521 (1995), 3A710
Crack identification in beams by coupled response measurements, Comput Struct 58(2) 299-305 (Jan 1996), 3A717
Experimental investigation of tensile fracture in polyurethane foams, J Mat in Civil Eng 7(4) 258-264 (Nov 1995), 3A718
Fracture mechanical behavior of aggregate-cement matrix interfaces, J Mat in Civil Eng 7(4) 199-203 (Nov 1995), 3A719
Fracture mechanics of a new blister test with stable crack growth, Acta Metall Mat 43(11) 4109-4115 (Nov 1995), 3A720
Properties of paste-rock interfaces and their influence on composite behavior, Mat Struct 28(183) 497-506 (Nov 1995), 4A480
Crack rotation factor and dynamic fracture measurement, Eng Fracture Mech 52(6) 1029-1033 (Dec 1995), 4A761
Inertia effect in Charpy impact tests, Eng Fracture Mech 52(6) 1165-1166 (Dec 1995), 4T762
Measurement of crack tip strains using neutron diffraction, Eng Fracture Mech 52(5) 843-851 (Nov 1995), 4A763
Novel method for the measurement of J resistance curves, Eng Fracture Mech 52(5) 901-905 (Nov 1995), 4A764
Simplified NDE of a closed vertical crack using ultrasonics, NDT&E Int 28(5) 289-296 (Oct 1995), 4A778
Determination of stress intensity factors in the case of a combined loading by the method of holographic interferometry, J Machinery Manuf Reliab 2 46-51 (1995), 5A623
Application of high resolution geometric moire method to fracture problems, Exp Tech 19(6) 10-13 (Dec 1995), 5T669
Changes in the experimentalist's role in the future of mechanics: 1995 WM Murray lecture, Exp Mech 35(4) 281-292 (Dec 1995), 5A670
Comparison of several fracture mechanics methods for measuring interfacial toughness with microbond tests, J Adhesion 53(1-2) 45-68 (1995), 5A671
Phase-stepped ESPI and moire interferometry for measuring stress-intensity factor and J integral, Exp Mech 35(4) 306-314 (Dec 1995), 5A672
Study on generating mechanism of ultrasonic tip echo reflected from the sharp tips of a flaw (Japanese), Proc JSCE 525(1-33) 109-116 (Oct 1995), 5A673
Surface flaws using a modified AC magnetic bridge, Exp Mech 35(4) 367-373 (Dec 1995), 5A674
In-plane behavior of grouted concrete masonry under biaxial tension-compression, ACI Struct J 92(6) 653-664 (Dec 1995), 5A708
Experimental study of crack-induced dynamic damage growth in fiber composites, Mech Composite Mat Struct 2(4) 295-308 (Dec 1995), 6A663
Determination of fracture toughness by means of the uniaxial tensile test, J Mat Processing Tech 54(1-4) 372-374 (Oct 1995), 6A690
Efficient and accurate determination of mode I type 3D surface crack by measuring strain around the crack on the idea of the body force method, Int J Fracture 72(4) 343-358 (1995), 6A691
Optimum notch configurations for the chevron-notched four-point bend specimens, Int J Fracture 72(4) 311-326 (1995), 6A692
Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, Mat Eval 54(1) 93-98 (Jan 1996), 6A700
Evaluation and testing of a fracture critical bridge, NDT&E Int 28(6) 339-347 (Dec 1995), 6A768
Experimental study of distribution of plastic deformations around the crack Apex under statical loading, Prikl Mekh (Appl Mech) 30(11) 69-75 (1994), 7AK21
Study of crack-tip motion in dynamic fracture by microscopic time-resolved holography, Int J Fracture 73(3) 213-222 (1995), 7A866
Damage tolerance of CSM laminates subject to low velocity oblique impacts, Composite Struct 34(1) 101-116 (1996), 7A869
Proof-test-based life prediction of high-toughness pressure vessels, J Pressure Vessel Tech 118(1) 86-94 (Feb 1996), 7A993
Modeling and evaluating the scattering of Rayleigh waves by a linear distribution of surface cracks, J Nondestruct Eval 14(3) 99-108 (Sep 1995), 8A177
Brazilian disk for measuring fracture toughness of orthotropic materials, Acta Mat 44(3) 1223-1232 (Mar 1996), 8A684
Physical nature of drop-weight-test NDT, Eng Fracture Mech 53(4) 645-652 (Mar 1996), 8A685
Predicting and analyzing X-rays to measure propellant crack propagation speed, J Propulsion Power 12(2) 310-314 (Apr 1996), 8A686
Technique to generate straight through thickness surface cracks and its application to studying dislocation nucleation in Si, Acta Mat 44(3) 845-853 (Mar 1996), 8A687
Techniques for depth-selective, low-frequency eddy current analysis for SQUID-based NDT, J Nondestruct Eval 14(3) 149-167 (Sep 1995), 8A703
Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, Mat Struct 29(186) 87-96 (Mar 1996), 9A795
New experiment-calculation mixing method used to determine stress intensity factors (Chinese), J Dalian Univ Tech 36(2) 152-156 (Mar 1996), 9A800
Determination of crack-tip parameters from thermoelastic data, Exp Tech 20(2) 21-24 (Apr 1996), 9T854
Dynamic fracture under pressure and shear, Arch Mech 47(5) 971-984 (1995), 9A855
New method to determine the R-curve of ceramics fracture grating method, Acta Mech Solida Sinica 9(1) 81-87 (1996), 9A856
New ultrasonic technique for detection and sizing of small cracks in studs and bolts, J Nondestruct Eval 14(4) 201-206 (Dec 1995), 9A867
Measurement of residual stresses in a circular ring using the successive cracking method, J Eng Mat Tech 118(2) 217-223 (Apr 1996), 10A556
Behavior of fatigue short cracks in a medium carbon steel subjected to reversed torsion, J Theor Appl Mech 34(2) 327-343 (1996), 10A761
Zero-brittleness size-effect method for one-size fracture test of concrete, J Eng Mech 122(5) 458-468 (May 1996), 10A763
Conventional K calibration equations for single-edge-cracked tension specimens, Eng Fracture Mech 54(2) 301-305 (May 1996), 10A834
Damage indicators for diagnostic of fatigue cracks in structures by vibration measurements: A survey, J Theor Appl Mech 34(2) 307-326 (1996), 10A835
Evaluation of K_{II} using a copper foil when assessing frictional forces on crack surfaces, Fatigue Fracture Eng Mat Struct 19(4) 451-459 (1996), 10A836
K-calibration and standardization of ceramic specimen, Eng Fracture Mech 54(1) 167-169 (May 1996), 10A837
Mode II fracture testing method for highly orthotropic materials like wood, Int J Fracture 75(3) 185-214 (1995), 10A838
Review of certain non-standard theoretical and experimental investigations in fracture mechanics, J Theor Appl Mech 34(2) 235-258 (1996), 10A839
Step fracture analysis based on the energy balance equation in integral form, Eng Fracture Mech 54(1) 127-139 (May 1996), 10A840
Cracking and permeability of concrete under tension, Mat Struct 29(187) 141-151 (Apr 1996), 10A841
Experimental investigation of concrete fracture under uniaxial compression, Mech Cohesive-Frictional Mat 1(1) 115-127 (Jan 1996), 10A842
New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, J Theor Appl Mech 34(2) 259-280 (1996), 10A846
Analysis of direct current potential field around multiple random cracks, Int J Fracture 75(1) 69-84 (1995), 10A865
NDE of a crack by using closely coupled probes for DCPD technique, J Pressure Vessel Tech 118(2) 198-202 (May 1996), 10A868
Interfacial debonding in laminated titanium matrix composites, Mech Mat 22(4) 279-290 (Apr 1996), 11A488
In situ damage model observation and failure in model laminates containing planar yarn crimping of woven composites, Mech Composite Mat Struct 3(2) 101-117 (Jun 1996), 11A682
Fracture toughness of freshwater ice - Part I: Experimental technique and results, J Offshore Mech Arctic Eng 118(2) 135-140 (May 1996), 11A696
Fracture toughness of freshwater ice - Part II: Analysis and micrography, J Offshore Mech Arctic Eng 118(2) 141-147 (May 1996), 11A697
Measurements of stress intensity factors of an interface crack under mixed mode loading, J Adhesion 56(1-4) 187-203 (1996), 11A698
Simplified data reduction methods for the ECT test for Mode III interlaminar fracture toughness, J Composite Tech Res 18(2) 96-101 (Apr 1996), 11A699
Effect of thick concrete cover on the maximum flexural crack width under service load, ACI Struct J 93(3) 257-265 (Jun 1996), 11A751
Calibration function for notched cylindrical tension specimens, based on the common format equation: Numerical and experimental data analysis, Eng Fracture Mech 54(5) 617-628 (Jul 1996), 12A781

280. MATERIALS TESTING AND STRESS ANALYSIS

280B. Single and combined loadings

Art of Practical and Precise Strain Based Measurement, Revised Edition (Pierson and Assoc, Canada, 1994) 1R13
Scanning stress measurement method by laser photoelasticity - 1st report: Stress measurement by synthesized method, JSME Int J Ser A 38(4) 500-505 (Oct 1995), 3A721
Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, Mat Struct 28(184) 586-595 (Dec 1995), 5A468
Micromechanics of a model hotorogeneous material system under compresive loading, Exp Mech 35(4) 293-305 (Dec 1995), 5A675
Strength of concrete subjected to high temperature and biaxial stress: Experiments and modeling, Mat Struct 28(184) 575-581 (Dec 1995), 5A676
Behavior of reinforced concrete membrane elements in shear, ACI Struct J 92(6) 665-679 (Dec 1995), 5A705
Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), J Soc Mat Sci Japan 44(507) 1433-1438 (Dec 1995), 7A554
Study on seam performance of polymer-modified bituminous roofing membranes using T-peel test and microscopy, Mat Struct 29(186) 105-115 (Mar 1996), 9A794
Cracking and permeability of concrete under tension, Mat Struct 29(187) 141-151 (Apr 1996), 10A841
Experimental investigation of concrete fracture under uniaxial compression, Mech Cohesive-Frictional Mat 1(1) 115-127 (Jan 1996), 10A842
Experimental setup for tests under biaxial tension of anisotropic cruciform specimen, J Theor Appl Mech 34(2) 391-404 (1996), 10A843
Trends of experimental mechanics, J Theor Appl Mech 34(2) 207-233 (1996), 10A844
Determination of necking zone using laser speckle, Strain 32(1) 9-12 (Feb 1996), 10A853
Tension tests of heavy-duty anchors with embedments of 8 to 19 inches, ACI Struct J 93(3) 360-371 (Jun 1996), 11A700
Comparison between cube strengths and *in situ* concrete strength development, Proc Inst Civil Eng Struct Build 116(2) 138-153 (May 1996), 11A748
Large reinforced concrete cylinders under external pressure, Proc Inst Civil Eng Struct Build 116(2) 163-173 (May 1996), 11A757
Large steel-concrete composite cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 174-185 (May 1996), 11A758
Geometric axis bending strength of double angle beams, J Construct Steel Res 38(1) 23-40 (1996), 12A588
Experimental study on stud shear connectors subjected to cyclic loading, J Construct Steel Res 38(1) 1-21 (1996), 12A840

280G. Determination of elastic constants

Art of Practical and Precise Strain Based Measurement, Revised Edition (Pierson and Assoc, Canada, 1994) 1R13
Identification of elastic moduli displacement-force boundary measurements, Inverse Prob Eng 1(4) 292-313 (1995), 1A843
Reconstruction of a mass-spring system from spectral data II: Experiment, Inverse Prob Eng 1(4) 315-327 (1995), 1A844
Updating linear elastic models with modal selective sensitivity, Inverse Prob Eng 2(1) 29-47 (1995), 1A845
Determination of fiber-matrix interphase moduli from experimental moduli of composites with multi-layered fibers, Mech Mat 21(3) 191-215 (Oct 1995), 2A430
Constitutive equations for isotropic multimodulus media: Quasilinear relations, Mech Solids 30(1) 67-72 (1995), 3A3
Determination of elastic constants of a concrete specimen using transient elastic waves, J Acoust Soc Am 98(4) 2142-2148 (Dec 1995), 3A722
Double torsion testing of prescription lenses, J Mat Sci Mat Med 6(11) 630-634 (Nov 1995), 4A765
Modulus of elasticity of high performance concrete, Mat Struct 28(184) 559-568 (Dec 1995), 5A677
Determination of all elastic constants of orthotropic plate specimens from group velocity data, Res Nondestructive Eval 7(1) 13-29 (1995), 6T693
Number of grains required to homogenize elastic properties of polycrystalline ice, Mech Mat 22(1) 51-64 (Jan 1996), 7A4
Investigation of structural properties of used formwork stringers, J Mat in Civil Eng 8(1) 51-56 (Feb 1996), 7A867
Measurement of Young's modulus and stress analysis of a magnetic thin film, JSME Int J Ser A 39(1) 129-134 (Jan 1996), 7A868
Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), J Soc Mat Sci Japan 44(507) 1456-1463 (Dec 1995), 7A895
Properties of fiber reinforced structural lightweight concrete, ACI Struct J 93(1) 62-78 (Feb 1996), 7A941
Critique of two explicit schemes for estimating elastic properties of multiphase composites, Mech Mat 22(2) 149-164 (Feb 1996), 9A857
Measurement of elastic constants in composite materials using air-coupled ultrasonic bulk waves, J Acoust Soc Am 99(4) 2116-2123 (Apr 1996), 9A858
Determination of velocity and attenuation of shear waves using ultrasonic spectroscopy, J Acoust Soc Am 99(5) 2871-2875 (May 1996), 10A845
Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, Surveys Geophys 17(3) 307-330 (May 1996), 11A578
Shear properties of components used in stressed-skin panels, J Mat in Civil Eng 8(2) 77-82 (May 1996), 11A701
Technique for generating stress-strain curves from flexural data, J Composite Mat 30(9) 966-983 (1996), 12A568
Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, J Mat Sci Mat Med 7(2) 109-117 (Feb 1996), 12A782

280H. Repeated loading (fatigue)

Application of the shadow optical method to fatigue and crack closure studies, Strain 31(3) 101-106 (Aug 1995), 2A683
Statistical fatigue properties of ductile cast irons (Japanese), J Soc Mat Sci Japan 44(504) 1164-1170 (Sep 1995), 3A654
Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, J Machinery Manuf Reliab 1 50-54 (1995), 3A723
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, Composite Struct 33(2) 109-119 (1995), 4A11
Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Cheese-head bolts, Composite Struct 33(2) 95-108 (1995), 4A488
Fatigue behavior of mechanically fastened joints in composite materials, Composite Struct 33(2) 87-94 (1995), 4A766
Analysis of geometric fatigue stresses in slender web plates, J Construct Steel Res 37(1) 33-45 (1996), 8A688
Low cycle fatigue damage assessment in steel beams, Struct Eng and Mech 3(4) 341-358 (Jul 1995), 8A689
Exploring the high-cycle fatigue behavior of metals from the mesoscopic scale, J Mech Behavior Mat 6(2) 93-118 (1996), 9A859
Fretting fatigue in post-tensioned concrete beams, ACI Struct J 93(2) 172-179 (Apr 1996), 9A918
Stress transfer mechanism of socket base connections with precast concrete columns, ACI Struct J 93(3) 266-276 (Jun 1996), 11A763
Improved single-parameter tip-timing method for turbomachinery blade vibration measurements using optical laser probes, Int J Mech Sci 38(10) 1047-1058 (Oct 1996), 12A182
Application of physical methods for monitoring fatigue processes in rotor steels for estimating the residual service life of turbo-generator shaftings, J Machinery Manuf Reliab 1 104-108 (1996), 12T800

280I. Dynamic loading (impact)

Art of Practical and Precise Strain Based Measurement, Revised Edition (Pierson and Assoc, Canada, 1994) 1R13

Recovery of impact signatures in machine structures, Mech Syst Signal Processing 9(5) 465-483 (Sep 1995), 2A142

Reproducible time-of-flight measurements with a piezoelectric transducer for acoustoelastic stress evaluation, Exp Mech 35(3) 266-271 (Sep 1995), 2A156

Characterization of piezo-film sensors for direct vibration and impact measurements, Exp Mech 35(3) 224-232 (Sep 1995), 2A680

Characterization of shock accelerometers using Davies bar and laser interferometer, Exp Mech 35(3) 216-223 (Sep 1995), 2A681

Wavelet analysis of dispersive stress waves, JSME Int J Ser A 38(4) 416-424 (Oct 1995), 3A56

Crack rotation factor and dynamic fracture measurement, Eng Fracture Mech 52(6) 1029-1033 (Dec 1995), 4A761

Proceedings of the 1994 Symposium - Part I and Part II: Hypervelocity impact, October 17-19, 1994, Int J Impact Eng 17(1-6) 465-947 (1995), 5A64

Numerical simulation of the nonstationary impact interaction between deformable structural elements, J Machinery Manuf Reliab 2 16-21 (1995), 5A678

Dynamic response of rectangular plates of composite materials subjected to impact loads, Composite Struct 34(1) 55-63 (1996), 7A155

Impact dynamics of multibody systems with frictional contact using joint coordinates and canonical equations of motion, Nonlinear Dyn 9(1-2) 53-71 (Feb 1996), 7A249

Low velocity impact damage in composite sandwich beams, Composite Struct 34(1) 21-27 (1996), 7A835

Damage tolerance of CSM laminates subject to low velocity oblique impacts, Composite Struct 34(1) 101-116 (1996), 7A869

Dynamic response of elasto-plastic planar arches, Struct Eng and Mech 4(1) 9-23 (Jan 1996), 8A419

Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, J Construct Steel Res 37(2) 93-113 (1996), 10A9

New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, J Theor Appl Mech 34(2) 259-280 (1996), 10A846

Intrinsic mechanisms in reinforced concrete beam-column connection behavior, ACI Struct J 93(3) 336-346 (Jun 1996), 11A755

Nonlinear dynamics of an elastic rod with frictional impact, Nonlinear Dyn 10(2) 187-201 (Jun 1996), 12A117

Split Hopkinson bar technique to evaluate the performance of accelerometers, J Appl Mech 63(2) 353-356 (Jun 1996), 12A128

280J. Thermal loading

Aerospace Thermal Structures and Materials for a New Era (AIAA, MD) 3N21

Identification of high-temperature mechanical properties of metals in designing technological equipment, J Machinery Manuf Reliab 2 63-67 (1995), 5T612

Strength of concrete subjected to high temperature and biaxial stress: Experiments and modeling, Mat Struct 28(184) 575-581 (Dec 1995), 5A676

Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7 (VCH Publ, New York, 1994) 6R16

Apparatus for measuring the energy of pulse radiation of a laser, J Tech Phys 36(4) 421-428 (1995), 9A860

High-temperature deformation measurements using digital-image correlation, Exp Mech 36(1) 64-70 (Mar 1996), 10A847

Technique for calculating the stresses in the elements of construction-machine metallic structures with allowance for hinged joint clearances, J Machinery Manuf Reliab 6 35-39 (1995), 10A1032

Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, Composite Struct 34(2) 325-338 (1996), 11A702

280K. Creep, relaxation and plastic flow testing

Experimental observation and numerical prediction of planar entry flow and die swell for molten polyethylenes, J Non-Newtonian Fluid Mech 59(2-3) 129-153 (Sep 1995), 2A682

Justification and refinements of model B3 for concrete creep and shrinkage - Part 2: Updating and theoretical basis, Mat Struct 28(182) 488-495 (Oct 1995), 3A486

Rheological behavior of fresh concrete under different stresses (French), Mat Struct 28(183) 545-549 (Nov 1995), 4A767

Identification of high-temperature mechanical properties of metals in designing technological equipment, J Machinery Manuf Reliab 2 63-67 (1995), 5T612

Speckle-photography study of nuclear-waste vault deformations, Exp Mech 36(1) 42-48 (Mar 1996), 10A848

System for measuring biaxial creep strains over short gage lengths, Exp Mech 36(1) 84-91 (Mar 1996), 10A849

Development of multiaxial creep testing machine using cruciform specimen (Japancse), J Soc Mat Sci Japan 45(5) 559-565 (May 1996), 12A783

280N. Hardness, abrasion, and wear testing

Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), J Soc Mat Sci Japan 44(504) 1127-1132 (Sep 1995), 3A724

Small depth indentation of UHMW (polyethylene), Trans Can Soc Mech Eng 19(3) 247-259 (1995), 3A725

Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - 1st report: Theoretical foundation, Int J Japan Soc Precision Eng 29(2) 156-161 (Jun 1995), 3A739

Modern methods for hardening machine parts, J Machinery Manuf Reliab 2 58-62 (1995), 5T679

Principle and application of scanning probe microscope (Japancse), J Japan Soc Precision Eng 62(1) 46-51 (Jan 1996), 7T870

Controlled indentation: A general approach to determine mechanical properties of brittle materials, Acta Mat 44(3) 1127-1141 (Mar 1996), 8A690

Further analysis of the size effect in indentation hardness tests of some metals, J Mat Res 10(11) 2908-2915 (Nov 1995), 8A691

Influences of stress on the measurement of mechanical properties using nanoindentation - Part I: Experimental studies in an aluminium alloy, J Mat Res 11(3) 752-759 (Mar 1996), 8A692

Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, J Tech Phys 36(4) 389-400 (1995), 9A725

Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, J Tech Phys 36(4) 375-387 (1995), 9A726

Material testing by the method of dynamic indentation, Nondestruct Test Eval 12(4) 253-261 (1996), 10A850

Evaluation of surface by an ultra-microhardness tester to measure depth of concavity - 2nd Report: Verification of R-correction at indenter tip and shallowing correction of concavity, using FEM simulation (Japanese), J Japan Soc Precision Eng 62(4) 549-553 (Apr 1996), 11T703

280R. Optical nondestructive testing (NDT)

Compton X-ray backscatter depth profilometry for aircraft corrosion inspection, Mat Eval 53(8) 936-941 (Aug 1995), 1A846

Dual twin image effect from a waveguide hologram, Opt Lasers Eng 23(2-3) 137-143 (1995), 1A847

Effect of axial force on holographic measurement of complex elastic modulus, Int J Japan Soc Precision Eng 29(1) 50-55 (Mar 1995), 1A848

Fiber optic strain gauge linearization, Smart Mat Struct 4(2) 134-138 (Jun 1995), 1A849

Hybrid neural network for image classification, Opt Lasers Eng 23(2-3) 167-183 (1995), 1A850

Application of the shadow optical method to fatigue and crack closure studies, Strain 31(3) 101-106 (Aug 1995), 2A683

Automatic ordering of isochromatic fringes: A new methodology, Strain 31(3) 95-99 (Aug 1995), 2A684

Local stress state definition of structural elements using holographic interferometry, Nondestruct Test Eval 12(3) 211-218 (Aug 1995), 2A685

NDE of an epoxy-based coating by optical interferometry techniques, Opt Lasers Eng 23(4) 213-219 (1995), 2A686

Photoelastic stress analysis of orthotropic materials by using an isotropic plate, Exp Mech 35(3) 245-250 (Sep 1995), 2A687

Several factors impairing the phase measurement accuracy, Opt Lasers Eng 23(4) 199-212 (1995), 2A688

Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, J Sound Vib 185(4) 643-654 (Aug 1995), 2A689

Strain measurements using real time X-ray images, Strain 31(3) 87-94 (Aug 1995), 2A690

Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), J Japan Soc Precision Eng 61(8) 1097-1100 (Aug 1995), 2A691

Surface topography measurement using digital moire contouring: Errors and limitations, Proc Inst Mech Eng J Eng Manuf 209(B4) 317-325 (1995), 2A692

Towards RGB photoelasticity: Full-field automated photoelasticity in white light, Exp Mech 35(3) 193-200 (Sep 1995), 2A693

Damage Tolerance in Advanced Composites (Technomic, Lancaster PA, 1995) 3R16

R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), J Soc Mat Sci Japan 44(504) 1133-1137 (Sep 1995), 3A647

Scanning stress measurement method by laser photoelasticity - 1st report: Stress measurement by synthesized method, JSME Int J Scr A 38(4) 500-505 (Oct 1995), 3A721

Applying backpropagation neural networks to fringe analysis, Opt Lasers Eng 23(5) 331-341 (1995), 3A726

Automated fine grid technique for measurement of large-strain deformation maps, Opt Lasers Eng 23(5) 305-318 (1995), 3A727

Development of an optical measuring method for spindle rotation accuracy - Measuring principle and consideration on sensitivity (Japanese), J Japan Soc Precision Eng 61(9) 1302-1306 (Sep 1995), 3A728

Effect of refraction scintillations on the response of an interferometer, Waves in Random Media 5(4) 497-507 (Oct 1995), 3A729

Noisy fringe pattern demodulation by an iterative phase locked loop, Opt Lasers Eng 23(5) 355-365 (1995), 3A730

Phase demodulation in the space domain without a fringe carrier, Opt Lasers Eng 23(5) 319-330 (1995), 3A731

Spatial phase stepping method of fringe-pattern analysis, Opt Lasers Eng 23(5) 343-354 (1995), 3A732

Acquisitions and quantitative data handling of laser beam analyzer signals (French), Rev Francaise Mec 0(3) 185-189 (1995), 4T768

Holographic nondestructive testing, Mat Eval 53(12) 1353-1355 (Dec 1995), 4A769

Laser ultrasonics for the evaluation of composites and coatings, Mat Eval 53(12) 1356-1361 (Dec 1995), 4A770

Laser-optical triangulation systems provide new capabilities for remote inspection of interior surfaces, Mat Eval 53(12) 1338-1345 (Dec 1995), 4T771

Modulation in real time of the energy repartition of a laser beam (French), Rev Francaise Mec 0(3) 191-196 (1995), 4A772

Relative 3D reconstruction using multiple uncalibrated images, Int J Robotics Res 14(6) 619-632 (Dec 1995), 4A773

Stress determination by speckle interferometry (French), Rev Francaise Mec 0(3) 179-184 (1995), 4A774

Laser vibrometry measurements of rotating blade vibrations, J Eng Gas Turbines Power 117(3) 484-488 (Jul 1995), 5A159

Phase-stepped ESPI and moire interferometry for measuring stress-intensity factor and J integral, Exp Mech 35(4) 306-314 (Dec 1995), 5A672

Finite strain analysis by image processing: Smoothing techniques, Strain 31(4) 151-157 (Nov 1995), 5A680

Fringe-pattern recognition by using the polar-coordinate transform, Exp Mech 35(4) 322-328 (Dec 1995), 5A681

Progress in experimental stress analysis for Airbus aircraft design, Strain 31(4) 131-134 (Nov 1995), 5A682

Scanning moire method for obtaining smooth fringe patterns, Opt Lasers Eng 24(1) 3-17 (1996), 5A683

Quantitative stress mapping in alumina composites by optical fluorescence imaging, Acta Mat 44(2) 625-641 (Feb 1996), 6A465

Three-dimensional photoelastic analysis of pile caps, J Strain Anal Eng Des 31(1) 35-42 (Jan 1996), 6A542

Double pass retroreflection for corrosion detection in aircraft structures, Mat Eval 54(1) 80-86 (Jan 1996), 6A694

Analysis of overshooting phenomena in profile measurement by optical stylus sensor (Japanese), J Japan Soc Precision Eng 62(1) 140-144 (Jan 1996), 7A871

Calibrated noncontact exciters for optical modal analysis, Shock Vib 3(2) 107-115 (1996), 7A872

Development of optical apparatus for measuring small hole diameter (Japanese), J Japan Soc Precision Eng 62(1) 145-149 (Jan 1996), 7A873

Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, J Japan Soc Precision Eng 62(1) 150-154 (Jan 1996), 7A874

Digital double-pulse holographic interferometry for vibration analysis, Shock Vib 3(2) 117-125 (1996), 7A875

Efficient application of photoelasticity in nuclear power structures design (French), Rev Francaise Mec 0(4) 293-298 (1995), 7A876

Experimental method of determining the stress-strained state (Russian), Prikl Mekh (Appl Mech) 31(5) 81-88 (1995), 7T877

Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), J Japan Soc Precision Eng 61(12) 1695-1699 (Dec 1995), 7A878

Light attenuation in a semitransparent foam sheet: Thickness measurement for industrial use, Opt Lasers Eng 24(4) 339-350 (1996), 7A879

Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, Shock Vib 3(2) 135-140 (1996), 7A880

Measurement of translational and angular vibration using a scanning laser Doppler vibrometer, Shock Vib 3(2) 141-152 (1996), 7A881

Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, Smart Mat Struct 4(4) 240-245 (Dec 1995), 7A882

Optical triangulation for dynamic gauging of cylindrical parts, Opt Lasers Eng 24(4) 351-360 (1996), 7A883

Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, Smart Mat Struct 4(4) 246-251 (Dec 1995), 7A884

Space-frequency data compression method for spatially dense laser Doppler vibrometer measurements, Shock Vib 3(2) 127-133 (1996), 7A885

Study of the optomechanical response of a diametrically loaded high-birefringent optical fiber, Smart Mat Struct 4(4) 327-333 (Dec 1995), 7A886

Nondestructive Inspection of Composite Materials (Technomic, Lancaster PA, 1995) 8N19

Measurements of solid deformation by phase-shifting interferometry, Opt Lasers Eng 24(5-6) 363-504 (1996), 8T693

New stereoscopic X-ray imaging technique using a single X-ray source: Theoretical analysis, NDT&E Int 29(1) 27-35 (Feb 1996), 8A694

Coupled variational principles and generalized coupled variational principles in photoelasticity, Appl Math Mech 17(1) 39-44 (Jan 1996), 9A477

New experiment-calculation mixing method used to determine stress intensity factors (Chinese), J Dalian Univ Tech 36(2) 152-156 (Mar 1996), 9A800

Evaluation of stress intensity factors in metals by photoelastic coatings and caustics, J Mech Behavior Mat 6(2) 135-145 (1996), 9A861

Evaluation of surface using an ultra-microhardness tester to measure depth of concavity - 1st Report: Influence of radius of indenter tip and comparison with the classical method of measuring concavity optically (Japanese), J Japan Soc Precision Eng 62(2) 224-229 (Feb 1996), 9A862

Improvement of interferometer accuracy with self-calibration of phase interpolation error (Japanese), J Japan Soc Precision Eng 62(2) 280-284 (Feb 1996), 9A863

Large deformation measurement by holographic interferometry, Acta Mech 115(1-4) 151-159 (1996), 9A864

Micro scanning optical sensor (Japanese), J Japan Soc Precision Eng 62(3) 351-354 (Mar 1996), 9T865

Observation of light pulses at micro-fractures of solid and the temperature estimation of the part by spectral data (Japanese), J Japan Soc Precision Eng 62(2) 290-294 (Feb 1996), 9A866

Development of 3D-measuring system by image processing: Application to dimensional inspection of small molded plastic electronic parts (Japanese), J Japan Soc Precision Eng 62(2) 285-289 (Feb 1996), 9A873

Identification of energy sources and sinks in plates by means of a scanning laser Doppler vibrometer, Noise Control Eng J 44(2) 61-68 (Apr 1996), 10A175

Trends of experimental mechanics, J Theor Appl Mech 34(2) 207-233 (1996), 10A844

Analysis of coherent gradient sensing by Fourier optics, Opt Lasers Eng 25(1) 25-53 (Jul 1996), 10T851

Characterization, production, and reconstruction of substrate guided wave holointerferograms, Exp Mech 36(1) 71-77 (Mar 1996), 10A852

Determination of necking zone using laser speckle, Strain 32(1) 9-12 (Feb 1996), 10A853

Displacement field gradient measurement using the speckle photography method, J Theor Appl Mech 34(2) 423-437 (1996), 10A854

Evaluation of fatigue damage in steels using laser speckle sensor: Change of speckle pattern by fatigue (Japanese), J Soc Mat Sci Japan 45(3) 346-351 (Mar 1996), 10A855

Noncontacting strain measurements during tensile tests, Exp Mech 36(1) 78-83 (Mar 1996), 10A856

Polychromatic x-ray method for residual-stress measurements in a subsurface layer, Exp Mech 36(1) 24-32 (Mar 1996), 10A857

Real-time optical monitoring system for dye color and concentration, Opt Lasers Eng 25(1) 13-23 (Jul 1996), 10A858

Determination of rigidities of fiber-reinforced plastic laminates using holographic interferometry, AIAA J 34(6) 1301-1303 (Jun 1996), 11T704

Development of measurement system on angular profile of the polygon mirror surface (Japanese), J Japan Soc Precision Eng 62(4) 589-593 (Apr 1996), 11A705
Development of optical measuring equipment for diameter of small and deep hole (Japanese), J Japan Soc Precision Eng 62(4) 584-588 (Apr 1996), 11T706
Optical NDE methods in the People's Republic of China: Special Issue, Opt Lasers Eng 25(2-3) 79-211 (Sep 1996), 11T707
Non Destructive Testing - Proc of 1st Joint Belgian-Hellenic Conf on Non Destructive Testing, Patras, Greece, May 1995 (Balkema, Rotterdam, Netherlands, 1996) 12N27
Application of two-refractive-index contouring on the contour difference of two compared specimens, J Nondestruct Eval 15(1) 1-10 (Mar 1996), 12A784
Curvature contours of flexed plates by a multiple illumination moire shearing interferometer, Strain 32(2) 59-62 (May 1996), 12A785
Development of hybrid method coupling moire interferometry and FE analysis, Comput Struct 60(3) 433-440 (Aug 1996), 12A786
Laser techniques for vibration measurement, Opt Lasers Eng 25(4-5) 217-372 (Nov 1996), 12A787
Solution of the axisymmetric problem of integrated photoelasticity, J Machinery Manuf Reliab 1 35-40 (1996), 12A788
Surface roughness monitoring using computer vision, Int J Machine Tools Manuf 36(7) 817-828 (Jul 1996), 12A789
TV-shearography for measuring 3D-strains, Strain 32(2) 49-57 (May 1996), 12A790
Visualization by Moire techniques (Japanese), J Japan Soc Precision Eng 62(5) 657-660 (May 1996), 12T791
Visualization and quantitative measurement of thin liquid film (Japanese), J Japan Soc Precision Eng 62(5) 628-632 (May 1996), 12T1202

280S. Acoustic NDT

Application of acoustic emission technique for estimation of initial stress (Japanese), J Soc Mat Sci Japan 44(502) 885-890 (Jul 1995), 1A851
Estimation of the stress distribution in metal using nonlinear acoustoelasticity, J Acoust Soc Am 98(3) 1496-1504 (Sep 1995), 1A852
Microwave imaging of thick composite panels with defects, Mat Eval 53(8) 926-929 (Aug 1995), 1A853
NDE of fatigue changes of composite structure by laser ultrasonic method (Russian), Mech of Composite Mat T31(3) 405-410 (Jun 1995), 1A854
Nonlinear interaction of acoustical waves due to cracks and its possible usage for cracks detection, J Vib and Control 1(3) 335-344 (Aug 1995), 1A855
Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, Composites Sci Tech 54(2) 161-168 (1995), 1A856
Ultrasonic motor using low-frequency magnetostrictive excitation for continuous and stepwise angular rotation, J Acoust Soc Am 98(2) 981-987 (Aug 1995), 1A857
Utilization of acoustic emission signals in identification testing of machine elements, Acoust Lett 18(5) 78-83 (Nov 1994), 1A858
New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, Nondestruct Test Eval 12(3) 181-196 (Aug 1995), 2A318
Advances in air-coupled ultrasonic transducers, Nondestruct Test Eval 12(3) 155-180 (Aug 1995), 2T694
Air-coupled ultrasonic characterization of composite plates, Mat Eval 53(10) 1186-1190 (Oct 1995), 2A695
Application of multi dimensional cluster analysis in identification of defects in fiber composites, Nondestruct Test Eval 12(3) 197-210 (Aug 1995), 2A696
Application of the L_{CR} ultrasonic technique for evaluation of post-weld heat treatment in steel plates, NDT&E Int 28(4) 235-242 (Aug 1995), 2A697
Comparison of Lamb waves and pulse echo in detection of near-surface defects in laminate plates, NDT&E Int 28(4) 215-223 (Aug 1995), 2A698
Identification of stiffness reductions using natural frequencies, J Eng Mech 121(10) 1106-1113 (Oct 1995), 2A699
Efficient parallel sampling in vector field tomography, Inverse Prob 11(5) 995-1003 (Oct 1995), 3A295
Acoustic emission source characterization in concrete under biaxial loading, Mat Struct 28(182) 444-449 (Oct 1995), 3A733
Feasibility of detecting pre-cracking fatigue damage in metal-matrix composites by ultrasonic techniques, Composites Sci Tech 55(1) 63-73 (1995), 3A734
Identification of residual impact properties of materials by Acousto-ultrasonics: A Pattern Recognition approach, Acta Mech Sinica 11(1) 34-43 (1995), 3A735
Local phase velocity measurements in plates, J Sound Vib 187(2) 241-252 (Oct 1995), 4A233
Non-destructive testing of honeycomb sandwich structures using elastic waves, J Sound Vib 187(2) 253-269 (Oct 1995), 4A234
Ultrasonic wave propagation through a cracked solid, Wave Motion 22(3) 297-310 (Nov 1995), 4A239
Acoustic emission study of failure mechanisms in ceramic matrix composite under longitudinal tensile loading, J Composite Mat 29(15) 1946-1961 (1995), 4A775
Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, Mat Eval 53(12) 1348-1352 (Dec 1995), 4A776
Propagation-backpropagation method for ultrasound tomography, Inverse Prob 11(6) 1225-1232 (Dec 1995), 4A777
Simplified NDE of a closed vertical crack using ultrasonics, NDT&E Int 28(5) 289-296 (Oct 1995), 4A778
Ultrasonic evaluation of fatigue damage in metal matrix composites, Mech Mat 21(4) 251-263 (Nov 1995), 4A779
Ultrasonic inspection system for tubular products using real-time digital signal processing, NDT&E Int 28(5) 303-306 (Oct 1995), 4A780
Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, J Eng Gas Turbines Power 117(3) 417-423 (Jul 1995), 5A634
Surface roughness measurement by ultrasonic sensing for in-process monitoring, J Eng Indust 117(3) 439-447 (Aug 1995), 5A684
Non-contact measurement of a gear (4th Report): Development of a measuring system for tooth profiles using the optical 2 point method (Japanese), J Japan Soc Precision Eng 61(11) 1589-1593 (Nov 1995), 5T822
Acousto-ultrasonic technique applied to filled-polymer damage assessment, J Spacecraft Rockets 32(5) 866-869 (Oct 1995), 5A1241
Numerical modeling of acoustic emission signal propagation in a thin strip, J Czech Slovak Mech Eng 3(2) 141-149 (Jun 1993), 6A182
Identification of acoustic-vibratory system by acoustic measurement, Shock Vib 3(1) 27-37 (1996), 6A272
Estimation of the orientation distribution of short-fiber composites using ultrasonic velocities, J Acoust Soc Am 99(1) 283-291 (Jan 1996), 6A452
Ultrasonic measurements and static load tests in bridge evaluation, NDT&E Int 28(6) 331-337 (Dec 1995), 6A695
Ultrasonic nondestructive evaluation of inhomogeneous plane strain in elastic medium, Res Nondestructive Eval 7(1) 55-68 (1995), 6A696
Ultrasonic stress measurements based on the generalized acoustic ratio technique, Int J Solids Struct 33(8) 1157-1174 (Mar 1996), 6A697
Wavelet transform in vibration analysis for mechanical fault diagnosis, Shock Vib 3(1) 17-26 (1996), 6A698
Advanced NDT methods for evaluating concrete bridges and other structures, NDT&E Int 28(6) 349-357 (Dec 1995), 6A766
Using acoustic reflectometry to determine breathing tube position and patency, J Sound Vib 188(2) 167-188 (Nov 1995), 6A1369
Acoustic emission monitoring of wear in hacksaw blades, Acoust Lett 18(11) 204-211 (May 1995), 7A887
Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, Mat Eval 54(2) 314-322 (Feb 1996), 7A888
Preload measurement in sleeve bolts using an ultrasonic technique, Mat Eval 54(2) 308-313 (Feb 1996), 7A889
Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, Composites Sci Tech 55(4) 405-412 (1995), 7A890
Three-component recording of ultrasonic transient vibration by optical heterodyne interferometry, J Acoust Soc Am 99(2) 954-961 (Feb 1996), 7A891
Ultrasonic NDE of the matrix structure and the graphite shape in cast iron, J Mat Processing Tech 55(2) 85-90 (Nov 1995), 7A892
Using aural (audible) information generated directly from conventional NDE technology signals to aid the inspector in defect detection and discrimination, J Pressure Vessel Tech 118(1) 74-77 (Feb 1996), 7A893
Nondestructive Inspection of Composite Materials (Technomic, Lancaster PA, 1995) 8N19
Ultrasonic wave scattering from rough, imperfect interfaces - Part I: Stochastic interface models, J Nondestruct Eval 14(3) 109-116 (Sep 1995), 8A182
Ultrasonic wave scattering from rough, imperfect interfaces - Part II: Incoherent and coherent scattered fields, J Nondestruct Eval 14(3) 117-126 (Sep 1995), 8A183
Bridge fatigue damage evaluation and updating using non-destructive inspections, Eng Fracture Mech 53(5) 775-788 (Mar 1996), 8A592
Estimation of acoustic emission source waveforms of fracture using a neural network, NDT&E Int 29(1) 21-25 (Feb 1996), 8A695
Fatigue load monitoring in steel bridges with Rayleigh waves, J Nondestruct Eval 14(3) 83-98 (Sep 1995), 8A696
Influence of stress on the measurement of mechanical properties using nanoindentation - Part II: FE Simulations, J Mat Res 11(3) 760-768 (Mar 1996), 8A697
Numerical analysis of the radiated fields of ultrasonic transducers, J Nondestruct Eval 14(3) 137-147 (Sep 1995), 8A698
Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), Mech of Composite Mat T31(6) 792-796 (Dec 1995), 8A699
Ultrasonic inspection of long steel pipes using Lamb waves, NDT&E Int 29(1) 13-20 (Feb 1996), 8A700
Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, NDT&E Int 29(1) 37-49 (Feb 1996), 8A701
New ultrasonic technique for detection and sizing of small cracks in studs and bolts, J Nondestruct Eval 14(4) 201-206 (Dec 1995), 9A867
Simple scheme for self-focusing of an array, J Nondestruct Eval 14(4) 169-179 (Dec 1995), 9A868
Ultrasonic measurements in wood, Mat Eval 54(4) 514-517 (Apr 1996), 9A869
Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, J Sound Vib 191(5) 881-899 (Apr 1996), 10A123
Acousto-ultrasonics approach to the characterization of impact properties of a class of engineering materials, Int J Pressure Vessels Piping 67(3) 307-315 (1996), 10A284
Amplitude-modulated lock-in vibrothermography for NDE of polymers and composites, Res Nondestructive Eval 7(4) 215-228 (1996), 10A859
Focusing PVDF transducers for acoustic microscopy, Res Nondestructive Eval 7(4) 195-201 (1996), 10A860
Numerical technique for bond correction in ultrasonic measurements, Acoust Lett 19(1) 11-14 (Jul 1995), 10A861
Optimization of a miniature laser-EMAT system for pulsed ultrasonics, Nondestruct Test Eval 12(4) 273-282 (1996), 10A862
Propagation mechanism of ultrasonic waves in porous ceramics, JSME Int J Ser A 39(2) 266-271 (Apr 1996), 10A863
Roller device to scan for surface-breaking cracks and to determine crack depth by a self-calibrating ultrasonic technique, Res Nondestructive Eval 7(4) 185-194 (1996), 10A864
Structural Materials Technology: An NDT Conference - 2nd Conf, February 1996, San Diego CA (Technomic, Lancaster PA, 1996) 11N37
Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, Mat Eval 54(6) 744-748 (Jun 1996), 11A708
Flaw detection in d_{33} mode multilayer ceramic actuators using impedance-frequency scans, Mat Eval 54(6) 749-754 (Jun 1996), 11A709
Propagation of ultrasonic waves passing through an RCC test specimen (French), Mat Struct 29(189) 295-304 (Jun 1996), 11A710
Scattering of SH waves by flaws in sandwich plates and its use in flaw detection, Composite Struct 34(2) 251-261 (1996), 11A711
Non Destructive Testing - Proc of 1st Joint Belgian-Hellenic Conf on Non Destructive Testing, Patras, Greece, May 1995 (Balkema, Rotterdam, Netherlands, 1996) 12N27
Neural network classification of flaws detected by ultrasonic means, NDT&E Int 29(2) 87-93 (Apr 1996), 12A430
Quantitative estimation of material properties of porous ceramics by means of composite micromechanics and ultrasonic velocity, NDT&E Int 29(2) 95-101 (Apr 1996), 12A562
Failure mode in dry and hygrothermally aged short fiber-reinforced injection-molded polyarylamide composites by acoustic emission, Appl Composite Mat 2(5) 313-326 (1995), 12A753
Detection of flaws in sandwich plates, Composite Struct 34(4) 409-418 (1996), 12A792
Excitation of Lamb waves in pipes using dry-coupled piezoelectric transducers, J Nondestruct Eval 15(1) 11-20 (Mar 1996), 12A793
Material characterization by ultrasonic measurement (Japanese), J Japan Soc Precision Eng 62(5) 641-645 (May 1996), 12T794
Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, Appl Composite Mat 2(5) 293-311 (1995), 12A795
Phase superposition processing for ultrasonic imaging, J Sound Vib 193(5) 1015-1021 (Jun 1996), 12A796
Ultrasonic plane SH wave reflection from a uni-directional fibrous composite slab, J Sound Vib 193(5) 1069-1078 (Jun 1996), 12A797
Study of ultrasonic wave propagation through parallel arrays of immersed tubes, J Sound Vib 193(5) 1049-1068 (Jun 1996), 12A1260

280T. Electrical NDT

Active shielding of eddy current sensors: A method to focus the magnetic field in order to improve lateral resolution and coupling coefficient, NDT&E Int 28(4) 225-233 (Aug 1995), 2A700
Feasibility of under-lagging corrosion detection in steel pipe using the magnetostrictive sensor technique, NDT&E Int 28(4) 211-214 (Aug 1995), 2A701
Application of electric potential method to smart composite structures for detecting delamination, JSME Int J Ser A 38(4) 524-530 (Oct 1995), 3A736
Reliability of automatic eddy-current equipment with a rotating magnetic field, NDT&E Int 28(5) 297-301 (Oct 1995), 4A781
Discontinuity interaction and anomalous source models in through transmission eddy current testing, Mat Eval 54(1) 87-92 (Jan 1996), 6A699
Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, Mat Eval 54(1) 93-98 (Jan 1996), 6A700
Devices for the experimental determination of individual stresses from thermoelastic data, J Strain Anal Eng Des 31(1) 53-63 (Jan 1996), 6A1159
Nondestructive Inspection of Composite Materials (Technomic, Lancaster PA, 1995) 8N19
NDE of corrosion damage using electrostatic measurements, J Nondestruct Eval 14(3) 127-136 (Sep 1995), 8A702
Techniques for depth-selective, low-frequency eddy current analysis for SQUID-based NDT, J Nondestruct Eval 14(3) 149-167 (Sep 1995), 8A703
Accurate probe-response calculation in eddy current NDE by FEM, J Nondestruct Eval 14(4) 181-192 (Dec 1995), 9A43
Methods of measurements of the quality factor of piezoelectric resonators with high electrical and mechanical losses, Arch Acoust 20(4) 373-385 (1995), 9A650
Interaction of phase-shifted fields of two single-turn coils situated above a conducting medium, J Nondestruct Eval 14(4) 193-200 (Dec 1995), 9A870
Analysis of direct current potential field around multiple random cracks, Int J Fracture 75(1) 69-84 (1995), 10A865
Evaluation of electrical resistivity maps for ancient masonry, Mat Struct 29(187) 158-163 (Apr 1996), 10A866
Longitudinal AC interactions with axial slits in steel pipes, Res Nondestructive Eval 7(4) 203-214 (1996), 10A867
NDE of a crack by using closely coupled probes for DCPD technique, J Pressure Vessel Tech 118(2) 198-202 (May 1996), 10A868
Use of Eddy currents to detect the onset of damage in rotating beam fatigue tests, Nondestruct Test Eval 12(4) 243-252 (1996), 10A869
Nondestructive Testing of Materials - Studies in Applied Electromagnetics and Mechanics, Vol 8 (IOS, Netherlands, 1995) 11N34
Benchmark problems for defect size and shape determination in eddy-current NDE, J Nondestruct Eval 15(1) 21-34 (Mar 1996), 12A798
Eddy current measurement of the wall thickness and conductivity of circular non-magnetic conductive tubes, NDT&E Int 29(2) 103-109 (Apr 1996), 12A799

280U. Other NDT

Improvement of in-situ circularity measurement technique based on three-point method and development of n-point method, Int J Japan Soc Precision Eng 29(1) 62-67 (Mar 1995), 1A859
Mechanical characterization of heterogeneous materials during setting, Eur J Mech A 14(4) 633-656 (1995), 1A860
Thermal NDE using microwave sources, Mat Eval 53(8) 942-948 (Aug 1995), 1A861
Feedforward neural networks for fault diagnosis and severity assessment of a screw compressor, Mech Syst Signal Processing 9(5) 485-496 (Sep 1995), 2A140
High pressure air compressor valve fault diagnosis using feedforward neural networks, Mech Syst Signal Processing 9(5) 527-536 (Sep 1995), 2A141
Optical fiber sensing technique for edge-induced and internal delamination detection in composites, Smart Mat Struct 4(3) 164-169 (Sep 1995), 2A342
Application of orthogonal wavelets to carry gear damage detection, Mech Syst Signal Processing 9(5) 497-507 (Sep 1995), 2A702
Composite structure development decisions using X-ray CT measurements, Mat Eval 53(10) 1198-1203 (Oct 1995), 2A703
Determination of residual stresses using large shearing speckle interferometry and the hole drilling method, Opt Lasers Eng 23(4) 233-244 (1995), 2A704
Measurement of 3D objects using gray code projection (Japanese), J Japan Soc Precision Eng 61(8) 1101-1105 (Aug 1995), 2A705

Measurement of solidification rate during non-planar solidification, Exp Tech 19(5) 11-13 (Oct 1995), 2A706
Model-uncertainty impact and damage-detection accuracy in plate girder, J Struct Eng 121(10) 1409-1417 (Oct 1995), 2A707
Monitoring crack growth through change of modal parameters, J Sound Vib 186(2) 325-343 (Sep 1995), 2A708
Monitoring of biaxial tests of ceramic materials by digital speckle interferometry, Exp Tech 19(5) 15-19 (Oct 1995), 2A709
Rare earth doped fiber for structural damage assessment, Smart Mat Struct 4(3) 179-185 (Sep 1995), 2A710
Software analysis of SPM topographic image (Japanese), J Japan Soc Precision Eng 61(8) 1082-1085 (Aug 1995), 2T711
Two-dimensional fast Fourier transform and power spectrum for surface roughness in 3Ds, Proc Inst Mech Eng J Eng Manuf 209(B5) 381-391 (1995), 2A712
Benefits of operational load monitoring in civil transport aircraft, Proc Inst Mech Eng J Aerospace Eng 209(G3) 171-176 (1995), 2A796
Tool failure detecting by ID3, Int J Japan Soc Precision Eng 29(2) 140-145 (Jun 1995), 3A626
Application of Choi-Williams reduced interference time frequency distribution to machinery diagnostics, Shock Vib 2(6) 437-444 (1995), 3A737
Automatic detection of cracks on ceramic Al_2O_3 using diffusion of laser light, Int J Japan Soc Precision Eng 29(2) 168-175 (Jun 1995), 3A738
Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - 1st report: Theoretical foundation, Int J Japan Soc Precision Eng 29(2) 156-161 (Jun 1995), 3A739
Data processing and calibration of coordinate measuring machine, Int J Japan Soc Precision Eng 29(2) 105-108 (Jun 1995), 3A740
Factorization method for the 3D x-ray transform, Inverse Prob 11(5) 983-994 (Oct 1995), 3A741
Fiber optic method for detection of impact induced damage in composite laminates (Japanese), J Soc Mat Sci Japan 44(504) 1196-1200 (Sep 1995), 3A742
Measurement of in-plane vibration by using an improved laser speckle interferometer with the double-aperture method, Int J Japan Soc Precision Eng 29(2) 176-181 (Jun 1995), 3A743
Single incidence X-ray stress measurement for all plane stress components using imaging plate of 2D X-ray detector (Japanese), J Soc Mat Sci Japan 44(504) 1138-1143 (Sep 1995), 3A744
Strip element method for characterization of flaws in sandwich plates, JSME Int J Ser A 38(4) 554-562 (Oct 1995), 3A745
Crack detection and measurement using laser pulse heating and thermal microscopy, Mat Eval 53(12) 1332-1334 (Dec 1995), 4T782
Nondestructive damage evaluation of a structure from limited modal parameters, Earthquake Eng Struct Dyn 24(11) 1427-1436 (Nov 1995), 4A783
Radar assessment of structural concrete using neural networks, NDT&E Int 28(5) 281-288 (Oct 1995), 4A784
Geometrical tolerances: Improved linear approximation of least squares evaluation of circularity by minimum variance, Int J Machine Tools Manuf 36(3) 355-366 (Mar 1996), 5A61
Integrated strategy for predictive maintenance of AC induction motors, Shock Vib Digest 27(6) 6-13 (Dec 1995), 5A685
Decomposition of gear motion signals and its application to gearbox diagnostics, J Vib Acoust 117(3(A)) 363-369 (Jul 1995), 5A820
Damage evaluation in cracked vibrating beams using experimental frequencies and FE models, J Vib and Control 2(1) 69-86 (Feb 1996), 6A122
Anomalous magnetic source defect modeling, Res Nondestructive Eval 7(1) 1-12 (1995), 6A701
Civil and structural engineering measurements with interferometry, shearography, and holography, Opt Lasers Eng 24(2-3) 87-288 (1996), 6T702
Comparison of autoregressive modeling techniques for fault diagnosis of rolling element bearings, Mech Syst Signal Processing 10(1) 1-17 (Jan 1996), 6A703
Crystallographic properties of bulk GaN crystals grown at high pressure, Acta Phys Polonica A 88(4) 799-802 (Oct 1995), 6A704
Fault features of large rotating machinery and diagnosis using sensor fusion, J Sound Vib 188(2) 227-242 (Nov 1995), 6A705
Profile measurement with no standard: Verification experiment for profile measurement along a circle (Japanese), J Japan Soc Precision Eng 61(12) 1700-1704 (Dec 1995), 7A484
Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - Second report: Simulation and experimental verification, Int J Japan Soc Precision Eng 29(3) 253-258 (Sep 1995), 7T894
Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), J Soc Mat Sci Japan 44(507) 1456-1463 (Dec 1995), 7A895
Development of vibration analysis using contact transducers applied to periodic machine condition monitoring, Shock Vib Digest 28(1) 8-13 (Feb 1996), 7A896
Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), J Soc Mat Sci Japan 44(507) 1464-1469 (Dec 1995), 7A897
Simple and effective error separation method for roundness measurement, Int J Japan Soc Precision Eng 29(3) 245-246 (Sep 1995), 7A898
System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, Int J Japan Soc Precision Eng 29(3) 247-252 (Sep 1995), 7A899
Radar signal interpretation using neural network for defect detection in concrete, Mat Eval 54(3) 393-397 (Mar 1996), 8A344
Measurement and analysis of the 3D form of curved surfaces, Int J Machine Tools Manuf 36(5) 597-610 (May 1996), 8A704
Testing system for measuring tire impression stress distribution (Chinese), J Dalian Univ Tech 35(3) 348-351 (Jun 1995), 8A777
Angle sensor with scanning tunneling microscopy (1st Report): Error analysis and pitch measurement with two scanning tunneling microscopy tips (Japanese), J Japan Soc Precision Eng 62(3) 403-407 (Mar 1996), 9A439
Application of a laser-beam sensor to pipe inspection (Japanese), J Japan Soc Precision Eng 62(3) 363-367 (Mar 1996), 9T871
Automated inspection of printed circuit board patterns referenced to CAD data, Int J Japan Soc Precision Eng 29(4) 311-317 (Dec 1995), 9A872
Development of 3D-measuring system by image processing: Application to dimensional inspection of small molded plastic electronic parts (Japanese), J Japan Soc Precision Eng 62(2) 285-289 (Feb 1996), 9A873
Multilayer eddy current micro sensor for nondestructive inspection of small diameter pipes (Japanese), J Japan Soc Precision Eng 62(3) 359-362 (Mar 1996), 9T874
Profile measurement using a liquid crystal projector: Measurements of surface with locally different reflectivity, Int J Japan Soc Precision Eng 29(4) 353-355 (Dec 1995), 9T875
Study for crack detection technique on black color ceramics using FID, Int J Japan Soc Precision Eng 29(4) 318-324 (Dec 1995), 9A876
Studies of composition of surfaces and interfaces with the use of Auger electron spectroscopy, Acta Phys Polonica A 89(2) 183-193 (Feb 1996), 9T988
Nondestructive evaluation of corrosion by fractal geometry, Res Nondestructive Eval 7(4) 229-238 (1996), 10A762
Adaptive and compensation methods in free-form surface assessment, Proc Inst Mech Eng J Eng Manuf 210(B2) 135-145 (1996), 10A870
Residual stress measurement in steel plates and welds using critically refracted longitudinal (L_{CR}) waves, Res Nondestructive Eval 7(4) 169-184 (1996), 10T871
Handbook of Measurement of Residual Stresses (Fairmont Press, Lilburn GA, 1996) 11N29
Vibration analysis and diagnosis of a cracked shaft, J Sound Vib 192(3) 607-620 (May 1996), 11A151
Application of wavelets to gearbox vibration signals for fault detection, J Sound Vib 192(5) 927-939 (May 1996), 11A362
Current status and future challenges in endpoint detection techniques for mechanical planarization process (Japanese), J Japan Soc Precision Eng 62(4) 507-512 (Apr 1996), 11T615
Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, Mat Struct 29(189) 286-294 (Jun 1996), 11A712
Extraction of form error features using the Simulated Annealing Method with Bezier Templates (Japanese), J Japan Soc Precision Eng 62(4) 522-525 (Apr 1996), 11A713
Study for crack detecting technique on ferrite ceramics by scanning detecting FID (Japanese), J Japan Soc Precision Eng 62(4) 579-583 (Apr 1996), 11A714
Probabilistic assessment of non-destructively determined flaws in welds, Fusion Eng Des 31(1) 1-8 (Apr 1996), 11A838
Development of microvibration testing device: Realizing microvibrational reference waves smaller than floor vibrations, JSME Int J Ser C 39(2) 272-278 (Jun 1996), 12A196
Application of neural networks to flank wear prediction, Mech Syst Signal Processing 10(3) 265-276 (May 1996), 12A684
Application of physical methods for monitoring fatigue processes in rotor steels for estimating the residual service life of turbo-generator shaftings, J Machinery Manuf Reliab 1 104-108 (1996), 12T800
Imaging technique of very small change using 2D lock-in amplifier systems (Japanese), J Japan Soc Precision Eng 62(5) 649-652 (May 1996), 12T801
Instantaneous color-coding of 3D shape (Japanese), J Japan Soc Precision Eng 62(5) 646-652 (May 1996), 12T802
NDT of welds: State of the art, NDT&E Int 29(2) 111-117 (Apr 1996), 12A803
Variation of the stress dependent magnetic flux leakage signal with defect depth and flux density, NDT&E Int 29(2) 79-86 (Apr 1996), 12A804

280W. Instrumentation

High Pressure Technology - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 1N22
Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, Int J Japan Soc Precision Eng 29(1) 86-87 (Mar 1995), 1T862
Measurement of surface roughness with small waviness by contact stylus instrument correcting specimen orientation, Int J Japan Soc Precision Eng 29(1) 74-79 (Mar 1995), 1A863
Natural net-based monitoring of steel beams, J Acoust Soc Am 98(3) 1505-1509 (Sep 1995), 1A864
Fabrication of high frequency gratings for high temperature, Exp Tech 19(5) 28-29 (Oct 1995), 2A326
Assessment and data processing on surface roughness instruments (Japanese), J Japan Soc Precision Eng 61(8) 1077-1081 (Aug 1995), 2T713
Data processing and profile evaluation on roundness and cylindricity measuring instruments (Japanese), J Japan Soc Precision Eng 61(8) 1073-1076 (Aug 1995), 2T714
Method for determining critical strain gage size in anisotropic materials with large repeating unit cells, Exp Tech 19(5) 25-27 (Oct 1995), 2A715
Russian strain gages: Update, Exp Tech 19(5) 8 (Oct 1995), 2T716
Study of atomic scale processing using an atomic force microscope (Japanese), J Japan Soc Precision Eng 61(8) 1121-1125 (Aug 1995), 2T717
Analysis of multiaxis vibration simulators, Shock Vib 2(6) 461-470 (1995), 3A148
Acoustic emission source characterization in concrete under biaxial loading, Mat Struct 28(182) 444-449 (Oct 1995), 3A733
Development of noncontact-stereovision-type probe for 3D coordinate measuring machine, Int J Japan Soc Precision Eng 29(2) 109-112 (Jun 1995), 3A746
Theoretical study on the influence of some constituent material properties on the behavior of 1-3 connectivity composite transducers, J Acoust Soc Am 98(4) 2187-2196 (Dec 1995), 3A747
Surface flaws using a modified AC magnetic bridge, Exp Mech 35(4) 367-373 (Dec 1995), 5A674
Development of an Ultra-precision angle sensor: Compensation of the thermal drift of the light source (Japanese), J Japan Soc Precision Eng 61(11) 1609-1613 (Nov 1995), 5T686
Effect of interface plate compliance on dynamometers incorporating octagonal strain rings, Exp Mech 35(4) 337-344 (Dec 1995), 5A687
Pressure-shear plate impact experiment for investigating transient friction, Exp Mech 35(4) 329-336 (Dec 1995), 5A815
Hertzian contact transducers for NDE, J Acoust Soc Am 99(1) 299-308 (Jan 1996), 6A706
Parametric calibration of electroacoustic transducers, J Acoust Soc Am 99(1) 426-432 (Jan 1996), 6A707
Transient fields of pulsed transducers in solids, Res Nondestructive Eval 7(1) 31-53 (1995), 6A708
Introduction to Engineering Experimentation (Prentice-Hall, Englewood Cliffs NJ, 1996) 7R10
Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), J Japan Soc Precision Eng 61(12) 1730-1734 (Dec 1995), 7A763
Short-carbon-fiber-reinforced epoxy as a piezoresistive strain sensor, Smart Mat Struct 4(4) 363-367 (Dec 1995), 7T900
Simulation of a bimorph transducer under acoustic excitation, Comput Struct 59(1) 141-148 (Apr 1996), 7A901
Application of a laser-beam sensor to pipe inspection (Japanese), J Japan Soc Precision Eng 62(3) 363-367 (Mar 1996), 9T871
Multilayer eddy current micro sensor for nondestructive inspection of small diameter pipes (Japanese), J Japan Soc Precision Eng 62(3) 359-362 (Mar 1996), 9T874
Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), J Japan Soc Precision Eng 62(3) 393-397 (Mar 1996), 9A877
Numerical analysis of asymmetrical-core two-mode fiber interferometers subjected to bending, J Intelligent Mat Syst Struct 7(1) 78-88 (Jan 1996), 9T878
Method for inspection of spiral bevel gears in Klingelnberg cyclo-palloid system, JSME Int J Ser C 39(1) 102-107 (Mar 1996), 9A998
Local stiffening effect of "double deck" bending strain gauges - Part 1, Strain 32(1) 13-22 (Feb 1996), 10A872
Strain gauge proof hydraulic testing of commercial pressure vessels, Strain 32(1) 23-27 (Feb 1996), 10A873
Bent-beam strain sensors, J Microelectromechanical Syst 5(1) 52-58 (Mar 1996), 11A347
Local stiffening effect of "double deck" bending strain gauges - Part 2, Strain 32(2) 43-48 (May 1996), 12A805
Verification of the duplex gauge using variable strains and temperatures, Strain 32(2) 39-42 (May 1996), 12A806

282. STRUCTURES (BASIC)

282A. General theory

Determination of optimum dimensions of lattice structure cross-sections, Facta Series Mech Auto Control Robotic 1(3) 365-372 (1993), 1A865
Stresses in moving linear body, Facta Series Mech Auto Control Robotic 1(3) 349-363 (1993), 1T866
Elastic-plastic hysteresis analysis of truss structures subject to fluctuating loads based on energy principle (Japanese), Proc JSCE 519(I-32) 57-66 (Jul 1995), 1A915
Dynamic inelastic structural analysis by BEMs, Arch Comput Methods Eng 2(3) 55-87 (1995), 2A718
Mechanics of biological materials and structures: Natures lessons for the engineer, Proc Inst Mech Eng C 209(C4) 221-235 (1995), 2A719
Menabrea and Levy and the principle of least work, Eng Struct 17(7) 536-538 (Aug 1995), 2A720
Saint-Venant's principle in pin-jointed frameworks, Int J Solids Struct 33(1) 79-97 (Jan 1996), 2A721
Natural frequencies of structures with uncertain but nonrandom parameters, J Optim Theory Appl 86(3) 669-683 (Sep 1995), 2A773
Torsion constant for matrix analysis of structures including warping effect, Int J Solids Struct 33(3) 361-374 (Jan 1996), 4A785
Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), Proc JSCE 525(I-33) 97-108 (Oct 1995), 5A688
Method of sensitivity analysis based on the characteristics of sensitivity coefficients of framed structures (Japanese), Proc JSCE 525(I-33) 127-137 (Oct 1995), 5T689
Applied Strength of Materials, Third Edition (Prentice-Hall, Englewood Cliffs NJ, 1996) 6R14
Steel Plated Structures (Springer-Verlag, Wien, 1995) 6N27
Creep analysis of continuous grillage composite girders (Japanese), Proc JSCE 526(II) 11-20 (Nov 1995), 6A438
Reliability analysis method for structural stiffness, Chinese J Aeronaut 8(1) 29-35 (Feb 1995), 6A709
Two theorems on statical indeterminacy of structures, Int J Solids Struct 33(8) 1221-1228 (Mar 1996), 6A710
Modal superposition method for nonlinear structures, J Sound Vib 189(3) 315-339 (Jan 1996), 7A122
Design of Building Structures, First Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 8N13
Dynamics of structural systems with spatial randomness, Int J Solids Struct 33(11) 1651-1669 (May 1996), 8A95
Hydrogen embrittlement of prestressing steel (Japanese), Proc JSCE 532(V-30) 131-140 (Feb 1996), 9A490
Fundamental study on strain dispersion function of the grid panel type buried joint (Japanese), Proc JSCE 532(V-30) 77-87 (Feb 1996), 9A879
Probabilistic model for concrete subjected to variable loading, Arch Civil Eng 41(3) 477-485 (1995), 9A880
Structural Analysis, Design and Control by the Virtual Distortion Method (Wiley, New York, 1995) 10R19
Generation of misfit dislocation structures at interphase boundaries in lamellar intermetallic compounds, J Mech Behavior Mat 6(4) 275-283 (1996), 10A874
Vibrational imperfection sensitivity of Augusti's model structure in the vicinity of nonlinear static state, Int J Non-Linear Mech 31(2) 229-236 (Mar 1996), 10A875
Design of Steel Structures (Chapman and Hall, New York, 1995) 11R23
Structural Stability and Design - Proc of Int Conf, Sydney, Oct-Nov 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N36

282B. Limit design (shakedown)

Corrosion influence on exploitation load capacity of steel road bridges (Polish), Inzynieria Budownictwo 52(10) 523-527 (1995), 3A748
Kinematic criteria of dynamic shakedown extended to nonassociative constitutive laws with saturation nonlinear harding, Rend Mat Acc Lincei VI(IX) 55-64 (1995), 3A749

Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, Appl Math Mech 16(8) 791-799 (Aug 1995), 4A786
Shakedown theorems extended to elastic non perfectly plastic bodies, Mech Res Commun 22(6) 571-576 (Dec 1995), 4T787
Structural Concrete: Finite-Element Analysis for Limit-State Design (Telford, London, 1995) 5R18
Atlas of Limit Loads of Metal Plates, Shells, and Disks (Elsevier Sci, New York, 1995) 5N21
Case studies on the elastic-plastic creep in the metallic matrix of fiber-reinforced composite materials, Arch Appl Mech 66(3) 159-167 (Jan 1996), 8A451
Quadratic programming for degenerate shakedown problems of bar structures, Mech Res Commun 23(2) 195-203 (Apr 1996), 8T705
One procedure for determination of limit loading of built-in portal frame of one bay with movable joints, Facta Univ Architec Civil Eng 1(2) 187-195 (1995), 11T715
Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints, Int J Numer Methods Eng 39(12) 2031-2053 (Jun 1996), 12A807

282C. Structural optimization

Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, Eng Trans 43(1-2) 45-70 (1995), 1A54
Stochastic multi-objective optimization of a viscoelastic composite plate (Russian), Mech of Composite Mat T31(3) 363-369 (Jun 1995), 1A486
Computational procedures for topological shape design, Comput Methods Appl Mech Eng 125(1-4) 257-285 (Sep 1995), 1A867
Continuum approach for second-order shape design sensitivity of elastic solids with loaded boundaries, Int J Numer Methods Eng 38(17) 2979-3004 (Sep 1995), 1A868
Discrete and continuous variable structural optimization tabu search, Eng Optim 24(3) 177-196 (Jul 1995), 1A869
Economic parameters in the conceptual design optimization of an air-taxi aircraft, J Aircraft 32(4) 696-702 (Aug 1995), 1A870
Genetic algorithms in truss topological optimization, Int J Solids Struct 32(22) 3341-3357 (Nov 1995), 1A871
Knowledge-based discrete optimization of truss structures, Eng Trans 43(1-2) 313-325 (1995), 1A872
Multi-criterion optimization of strengthened hybrid composite panels (Russian), Mech of Composite Mat T31(3) 370-377 (Jun 1995), 1A873
Neural dynamics model for structural optimization: Theory, Comput Struct 57(3) 383-390 (Nov 1995), 1A874
Neural dynamics model for structural optimization: Application to plastic design of structures, Comput Struct 57(3) 391-399 (Nov 1995), 1A875
Optimal placement of damped struts using simulated annealing, J Spacecraft Rockets 32(4) 653-661 (Aug 1995), 1A876
Optimization of the discrete system using an importance sampling technique (Japanese), Proc JSCE 519(I-32) 223-232 (Jul 1995), 1A877
Reliability based optimal design of reinforced concrete frames, Comput Struct 57(4) 651-661 (Nov 1995), 1A878
Shape design sensitivity analysis via material derivative: Adjoint variable technique for 3D and 2D curved BEs, Int J Numer Methods Eng 38(17) 2839-2866 (Sep 1995), 1A879
Shape optimization of 2D elastic structures using adaptive grids, Eng Trans 43(1-2) 137-150 (1995), 1A880
Structural optimization with parameter-transfer FE, Meccanica 30(3) 291-304 (Jun 1995), 1A881
Optimality and safety of rigidly- and flexibly-jointed steel frames, J Construct Steel Res 35(2) 189-215 (1995), 1A917
Subsonic wing planform design using multidisciplinary optimization, J Aircraft 32(4) 746-753 (Aug 1995), 1A1105
Performance based optimization of high speed proprotors, J Am Helicopter Soc 40(3) 92-100 (Jul 1995), 1A1135
Design of eight-bolt end-plate connection considering both the beam and column sides of the connection, Asian J Struct Eng 1(2) 187-196 (1995), 2A722
Design sensitivity analysis and optimization tool (DSO) for shape design applications, Comput Syst Eng 6(2) 151-175 (Apr 1995), 2A723
Improved two-point function approximations for design optimization, AIAA J 33(9) 1720-1727 (Sep 1995), 2A724
Merits and limitations of optimality criteria method for structural optimization, Int J Numer Methods Eng 38(18) 3087-3120 (Sep 1995), 2A725
Methods for finding feasible points in constrained optimization, AIAA J 33(9) 1715-1719 (Sep 1995), 2A726
Nonhomogeneous bars optimal with respect to ductile creep rupture, Eng Optim 25(1) 13-27 (Aug 1995), 2A727
Optimal design of disks with respect to ductile creep rupture time, Struct Optim 10(1) 54-60 (Aug 1995), 2A728
Optimal design of sandwich and laminated composite plates based on the planning of experiments, Struct Optim 10(1) 46-53 (Aug 1995), 2A729
Optimization of a racing ski, Struct Optim 10(1) 61-63 (Aug 1995), 2A730
Optimum design of plate and shell structures with discrete design variables, Asian J Struct Eng 1(1) 1-15 (1995), 2A731
Shape optimal design of elastic planar frames with nonlinear response, Int J Numer Methods Eng 38(19) 3227-3242 (Oct 1995), 2A732
Study of direct vs approximation methods in structural optimization, Struct Optim 10(1) 64-66 (Aug 1995), 2A733
Topological optimization of truss structures using simulated annealing, Eng Optim 24(4) 239-259 (Aug 1995), 2A734
Structural-control system optimization with variable actuator masses, AIAA J 33(9) 1709-1714 (Sep 1995), 2A738
Structural and Mulidisciplinary Optimization - Proc of 1st World Congress of Structural and Multidisciplinary Optimization, May 28 - June 2, 1995, Goslar, Germany (Pergamon, Tarrytown, NY, 1995) 3N25
Automotive occupant dynamics optimization, Shock Vib 2(6) 471-479 (1995), 3A194
Adaptive topology optimization, Struct Optim 10(2) 100-112 (Oct 1995), 3A750
Adaptive topology optimization, Struct Optim 10(2) 100-112 (Oct 1995), 3A750
Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, JSME Int J Ser A 38(4) 458-464 (Oct 1995), 3A751
Component mode synthesis-based design optimization method for local structural modification, Struct Optim 10(2) 128-136 (Oct 1995), 3A752
Concurrent structural optimization on massively parallel supercomputer, J Struct Eng 121(11) 1588-1597 (Nov 1995), 3A753
Continuum sensitivity method for reliability-based structural design and optimization, Mech Struct Machines 23(4) 497-520 (1995), 3A754
Design change to realize homologous deformation, JSME Int J Ser A 38(4) 453-457 (Oct 1995), 3A755
Discrete-variable optimal structural design using tabu search, Struct Optim 10(2) 87-93 (Oct 1995), 3A756
General purpose procedure for reliability based structural optimization under parametric uncertainties, Adv Eng Software 23(1) 7-14 (1995), 3A757
Generalized topology design of structures with a buckling load criterion, Struct Optim 10(2) 71-78 (Oct 1995), 3A758
Mode tracking issues in structural optimization, AIAA J 33(10) 1926-1933 (Oct 1995), 3A759
Nested approach to structural optimization in nonsmooth mechanics, Struct Optim 10(2) 79-86 (Oct 1995), 3A760
Object-oriented optimization of discrete structures, AIAA J 33(10) 1940-1945 (Oct 1995), 3A761
Optimization of continuous beams for minimum displacement, Arch Civil Eng 41(3) 411-431 (1995), 3A762
Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, Struct Optim 10(2) 122-127 (Oct 1995), 3A763
Pseudo-fully stressed design approach for optimum design of steel frames, Int J Numer Methods Eng 38(20) 3513-3527 (Oct 1995), 3A764
Structural optimization with approximate sensitivities, Comput Struct 58(2) 407-418 (Jan 1996), 3A765
Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, J Sound Vib 187(4) 683-693 (Nov 1995), 4A150
Application of genetic algorithm for the support location optimization of beams, Comput Struct 58(4) 797-800 (Feb 1996), 4A543
Artificial neural network and genetic algorithm for the design optimization of industrial roofs: A comparison, Comput Struct 58(4) 747-755 (Feb 1996), 4A788
Dynamic stiffening of orthogonal beam grillages, J Sound Vib 187(2) 281-286 (Oct 1995), 4A789
Effect of general sparse matrix algorithm on optimization of space structures, AIAA J 33(12) 2442-2444 (Dec 1995), 4T790
Improved fuzzy linear programming model for structure designs, Comput Struct 58(3) 471-477 (Feb 1996), 4A791
Optimal frequency design of tower structures via an approximation concept, Comput Struct 58(3) 445-452 (Feb 1996), 4A792
Optimization of truss topology using tabu search, Int J Numer Methods Eng 38(23) 4035-4052 (Dec 1995), 4A793
Parallel processing in optimal structural design using simulated annealing, AIAA J 33(12) 2386-2392 (Dec 1995), 4A794
Sensitivity analysis and optimization of truss-beam components of arbitrary cross-section - I: Axial stresses, Comput Struct 58(4) 727-737 (Feb 1996), 4A795
Structural optimization of guyed trusses, AIAA J 33(12) 2393-2398 (Dec 1995), 4A796
Shape optimization with p adaptivity, AIAA J 33(12) 2399-2405 (Dec 1995), 4A861
Optimal design for non-steady-state metal forming processes - I: Shape optimization method, Int J Numer Methods Eng 39(1) 33-50 (Jan 1996), 5A566
Optimal design for non-steady-state metal forming processes - II: Application of shape optimization in forging, Int J Numer Methods Eng 39(1) 51-65 (Jan 1996), 5A567
Discrete variable optimization of plate structures using dual methods, Comput Struct 58(6) 1131-1138 (Mar 1996), 5A690
Efficient DCOC algorithm based on high-quality approximations for the problems including eigenvalue constraints, Comput Methods Appl Mech Eng 128(3-4) 383-394 (Dec 1995), 5A691
Evolutionary structural optimization for dynamic problems, Comput Struct 58(6) 1067-1073 (Mar 1996), 5A692
Optimal prestress of structures with frictional unilateral contact interfaces, Arch Appl Mech 66(1-2) 71-81 (Dec 1995), 5A693
Optimality conditions for shakedown design of trusses, Comput Mech 16(6) 369-378 (Nov 1995), 5A694
Optimization of the clubface shape of a golf driver to minimize dispersion of off-center shots, Comput Struct 58(6) 1217-1224 (Mar 1996), 5A695
Nonlinear multidisciplinary design optimization using system identification and optimal control theory, Comput Methods Appl Mech Eng 128(3-4) 419-432 (Dec 1995), 5A1000
Structural Optimization - Proc of Computer Aided Optimum Design of Structures IV (Comput Mech, Billerica MA, 1995) 6N28
Aspects of truss topology optimization, Struct Optim 10(3-4) 173-179 (Dec 1995), 6A711
Comparison of probabilistic and deterministic optimizations using genetic algorithms, Struct Optim 10(3-4) 247-257 (Dec 1995), 6A712
Design for maximal flexibility as a simple computational model of damage, Struct Optim 10(3-4) 258-268 (Dec 1995), 6A713
Design of structure-control systems with transient response constraints exhibiting relative minima, Struct Optim 10(3-4) 167-172 (Dec 1995), 6A714
Exact structural reanalysis by a first-order reduced basis approach, Struct Optim 10(3-4) 153-158 (Dec 1995), 6A715
FE-shape sensitivity of elastoplastic response, Struct Optim 10(3-4) 231-238 (Dec 1995), 6A716
Integrated optimum design of structure and H^{∞} control system, AIAA J 34(1) 159-165 (Jan 1996), 6A717
Multicriterion optimization of space trusses with stiffness variation, Comp Assisted Mech Eng Sci 2(4) 321-341 (1995), 6A718
Optimal design of structures under impact loading, Shock Vib 3(1) 69-81 (1996), 6A719
Optimal orientation of orthotropic materials for plates designed against buckling, Struct Optim 10(3-4) 191-196 (Dec 1995), 6A720
Optimal physically nonlinear trusses, Struct Optim 10(3-4) 159-166 (Dec 1995), 6A721
Optimization of a frame structure subjected to a plastic deformation, Struct Optim 10(3-4) 197-208 (Dec 1995), 6A722
Optimization of structures under technological casting constraints, Struct Optim 10(3-4) 180-190 (Dec 1995), 6A723
Selection of an optimization model in optimal design of ribbed cylindrical shells, J Thoor Appl Mech 34(1) 179-188 (1996), 6T724
Structural optimization using the Newton modified barrier method, Struct Optim 10(3-4) 209-216 (Dec 1995), 6A725
Study on the optimum structural design of surface effect ships, Marine Struct 9(5) 519-544 (1996), 6A726
Design optimization as an engineering tool, Struct Optim 10(3-4) 137-152 (Dec 1995), 6A855
Optimization of Structural Topology, Shape, and Material (Springer-Verlag, New York, 1995) 7R11
Finite element model tuning using automated structural optimization system software, AIAA J 34(2) 392-399 (Feb 1996), 7A13
Multicriteria optimal design of stiffened plates - Part I: Choice of the formula for the buckling load, Thin-Walled Struct 24(4) 353-369 (1996), 7A634
Genetic algorithms as an approach to optimize real-world trusses, Int J Numer Methods Eng 39(3) 361-382 (Feb 1996), 7A902
Improved multivariate reanalysis of structures based on the structural variation method, Mech Struct Machines 24(1) 51-70 (1996), 7A903
Investigation of truss topology optimization under local buckling constraints (Chinese), J Dalian Univ Tech 35(6) 775-782 (1995), 7A904
Neural networks with modified backpropagation learning applied to structural optimization, AIAA J 34(2) 408-412 (Feb 1996), 7A905
New method of sequential approximate optimization for structural optimization problems, Eng Optim 25(3) 231-253 (Dec 1995), 7A906
Optimization of anisotropic properties for continuum bodies and structural elements using spectral methods of tensor analysis, Mech Struct Machines 24(1) 71-87 (1996), 7A907
Optimization of laminated composite structures using a bilevel strategy, Composite Struct 33(4) 193-200 (1995), 7A908
Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), J Dalian Univ Tech 35(6) 857-862 (1995), 7A909
Boundary conditions for the vorticity-velocity formulation of Navier-Stokes equations, AIAA J 34(2) 416-418 (Feb 1996), 7T1054
Structural optimization for joined-wing synthesis, J Aircraft 33(1) 214-223 (Feb 1996), 7A1160
Aeroelastic optimization of an advanced geometry helicopter rotor, J Am Helicopter Soc 41(1) 18-28 (Jan 1996), 7A1179
Integrated controls-structures design methodology: Redesign of an evolutionary test structure, J Guidance Control Dyn 19(2) 316-323 (Apr 1996), 8A272
Multiobjective optimization of structures with and without control, J Guidance Control Dyn 19(2) 392-397 (Apr 1996), 8A284
Approximate discrete variable optimization of plate structures using dual methods, Struct Eng and Mech 3(4) 359-372 (Jul 1995), 8A706
Approximate method for the optimum design of ring and stringer stiffened cylindrical panels and shells with local, inter-ring, and general buckling modal imperfections, Comput Struct 59(3) 489-527 (May 1996), 8A707
Composite sandwich-structure optimization with application to satellite components, AIAA J 34(3) 614-621 (Mar 1996), 8A708
Continuum mechanical-based formulation of the variational sensitivity analysis in structural optimization - Part I: Analysis, Struct Optim 11(1-2) 29-42 (Feb 1996), 8A709
Coupling through move limits in multidisciplinary optimization, Struct Optim 11(1-2) 50-55 (Feb 1996), 8A710
Difference quotient algorithm for finding the feasible set of (0,1) programming of optimum design of structures with discrete variables (Chinese), J Dalian Univ Tech 35(5) 612-617 (Oct 1995), 8A711
Improved semianalytical method for sensitivity analysis, Struct Optim 11(1-2) 67-69 (Feb 1996), 8A712
Integration of reduction and expansion processes in layout optimization, Struct Optim 11(1-2) 13-18 (Feb 1996), 8A713
Material derivative and control volume approaches to shape sensitivity analysis of nonlinear transient thermal problems, Struct Optim 11(1-2) 56-63 (Feb 1996), 8A714
Mixed fuzzy-probabilistic programming approach for multiobjective engineering optimization with random variables, Comput Struct 59(2) 283-290 (Apr 1996), 8A715
Modification to the sensitivity analysis algorithm for known target displacements, Struct Optim 11(1-2) 64-66 (Feb 1996), 8A716
Multivariate Hermite approximation for design optimization, Int J Numer Methods Eng 39(5) 787-803 (Mar 1996), 8A717
New approach to variable-topology shape design using a constraint on perimeter, Struct Optim 11(1-2) 1-12 (Feb 1996), 8A718
Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, Struct Eng and Mech 4(1) 25-35 (Jan 1996), 8A719
Optimal design of controlled structures, Struct Optim 11(1-2) 19-28 (Feb 1996), 8A720
Parallel algorithm for structural optimization (Chinese), J Dalian Univ Tech 35(5) 606-611 (Oct 1995), 8A721
Shape design sensitivity analysis and optimization for the nonhomogeneous Helmholtz equation by the BEM, Commun Numer Methods Eng 12(2) 95-105 (Feb 1996), 8A722
Shape optimization designs of trusses with discrete variables (Chinese), J Dalian Univ Tech 35(1) 10-16 (Feb 1995), 8A723
Shape optimization method based on implicit differentiation and node removal techniques, J Mech Des 118(1) 154-157 (Mar 1996), 8A724
Shape optimization of interior cutouts in composite panels, Struct Optim 11(1-2) 43-49 (Feb 1996), 8A725
Structural optimization by density distribution for maximization of natural frequency, J Mech Des 118(1) 157-159 (Mar 1996), 8A726
Structural optimization using a new local approximation method, Int J Numer Methods Eng 39(5) 829-846 (Mar 1996), 8A727
Topological optimization of plane elastic continuum with stress constraints (Chinese), J Dalian Univ Tech 35(1) 1-9 (Feb 1995), 8A728
Weighting objectives strategy in multicriterion fuzzy mechanical and structural optimization, Struct Eng and Mech 3(4) 373-382 (Jul 1995), 8A729

Layout optimization of truss structures with discrete sizing variables (Chinese), J Dalian Univ Tech 35(4) 458-462 (Aug 1995), 8A768

Application of artificial neural networks for the optimum design of a laminated plate, Comput Struct 59(5) 831-845 (Jun 1996), 9A881

Concrete durability as the function of stress level in sulphate attack, Arch Civil Eng 42(1) 29-45 (1996), 9A882

Construction methods of 3D shapes based on the nesting behavior of paper wasps, Int J Japan Soc Precision Eng 29(4) 361-366 (Dec 1995), 9A883

Generalized variable approximation for geometry optimization of trusses (Chinese), J Comput Struct Mech Appl 12(1) 17-25 (Feb 1995), 9A884

Multicriterion reliability-based optimization of bar structure by stochastic programming, Arch Civil Eng 42(1) 3-17 (1996), 9A885

One-dimensional searching method for positive coefficient geometric programming (Chinese), J Comput Struct Mech Appl 12(4) 495-501 (Nov 1995), 9A886

Optimal design of diamond anvils using FE analysis and simplified plasticity equilibrium equations, Inverse Prob Eng 2(3) 201-212 (1996), 9A887

Optimal frame design with discrete members using the complex method, Comput Struct 59(5) 847-858 (Jun 1996), 9A888

Optimal topologies of structure: Homogenization, pseudo-elastic approximation and the bubble-method, Eng Comput 13(1) 86-102 (1996), 9A889

Optimization of continuous beams for minimum displacement, Arch Civil Eng 41(3) 411-431 (1995), 9A890

Optimization of structure and material properties for solids composed of softening material, Int J Solids Struct 33(12) 1799-1813 (May 1996), 9A891

Optimum design of a thin-walled laminated rotating shaft, Machine Dyn Prob 13 19-30 (1995), 9A892

Structral dynamics optimum design with given frequencies and position of mode shape node lines (Chinese), J Comput Struct Mech Appl 12(4) 401-408 (Nov 1995), 9A893

Study on optimization of power transmission pylons by minimization of the square sum of the natural periods, Comput Struct 59(5) 805-812 (Jun 1996), 9A894

Direct-search approach to optimum spiral column design, Eng Struct 18(5) 371-377 (May 1996), 9A911

Effects of sensitivity derivatives on aerodynamic design optimization, Inverse Prob Eng 2(3) 213-225 (1996), 9A1232

Reliability and Optimization of Structural Systems (Chapman and Hall, UK, 1995) 10N24

Sensitivity analysis of structural anti-resonance (Chinese), J Vib Eng 9(1) 9-15 (Mar 1996), 10A203

Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approximation, Eng Optim 25(4) 295-307 (Mar 1996), 10A214

Optimization of stresses in the end-fittings of composite insulators for distribution and transmission lines, J Reinforced Plastics Composites 15(5) 467-478 (May 1996), 10A595

Sensitivity analysis for the optimal design of metal-forming processes, Comput Methods Appl Mech Eng 129(4) 319-348 (Feb 1996), 10A708

Comparative evaluation of different optimization algorithms for structural design applications, Int J Numer Methods Eng 39(10) 1761-1774 (May 1996), 10A876

Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, Mech Solids 30(5) 157-163 (1995), 10A877

Feasible descent cone methods for inequality constrained optimization problems, Int J Numer Methods Eng 39(8) 1341-1356 (Apr 1996), 10A878

Maximizing the fundamental natural frequency of triangular composite plates, J Vib Acoust 118(2) 141-146 (Apr 1996), 10A879

Optimal structural design under creep conditions, Appl Mech Rev 49(9) 433-446 (Sep 1996), 10AR80

Tools for asymmetry rectification in shape design, J Syst Eng 6(2) 98-112 (1996), 10A881

Approximate discrete variable optimization of frame structures with dual methods, Int J Numer Methods Eng 39(9) 1607-1617 (May 1996), 10A921

Optimum design of structures with reference to space structures, Int J Space Struct 10(4) 205-214 (1995), 10A927

Application of topological optimization techniques to structural crashworthiness, Int J Numer Methods Eng 39(8) 1383-1403 (Apr 1996), 10A940

Decomposition algorithm for performance optimization of a launch vehicle, J Spacecraft Rockets 33(2) 214-221 (Apr 1996), 10A942

Optimization of frame topology using boundary cycle and genetic algorithm, JSME Int J Ser A 39(2) 279-285 (Apr 1996), 10A1026

Incorporating manufacturing tolerances in near-optimal design of composite structures, Eng Optim 26(1) 1-23 (Apr 1996), 11A492

Configuration design sensitivity analysis of nonlinear structural systems with elastic material, Mech Struct Machines 24(2) 217-255 (1996), 11A498

Alternative approach to optimization of structures prone to instability, Struct Optim 11(2) 88-94 (Apr 1996), 11A716

Application of neural networks to multiobjective optimization (Japanese), Proc JSCE 537(I-35) 277-289 (Apr 1996), 11A717

Design derivatives for optimization with a critical point constraint, Struct Optim 11(2) 120-127 (Apr 1996), 11A718

Design of joint position for minimum mass 3D frames, Struct Optim 11(2) 95-101 (Apr 1996), 11A719

Design of shear-deformable laminated shells for maximum buckling load under combined loading, Mech Composite Mat Struct 3(2) 119-132 (Jun 1996), 11A720

Difficulties in truss topology optimization with stress and local buckling constraints, Struct Optim 11(2) 134-136 (Apr 1996), 11A721

Improved transient response approximation for general damped systems, AIAA J 34(6) 1261-1269 (Jun 1996), 11A722

Integrated approach to structural shape optimization, Comput Struct 60(2) 279-289 (Jul 1996), 11A723

Limit state reliability optimization accounting for geometric effects, Struct Optim 11(2) 80-87 (Apr 1996), 11A724

Minimum cost design of multispan partially pre-stressed concrete beams using DCOC, Eng Optim 26(1) 35-59 (Apr 1996), 11A725

Minimum weight design of structures under frequency and frequency response constraints, Comput Struct 60(1) 73-77 (Jul 1996), 11A726

Optimal design for minimum weight in a cracked pressure vessel of a turboshaft, Commun Numer Methods Eng 12(5) 271-280 (May 1996), 11A727

Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, Thin-Walled Struct 26(1) 45-60 (1996), 11A728

Optimization of geometrically nonlinear structures based on a multi-point approximation method and adaptivity, Eng Comput 13(2/3/4) 76-97 (1996), 11A729

Optimization of linear segmented circular Mindlin plates for maximum fundamental frequency, Struct Optim 11(2) 128-133 (Apr 1996), 11A730

Optimum design of structures and materials, Meccanica 31(2) 143-161 (Apr 1996), 11A731

Performance comparison of SAM and SQP methods for structural shape optimization, Struct Optim 11(2) 102-112 (Apr 1996), 11A732

Reanalysis of rigid frame structures by the virtual distortion method, Struct Optim 11(2) 71-79 (Apr 1996), 11A733

Reliability based structural analysis and optimization in X window environment, Comput Struct 60(1) 1-10 (Jul 1996), 11A734

Design sensitivity analysis of truss structures with elastoplastic material, Mech Struct Machines 24(2) 189-216 (1996), 11A785

Simultaneous optimization of sailplane design and its flight trajectory, J Aircraft 33(3) 567-571 (Jun 1996), 11A796

Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, J Aircraft 33(3) 608-616 (Jun 1996), 11A797

Object-oriented approach to optimize composite laminated plate stiffness with discrete ply angles, J Composite Mat 30(9) 1020-1041 (1996), 12A559

Analytical and experimental comparison of probabilistic and deterministic optimization, AIAA J 34(7) 1512-1518 (Jul 1996), 12A808

Application of a delimitative and combinatorial algorithm to the discrete optimum design of structures, Struct Optim 11(3-4) 153-158 (Jun 1996), 12A809

Derivative based approximation for predicting the effect of changes in laminate stacking sequence, Struct Optim 11(3-4) 235-243 (Jun 1996), 12A810

Difficulties in truss topology optimization with stress, local buckling and system stability constraints, Struct Optim 11(3-4) 213-217 (Jun 1996), 12A811

Distributed-parameter optimization and topology design for nonlinear thermoelasticity, Comput Methods Appl Mech Eng 132(1-2) 117-134 (May 1996), 12A812

Evolutionary natural frequency optimization of thin plate bonding vibration problems, Struct Optim 11(3-4) 244-251 (Jun 1996), 12A813

Improved approximation technique for the DCOC method of sizing optimization, Comput Struct 60(5) 763-769 (Jul 1996), 12A814

Multicriterion preliminary design of a tetrahedral truss platform, J Spacecraft Rockets 33(3) 410-415 (Jun 1996), 12A815

Norm-relaxed method of feasible directions: Application in structural optimization, Struct Optim 11(3-4) 187-194 (Jun 1996), 12A816

Optimal design of a cylindrical shell loaded by internal pressure, Struct Optim 11(3-4) 263-266 (Jun 1996), 12A817

Optimal design of a dynamic absorber using polymer-laminated steel sheets, Comput Struct 60(6) 981-988 (Jul 1996), 12A818

Optimal locations of point supports in plates for maximum fundamental frequency, Struct Optim 11(3-4) 170-177 (Jun 1996), 12A819

Optimal segmentation of beam and disk structures, Struct Optim 11(3-4) 252-259 (Jun 1996), 12A820

Optimization for minimum sensitivity to uncertain parameters, AIAA J 34(7) 1501-1504 (Jul 1996), 12A821

Optimization of panel forms for improvement in ship structures, Struct Optim 11(3-4) 195-212 (Jun 1996), 12A822

Optimum design of bending-torsion coupled beams with frequency or aeroelastic constraints, Comput Struct 60(5) 715-724 (Jul 1996), 12A823

Optimum shape design and positioning of features using the boundary integral equation method, Int J Numer Methods Eng 39(12) 1985-2003 (Jun 1996), 12A824

Parallel decomposition algorithm in application to structural design, Adv Eng Software 26(1) 1-12 (1996), 12A825

Pseudo-discrete rounding method for structural optimization, Struct Optim 11(3-4) 218-227 (Jun 1996), 12A826

Quasistatic optimal actuator placement with minimum worst case distortion criterion, AIAA J 34(7) 1505-1511 (Jul 1996), 12A827

Reliability-based shape optimization of 2D elastic problems using BEM, Comput Struct 60(5) 743-750 (Jul 1996), 12A828

Repulsion algorithm, a new multistart method for global optimization, Struct Optim 11(3-4) 143-152 (Jun 1996), 12A829

Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, Struct Optim 11(3-4) 228-234 (Jun 1996), 12A830

Stability of FE models for distributed-parameter optimization and topology design, Comput Methods Appl Mech Eng 130(3-4) 203-226 (Apr 1996), 12A831

Structural shape optimization of parts bounded by free-form surfaces, Struct Optim 11(3-4) 159-169 (Jun 1996), 12A832

Two approaches for truss topology optimization: A comparison for practical use, Struct Optim 11(3-4) 137-144 (Jun 1996), 12A833

Optimization of frames with semi-rigid connections, Comput Struct 60(4) 531-539 (Jun 1996), 12A854

282D. Active control, smart structures

Quasi-static control of natural frequencies of composite beams using embedded piezoelectric actuators, Smart Mat Struct 4(2) 106-112 (Jun 1995), 1A138

Active control of multimodal cable vibrations by axial support motion, J Eng Mech 121(9) 964-972 (Sep 1995), 1A141

Active-control and forced-vibration studies on highway bridge, J Struct Eng 121(9) 1306-1312 (Sep 1995), 1A172

Feasibility of active and passive pulse control for flexible structures, J Vib and Control 1(3) 273-289 (Aug 1995), 1A409

Optimal placement of damped struts using simulated annealing, J Spacecraft Rockets 32(4) 653-661 (Aug 1995), 1A876

Control of the natural frequencies of NITINOL-reinforced composite beams, J Sound Vib 185(1) 171-185 (Aug 1995), 1A882

Damage-mitigating control of mechanical structures: Experimental verification of the concept, Smart Mat Struct 4(2) 139-146 (Jun 1995), 1A883

Numerical evaluation for stability and performance of an electronic damping device for structural vibration control, J Sound Vib 184(5) 929-933 (Aug 1995), 1A884

Optimal deflection control of multi-segment traversing beams, Smart Mat Struct 4(2) 75-82 (Jun 1995), 1A885

H_∞ control for seismic-excited build with acceleration feedback, J Eng Mech 121(9) 994-1002 (Sep 1995), 1A1388

Pin-force and Euler-Bernoulli models for analysis of intelligent structures, AIAA J 33(9) 1746-1749 (Sep 1995), 2T735

Power flow in 2D and 3D frame structures, J Sound Vib 185(4) 685-702 (Aug 1995), 2A736

Prediction control of SDOF system, J Eng Mech 121(10) 1049-1055 (Oct 1995), 2A737

Structural-control system optimization with variable actuator masses, AIAA J 33(9) 1709-1714 (Sep 1995), 2A738

Vibration control of tall buildings using mega subconfiguration, J Eng Mech 121(10) 1082-1088 (Oct 1995), 2A739

Strategies for the active control of flexural vibration on a beam, J Sound Vib 186(4) 657-688 (Oct 1995), 3A378

Self-sensing piezolaminated actuator model for shells using a first order shear deformation theory, J Intelligent Mat Syst Struct 6(5) 624-638 (Sep 1995), 3A538

Experimental study of distributed systems with a large number of impact pairs, J Machinery Manuf Reliab 1 84-88 (1995), 3T766

Global, direct algorithm for path-following and active static control of elastic bar structures, Mech Struct Machines 23(4) 549-571 (1995), 3A767

Modeling of piezoresistively-controlled electromechanical smart material, J Intelligent Mat Syst Struct 6(5) 684-690 (Sep 1995), 3A768

Positive real zeros in flexible beams, Shock Vib 2(6) 429-435 (1995), 3A769

Modeling and fuzzy logic control of an active reaction compensating platform system, Shock Vib 2(6) 493-506 (1995), 3A819

Hybrid control of seismic-excited bridge structures, Earthquake Eng Struct Dyn 24(11) 1437-1451 (Nov 1995), 4A374

Active control of wave-type vibration energy for improved structural reliability, Appl Acoust 46(2) 175-195 (1995), 4A797

Active vibration control of a beam subjected to AM or FM disturbances, Noise Control Eng J 43(5) 159-171 (Oct 1995), 4A798

Shape memory ceramic actuation of adaptive structures, AIAA J 33(11) 2165-2172 (Nov 1995), 4A799

Study on smart composite beam: Optimal vibration control of 1st flexural mode by use of piezoelectric ceramics (Japanese), J Soc Mat Sci Japan 44(505) 1255-1260 (Oct 1995), 4A800

Active attenuation of periodic vibration in nonlinear systems using an adaptive harmonic controller, J Vib Acoust 117(3(A)) 355-362 (Jul 1995), 5A696

Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, J Vib Acoust 117(3(A)) 285-293 (Jul 1995), 5A697

Parametric study of active mass dampers for wind excited tall buildings, Eng Struct 18(1) 64-76 (Jan 1996), 5A698

Pseudo-sensor-output-feedback approach for semi-active structural control, J Vib Acoust 117(3(A)) 381-384 (Jul 1995), 5T699

Self-sensing active vibration control using the moving-coil-type actuator, J Vib Acoust 117(4) 411-415 (Oct 1995), 5A700

Vibration control of plates by plate-type dynamic vibration absorbers, J Vib Acoust 117(3(A)) 332-338 (Jul 1995), 5A701

Open-closed loop control of seismic response of structures with active mass driver system (Japanese), Proc JSCE 525(I-33) 201-211 (Oct 1995), 5A1324

Actuator with built-in viscous damping for isolation and structural control, AIAA J 34(1) 129-135 (Jan 1996), 6A322

Analysis of piezoelastic structures with laminated piezoelectric triangle shell elements, AIAA J 34(1) 110-115 (Jan 1996), 6A507

Control of nonlinear vibrations of foundations built in sandy soil, J Vib and Control 2(1) 53-68 (Feb 1996), 6A727

Dynamics and control of nonlinear circular plates with piezoelectric actuators, J Sound Vib 188(2) 189-207 (Nov 1995), 6A728

Simple ATMD control methodology for tall buildings subject to wind loads, J Struct Eng 122(1) 83-91 (Jan 1996), 6A729

Sliding mode control for nonlinear and hysteretic structures, J Eng Mech 121(12) 1330-1339 (Dec 1995), 6A730

Sliding mode control for seismically excited linear structures, J Eng Mech 121(12) 1386-1390 (Dec 1995), 6A731

Strain-hardening behavior of shear panels made of low-yield steel - I: Test, J Struct Eng 121(12) 1742-1749 (Dec 1995), 6A738

Strain-hardening behavior of shear panels made of low-yield steel - II: Model, J Struct Eng 121(12) 1750-1757 (Dec 1995), 6A739

Active truss element and control law for vibration suppression, Smart Mat Struct 4(4) 264-269 (Dec 1995), 7A133

Adaptive passive vibration control, J Sound Vib 189(5) 565-585 (Feb 1996), 7A393

Moving-mass roll control system for fixed-trim re-entry vehicle, J Spacecraft Rockets 33(1) 54-60 (Feb 1996), 7A402

Analytical and experimental investigation of Electrorheological material based adaptive beam structures, J Intelligent Mat Syst Struct 6(6) 846-853 (Nov 1995), 7A910

Control of sliding-isolated buildings using sliding-mode control, J Struct Eng 122(2) 179-186 (Feb 1996), 7A911

Controlled semiactive hydraulic vibration absorber for bridges, J Struct Eng 122(2) 187-192 (Feb 1996), 7A912

Integration and design of piezoceramic elements in intelligent structures, J Intelligent Mat Syst Struct 6(6) 733-743 (Nov 1995), 7A913

Introduction to the dual frequency fixed delayed resonator, J Sound Vib 189(3) 355-367 (Jan 1996), 7A914

Load transmissibility control by virtual substructures, Smart Mat Struct 4(4) 356-362 (Dec 1995), 7A915

Moving away from collocated control, J Sound Vib 190(1) 129-136 (Feb 1996), 7A916

Neural network-based active vibration absorber with state feedback control, J Sound Vib 190(1) 121-128 (Feb 1996), 7A917

Integrated structural tailoring and control using adaptive materials for advanced aircraft wings, J Aircraft 33(1) 203-213 (Feb 1996), 7A1165
Experimental verification of bounded-force control method, Earthquake Eng Struct Dyn 25(2) 179-193 (Feb 1996), 7A1378
Application of smart structures technology to rotorcraft systems, Smart Mat Struct 5(1) 1-98 (Feb 1996), 8T324
Extra-insensitive input shapers for controlling flexible spacecraft, J Guidance Control Dyn 19(2) 385-391 (Apr 1996), 8A326
Experimental validation of an integrated controls-structures design methodology, J Guidance Control Dyn 19(2) 324-333 (Apr 1996), 8A350
Nonlinear control strategies for limiting dynamic response extremes, J Eng Mech 122(3) 218-229 (Mar 1996), 8A730
Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, Struct Eng and Mech 4(2) 111-124 (Mar 1996), 8A731
Design curves for prestressed concrete rectangular beam sections based on BS 8110, Struct Eng and Mech 3(6) 555-567 (Nov 1995), 8A756
Control of seismically excited building structures using variable damper systems, Eng Struct 18(4) 279-287 (Apr 1996), 8A1336
Disturbance rejection control of bridge response to earthquake excitation, Earthquake Eng Struct Dyn 25(3) 291-302 (Mar 1996), 8A1338
Simplifications and comparisons of shape memory alloy constitutive models, J Intelligent Mat Syst Struct 7(1) 108-114 (Jan 1996), 9A7
Fuzzy-logic based vibration suppression control experiments on active structures, J Sound Vib 191(1) 15-28 (Mar 1996), 9A241
Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feed-forward control, JSME Int J Ser C 39(1) 49-57 (Mar 1996), 9A370
Vibrational and acoustic power flow of an actively controlled thin plate, Noise Control Eng J 44(1) 23-33 (Feb 1996), 9A433
Deformation of shape memory alloys due to thermo-induced transformation, J Intelligent Mat Syst Struct 7(1) 97-107 (Jan 1996), 9A895
Design spectra for actively controlled structures based on convex models, Eng Struct 18(5) 341-350 (May 1996), 9A896
Optimal sensor location in active control of flexible structures, AIAA J 34(4) 857-859 (Apr 1996), 9T897
Investigation of using dynamic absorber to reduce random response (Chinese), J Vib Eng 9(1) 80-85 (Mar 1996), 10A423
Control over the motion of two-mass systems, J Machinery Manuf Reliab 6 61-68 (1995), 10A435
Curved piezoactuator model for active vibration control of cylindrical shells, AIAA J 34(5) 1034-1040 (May 1996), 10A882
Experimental implementation of the internal resonance control strategy, J Sound Vib 191(3) 377-396 (Apr 1996), 10A883
Experimentally-validated damage detection theory in smart structures, J Sound Vib 191(5) 859-880 (Apr 1996), 10A884
Optimal discrete-time structural control using direct output feedback, Eng Struct 18(6) 472-480 (Jun 1996), 10A885
Strain measurement in the smart composite, Chinese J Aeronaut 9(1) 55-63 (Feb 1996), 10A913
Finite-element modeling of a smart cantilever plate with comparison with experiments, Smart Mat Struct 5(2) 165-170 (Apr 1996), 11A10
Design of a cascade controller for a flexible spray boom, Mech Syst Signal Processing 10(2) 197-210 (Mar 1996), 11A322
Passivity motivated controller design for flexible structures, J Guidance Control Dyn 19(3) 726-729 (Jun 1996), 11T332
Fiber optic sensors in concrete structures: A review, Smart Mat Struct 5(2) 196-208 (Apr 1996), 11T348
Optical fiber sensor system embedded in a non-circular cross-sectioned member, Smart Mat Struct 5(2) 235-242 (Apr 1996), 11A349
Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, Mech Composite Mat Struct 3(2) 153-179 (Jun 1996), 11A468
Electro-mechanical impedance modeling of active material systems, Smart Mat Struct 5(2) 171-186 (Apr 1996), 11A735
Interfacing for improved performance of laminates with embedded devices, Smart Mat Struct 5(2) 225-229 (Apr 1996), 11A736
Mechanical validation of smart structures, Smart Mat Struct 5(2) 129-139 (Apr 1996), 11T737
Nonlinear opto-electromechanics and photodeformation of optical actuators, Smart Mat Struct 5(2) 230-234 (Apr 1996), 11A738
Optimal sizing and placement of piezo-actuators for active flutter suppression, Smart Mat Struct 5(2) 216-224 (Apr 1996), 11A739
Self-sensing magnetostrictive actuator for vibration suppression, J Guidance Control Dyn 19(3) 713-715 (Jun 1996), 11T740
General macroscopic description of the thermomechanical behavior of shape memory alloys, J Mech Phys Solids 44(6) 953-980 (Jun 1996), 12A4
Active vibration control for flexible structures using a wave-absorbing control method, JSME Int J Ser C 39(2) 188-194 (Jun 1996), 12A137
Active control of flexible structures using a minimum number of components, J Sound Vib 193(3) 713-741 (Jun 1996), 12A393
Dynamics and control of electrostatic structures, J Appl Mech 63(2) 383-391 (Jun 1996), 12A403
Quasistatic optimal actuator placement with minimum worst case distortion criterion, AIAA J 34(7) 1505-1511 (Jul 1996), 12A827
Spatially filtered vibration control of cylindrical shells, Shock Vib 3(4) 269-278 (1996), 12A834
Torsional vibration control of a flexible beam using laminated PVDF actuators, J Sound Vib 193(5) 941-956 (Jun 1996), 12A835
Control of seismic-excited buildings using active variable stiffness systems, Eng Struct 18(8) 589-596 (Aug 1996), 12A1399
Semi-active tuned mass dampers for seismic protection of civil structures, Earthquake Eng Struct Dyn 25(7) 743-749 (Jul 1996), 12A1405

282E. Probabilistic design

Statistical increase and decrease of bearing capacity of structures, Inzynieria Budownictwo 52(12) 392-394 (7-8 1995), 1A886
Interval algebra to deal with pattern loading and structural uncertainties, J Eng Mech 121(11) 1149-1157 (Nov 1995), 3A770
Generalized probabilistic perturbation method for static analysis, Appl Math Mech 16(8) 759-764 (Aug 1995), 4A801
Compressive strength of rectangular plates under biaxial load and lateral pressure, Thin-Walled Struct 24(3) 231-259 (1996), 5A527
Probabilistic response of truss-type space structure with joint and member imperfections, J Spacecraft Rockets 32(5) 870-877 (Oct 1995), 5A751
Comparison of probabilistic and deterministic optimizations using genetic algorithms, Struct Optim 10(3-4) 247-257 (Dec 1995), 6A712
Probabilistic analysis of multi-step failure process of a laminated composite in bending, Composites Sci Tech 55(4) 413-421 (1995), 7A918
Statistical implications of methods of finding characteristic strengths, J Struct Eng 122(2) 202-209 (Feb 1996), 7A919
Response surface method for time-variant reliability analysis, J Struct Eng 122(2) 193-201 (Feb 1996), 7A927
Use of stress-strength model in determination of safety factor for pressure vessel design, J Pressure Vessel Tech 118(1) 27-32 (Feb 1996), 7A994
Behavior of cold-formed SHS beam-columns, J Struct Eng 122(3) 326-336 (Mar 1996), 8A476
Study on quasi-pure probabilistic FEM (Chinese), J Comput Struct Mech Appl 12(4) 379-386 (Nov 1995), 9A71
Probabilistic component mode synthesis of nondeterministic substructures, AIAA J 34(4) 830-834 (Apr 1996), 9A898
Simple method of evaluating the failure probability of a structure considering the skewness of distribution, Nucl Eng Des 160(3) 307-319 (Feb 1996), 9A899
Structural Reliability Methods (Wiley, UK, 1996) 11R25
Weighted residual method by Monte Carlo for random numerical analysis of structures (Chinese), J Comput Struct Mech Appl 13(2) 193-200 (May 1996), 11A741
Analytical and experimental comparison of probabilistic and deterministic optimization, AIAA J 34(7) 1512-1518 (Jul 1996), 12A808
Optimization for minimum sensitivity to uncertain parameters, AIAA J 34(7) 1501-1504 (Jul 1996), 12A821
General tolerancing in design object modeling (Japanese), J Japan Soc Precision Eng 62(5) 706-711 (May 1996), 12A836

282F. Nonlinear theory

Characteristics of an off-center bracing system, J Construct Steel Res 35(3) 361-376 (1995), 5A729
Adaptive parameter incremental method for the analysis of snapping problems, Appl Math Mech 16(9) 851-858 (Sep 1995), 6A732
Failure loads of slender reinforced concrete columns, Proc Inst Civl Eng Struct Build 110(4) 339-350 (Nov 1995), 7A936
Nonlinear effects on the stiffness of bolted joints, J Pressure Vessel Tech 118(1) 48-53 (Feb 1996), 7A1026
Nonlinear effects on the stresses and deformations of bolted joints, J Pressure Vessel Tech 118(1) 54-58 (Feb 1996), 7A1027
Direct integration method for stochastic FE analysis of nonlinear dynamic response, Struct Eng and Mech 3(3) 273-287 (May 1995), 8A13
Large plastic deformation of tubular beams under impact loading, Struct Eng and Mech 3(5) 463-474 (Sep 1995), 8A421
Large deflection of simple variable-arc-length beam subjected to a point load, Struct Eng and Mech 4(1) 49-59 (Jan 1996), 8A475
Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, Struct Eng and Mech 4(1) 25-35 (Jan 1996), 8A719
Automated yield-line analysis of beam-slab systems, Struct Eng and Mech 3(6) 529-539 (Nov 1995), 8A741
Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), J Soc Mat Sci Japan 45(2) 163-168 (Feb 1996), 9A554

282G. Reliability design

Residual strength approach to fatigue design and analysis, J Struct Eng 121(9) 1271-1279 (Sep 1995), 1A887
Empirical stochastic silo load model - I: Correlation theory, J Eng Mech 121(9) 973-980 (Sep 1995), 1A930
Empirical stochastic silo load model - II: Data analysis, J Eng Mech 121(9) 981-986 (Sep 1995), 1A931
Empirical stochastic silo load model - III: Reliability applications, J Eng Mech 121(9) 987-993 (Sep 1995), 1A932
Probabilistic imperfection sensitivity analysis of axially compressed composite cylinders, Eng Struct 17(6) 398-406 (Jul 1995), 2A445
Approximate reliability analysis of wood structural systems, Struct Safety 17(2) 59-78 (Aug 1995), 2A740
Case study on the reliability analysis of deteriorating structures, Struct Build 110(3) 269-277 (Aug 1995), 2A741
Intervening variables and constraint approximations in safety index and failure probability calculations, Struct Optim 10(1) 2-8 (Aug 1995), 2A742
Non-probabilistic measure of reliability of linear systems based on expansion of convex models, Struct Safety 17(2) 91-109 (Aug 1995), 2A743
Plastic-collapse analysis of torsion, J Struct Eng 121(10) 1389-1395 (Oct 1995), 2A744
Reliability analysis of structural components under fatigue environment including random overloads, Eng Fracture Mech 52(3) 423-431 (Oct 1995), 2A745
Reliability-based assessment of inspection requirements, Mat Eval 53(10) 1191-1197 (Oct 1995), 2A746
Towards an appropriate fatigue loading sequence for roof claddings in cyclone prone areas, Eng Struct 17(7) 476-484 (Aug 1995), 2A747
Sizing, shape, and topology design optimization of trusses using genetic algorithms, J Struct Eng 121(10) 1480-1487 (Oct 1995), 2A785
Probabilistic approach to safety - success or failure, Proc Inst Mech Eng J Aerospace Eng 209(G3) 177-183 (1995), 2A797
Analysis of concrete masonry beams, J Struct Eng 121(11) 1598-1602 (Nov 1995), 3A771
Probabilistic model for concrete subjected to variable loading, Arch Civil Eng 41(3) 461-485 (1995), 3A772
Shaping structures for least-weight (Polish), Inzynieria Budownictwo 52(9) 479-483 (1995), 3A773
Reliability analysis for highway bridge deck assessment, Struct Safety 17(3) 135-150 (Oct 1995), 3A802
Linearized mechanical model to evaluate reliability of offshore structures, Struct Safety 17(3) 167-193 (Oct 1995), 3A815
Reliability-based dual level seismic design procedure for building structures, Earthquake Spectra 11(3) 417-429 (Aug 1995), 3A1322
Non-Gaussian noise effects on reliability of multistable systems, J Offshore Mech Arctic Eng 117(3) 166-170 (Aug 1995), 5A105
Nonlinear system identification in offshore structural reliability, J Offshore Mech Arctic Eng 117(3) 171-177 (Aug 1995), 5A702
Reliability of shells via Koiter formulas, Thin-Walled Struct 24(2) 173-187 (1996), 5A703
Structural analysis of random processes with allowance for realization scattering, J Machinery Manuf Reliab 2 35-40 (1995), 5T704
Assessment of American block shear load capacity predictions, J Construct Steel Res 35(3) 323-338 (1995), 5A722
Tensile capacity of anchors with partial or overlapping failure surfaces: Evaluation of existing formulas on an LRFD basis, ACI Struct J 92(6) 698-710 (Dec 1995), 5A724
Contribution to the SFE-based reliability assessment of nonlinear structures under dynamic loading, Probab Eng Mech 10(4) 265-273 (1995), 6A50
Role of expansion of mechanical behavior of concrete, J Struct Eng 121(12) 1795-1805 (Dec 1995), 6A419
Application of level II reliability theory, Proc Inst Mech Eng J Aerospace Eng 209(G4) 291-298 (1995), 6A733
Failure criteria for masonry panels under in-plane loading, J Struct Eng 122(1) 37-46 (Jan 1996), 6A734
Ignorance factors using model expansion, J Eng Mech 122(1) 39-45 (Jan 1996), 6A735
Is no-tension design of safe concrete or rock structures always safe: Fracture analysis, J Struct Eng 122(1) 2-10 (Jan 1996), 6A736
Reliability methods for ship structural design, Marine Struct 9(3-4) 287-518 (1996), 6A737
Strain-hardening behavior of shear panels made of low-yield steel - I: Test, J Struct Eng 121(12) 1742-1749 (Dec 1995), 6A738
Strain-hardening behavior of shear panels made of low-yield steel - II: Model, J Struct Eng 121(12) 1750-1757 (Dec 1995), 6A739
Structural engineering and software: Certainty, uncertainty and probability, Proc Inst Mech Eng J Aerospace Eng 209(G4) 307-311 (1995), 6A740
Structure of automated calculation of the parametric reliability of machines, J Machinery Manuf Reliab 3 25-31 (1995), 6A860
Experimental verification of H_{∞} and sliding mode control for seismically excited buildings, J Struct Eng 122(1) 69-75 (Jan 1996), 6A1281
Crane load modeling, Struct Safety 17(4) 205-224 (Feb 1996), 7A920
Displacement bound estimation for structures with an interval description of uncertain parameters, Commun Numer Methods Eng 12(1) 1-11 (Jan 1996), 7A921
Evaluation of risk-type integrals by system reliability methods, Struct Safety 17(4) 239-254 (Feb 1996), 7A922
First-order third-moment reliability method, Struct Safety 17(4) 255-257 (Feb 1996), 7A923
High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, Eng Struct 18(3) 247-257 (Mar 1996), 7A924
High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, Eng Struct 18(3) 258-267 (Mar 1996), 7A925
New guidelines for fatigue design of HSS connections, J Struct Eng 122(2) 125-132 (Feb 1996), 7A926
Response surface method for time-variant reliability analysis, J Struct Eng 122(2) 193-201 (Feb 1996), 7A927
Uncertainty analysis in quantitative risk assessment, J Pressure Vessel Tech 118(1) 121-124 (Feb 1996), 7A928
Very low cycle failure process of steel angle members, J Struct Eng 122(2) 133-141 (Feb 1996), 7A929
Reliability of composite steel bridge beams designed following AASHTO's LFD with LRFD specifications, Struct Safety 17(4) 225-237 (Feb 1996), 7A965
Service load test of 1:3 scale shell bridge model, J Struct Eng 122(2) 210-216 (Feb 1996), 7A966
Development of a reliability-based fatigue life model for gas turbine engine structures, Eng Fracture Mech 53(5) 807-828 (Mar 1996), 8A598
Reliability analysis of structural components utilizing the strain-life method, Eng Fracture Mech 53(5) 761-774 (Mar 1996), 8A601
Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, Eng Fracture Mech 53(5) 789-805 (Mar 1996), 8A602
Stochastic systems approach to fatigue reliability: An application to Ti-6Al-4V, Eng Fracture Mech 53(5) 687-706 (Mar 1996), 8A605
Three reliability methods for fatigue crack growth, Eng Fracture Mech 53(5) 733-752 (Mar 1996), 8A606
Civil airframe structural integrity: Some probabilistic aspects of risk assessment, Proc Inst Mech Eng J Aerospace Eng 210(G1) 19-25 (1996), 8A732
Detrimental or serendiptious effect of human error on reliability of structures, Comput Methods Appl Mech Eng 129(1-2) 1-7 (Jan 1996), 8A733
Reliability analysis by numerical quadrature and maximum entropy method, Struct Eng and Mech 3(2) 135-144 (Mar 1995), 8A734
Reliability of structural system under hazard action (Chinese), J Dalian Univ Tech 36(1) 6-12 (Jan 1996), 8A735
Structural reliability estimation using Monte Carlo simulation and Pearson's curves, Struct Eng and Mech 3(3) 201-213 (May 1995), 8A736
Unified model for structural reliability analysis based on fuzzy random probabilistic theory (Chinese), J Dalian Univ Tech 35(4) 528-531 (Aug 1995), 8A737
Applications of dynamic measurements to structural reliability updating, Probab Eng Mech 11(2) 97-105 (1996), 9A900
Enumerating significant failure modes of a structural system by using automatic matrix force method (Chinese), J Comput Struct Mech Appl 13(1) 62-66 (Feb 1996), 9T901
Logical analysis and optimum design of engineering system reliability (Chinese), J Comput Struct Mech Appl 12(4) 429-437 (Nov 1995), 9T902

New algorithm for solving the structural reliability index (Chinese), J Comput Struct Mech Appl 12(3) 369-373 (Aug 1995), 9A903
Normalized failure cost as a measure of a structure importance, Nucl Eng Des 160(3) 299-305 (Feb 1996), 9A904
Programming system of static strength reliability analysis for offshore platform structural system (Chinese), J Comput Struct Mech Appl 13(1) 79-83 (Feb 1996), 9A905
Safety check method of steel frame check dam by elastic-plastic reliability analysis (Japanese), Proc JSCE 531(I-34) 65-76 (Jan 1996), 9A906
Reliability of machine parts subjected to random pulsed torsion, J Machinery Manuf Reliab 5 96-98 (1995), 9A1029
Seismic reliability of electrical power transmission systems, Nucl Eng Des 160(3) 427-439 (Feb 1996), 9A1388
Reliability and Optimization of Structural Systems (Chapman and Hall, UK, 1995) 10N24
Improved stratified sampling Monte Carlo method to analyze reliability of structural systems, Chinese J Aeronaut 9(1) 13-20 (Feb 1996), 10A886
Predicting fatigue loads using regression diagnostics, J Am Helicopter Soc 41(2) 58-73 (Apr 1996), 10A887
Safety index calculation using intervening variables for structural reliability analysis, Comput Struct 59(6) 1139-1148 (Jun 1996), 10A888
Structural reliability methods for seismic safety assessment: A review, Eng Struct 18(6) 412-424 (Jun 1996), 10A889
Investigation of space launch vehicle catastrophic failures, J Spacecraft Rockets 33(2) 198-205 (Apr 1996), 10A948
Structural Reliability Methods (Wiley, UK, 1996) 11R25
Limit state reliability optimization accounting for geometric effects, Struct Optim 11(2) 80-87 (Apr 1996), 11A724
Computation of time-dependent structural system reliability without using global limit state functions, Proc Inst Civil Eng Struct Build 116(2) 129-137 (May 1996), 11A742
Validity of safety factor according to stresses, Russian Aeronaut 38(3) 83-85 (1995), 11A743
Probabilistic prediction of extreme stress and fatigue damage for ships in slamming conditions, Marine Struct 9(8) 759-785 (1996), 11A788
Qualification of safety critical structures by FE analytical methods, Proc Inst Mech Eng J Aerospace Eng 210(G2) 203-207 (1996), 11A794
Artificial intelligence β-unzipping method in structural system reliability analysis, Comput Struct 60(4) 619-626 (Jun 1996), 12A837
Bimodal bound of system reliability for random composite structures, AIAA J 34(7) 1494-1500 (Jul 1996), 12A838
Sensitivity analysis and optimal design for fiber reinforced composite disks, Struct Optim 11(3-4) 178-186 (Jun 1996), 12A839

282H. Concrete (reinforced)

Non-Metallic (FRP) Reinforcement for Concrete Structures - Proc of the 2nd Int RILEM Symp (FRPRCS-2), Ghent, Belgium, Aug 23-25, 1995 (E and FN Spon, UK, 1995) 1N23
Effects of a moving aircraft and temperature differential on response of rigid pavements, Comput Struct 57(3) 503-511 (Nov 1995), 1A888
Further considerations for nonlinear FE analysis, J Struct Eng 121(9) 1377-1379 (Sep 1995), 1A889
Nonlinear FE analyses of RC skewed slab bridges, J Struct Eng 121(9) 1338-1345 (Sep 1995), 1A890
Nonlinear FE analysis of reinforced concrete four-pile caps, Comput Struct 57(4) 605-622 (Nov 1995), 1A891
Semi-empirical approach to predict shear strength of ferrocement, Cement & Concrete Composites 17(3) 207-218 (1995), 1A892
Shear strength of reinforced polyester concrete using recycled PET, J Struct Eng 121(9) 1370-1375 (Sep 1995), 1A893
Role of synovial fluid filtration by cartilage in lubrication of synovial joints - III: Squeeze-film lubrication - Axial symmetry under low loading conditions, J Biomech 28(10) 1193-1198 (Oct 1995), 1A1454
Role of synovial fluid filtration by cartilage in lubrication of synovial joints - IV: Squeeze-film lubrication - The central film thickness for normal and inflammatory synovial fluids for axial symmetry under high loading conditions, J Biomech 28(10) 1199-1205 (Oct 1995), 1A1455
Moment curvature analysis of confined concrete flexural members, Asian J Struct Eng 1(2) 103-127 (1995), 2A461
Modeling the diagonal crack failure of reinforced concrete corner joints by a nonlinear FE model, Asian J Struct Eng 1(1) 83-91 (1995), 2A575
Bonding steel reinforced concrete with composites, J Reinforced Plastics Composites 14(9) 949-964 (Sep 1995), 2T748
Deterioration of reinforced concrete in the marine industrial environment of the Arabian Gulf: A case study, Mat Struct 28(181) 392-400 (Sep 1995), 2A749
Effect of concrete strengths on dynamic response of framed shearwalls, Eng Struct 17(6) 425-436 (Jul 1995), 2A750
Effectiveness of laterally arranged reinforcement on the confinement of core concrete, Proc JSCE 500(V-28) 297-308 (Aug 1995), 2A751
Evaluation of the effect of surface coatings through the diffusion process of chloride ion in concrete (Japanese), Proc JSCE 500(V-28) 111-122 (Aug 1995), 2A752
Failure probability of reinforced concrete columns under stochastic loads, Eng Struct 17(6) 419-424 (Jul 1995), 2A753
Hysteresis models for nonlinear behavior of R-C members, Asian J Struct Eng 1(1) 37-70 (1995), 2A754
Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), Proc JSCE 500(V-28) 183-193 (Aug 1995), 2T755
Local couple transfer to a torsionless grillage, Int J Mech Sci 37(10) 1067-1078 (Oct 1995), 2A756
Minimum cost design of RC frames using the DCOC method - Part I: Columns under uniaxial bending actions, Struct Optim 10(1) 16-32 (Aug 1995), 2A757
Minimum cost design of RC frames using the DCOC method - Part II: Columns under biaxial bending actions, Struct Optim 10(1) 33-39 (Aug 1995), 2A758
Numerical techniques for predicting brittle failure of reinforced concrete planar structures, J Struct Eng 121(10) 1507-1513 (Oct 1995), 2A759
Prediction of peeling failure of reinforced concrete beams with externally bonded steel plates, Struct Build 110(3) 257-268 (Aug 1995), 2A760
Quantitive evaluation of shear strength of concrete beams reinforced with FRP rods (Japanese), Proc JSCE 500(V-28) 157-169 (Aug 1995), 2A761
Residual compressive strength of concrete under constant cyclic loads and reliability analysis of reinforced concrete column (Japanese), Proc JSCE 500(V-28) 55-65 (Aug 1995), 2A762
Stress-strain model for reinforced concrete columns confined by lateral reinforcement (Japanese), Proc JSCE 500(V-28) 1-11 (Aug 1995), 2A763
Study of proposed design equation for the shear strength of R-C beams subjected to axial tension (Japanese), Proc JSCE 500(V-28) 225-234 (Aug 1995), 2A764
Study on durability of surface coatings performed on an existing concrete structure (Japanese), Proc JSCE 500(V-28) 99-110 (Aug 1995), 2A765
Tension development length of reinforcing bars embedded in high-strength concrete, Eng Struct 17(7) 512-522 (Aug 1995), 2A766
Verification of 3D constitution model of concrete in line with capacity and ductility of laterally reinforced concrete columns, Proc JSCE 500(V-28) 309-321 (Aug 1995), 2A767
Seismic reliability assessment of existing R-C flat-slab buildings, J Struct Eng 121(10) 1522-1530 (Oct 1995), 2A1247
Constitutive laws of softened concrete in biaxial tension-compression, ACI Struct J 92(5) 562-573 (Oct 1995), 3A4
Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, J Mat in Civil Eng 7(4) 252-257 (Nov 1995), 3A774
Confined columns under eccentric loading, J Struct Eng 121(11) 1547-1556 (Nov 1995), 3A775
Curvature ductility of reinforced concrete beams under low and high strain rates, ACI Struct J 92(5) 526-534 (Oct 1995), 3A776
Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, ACI Struct J 92(5) 610-618 (Oct 1995), 3A777
Modified age adjusted effective modulus method for composite beams with post-connected slab, J Struct Eng 121(11) 1726-1729 (Nov 1995), 3A778
Numerical approach to steel fiber reinforced concrete under torsion, Struct Eng Review 7(2) 83-91 (May 1995), 3A779
Probablistic approach to fatigue life prediction of repaired reinforced concrete slabs, ACI Struct J 92(5) 553-561 (Oct 1995), 3A780
Repaired RC flat-slab-column subassemblages under lateral loading, J Struct Eng 121(11) 1710-1720 (Nov 1995), 3A781
Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, ACI Struct J 92(5) 543-552 (Oct 1995), 3A782
Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, ACI Struct J 92(5) 597-609 (Oct 1995), 3A783
Shear response of dowel reinforced SIFCON, ACI Struct J 92(5) 587-596 (Oct 1995), 3A784
Simple design of concrete walls and structural members under combined tension and moment, ACI Struct J 92(5) 574-579 (Oct 1995), 3A785
Splitting bond failure of columns under seismic action, ACI Struct J 92(5) 535-542 (Oct 1995), 3A786
Studies on concrete slabs with stud shear reinforcement in vicinity of edge and corner columns, ACI Struct J 92(5) 515-525 (Oct 1995), 3A787
Tests on shear capacity of reinforced concrete, J Struct Eng 121(11) 1660-1666 (Nov 1995), 3A788
Use of double U-bar stirrups in seismically loaded reinforced concrete beam-column joints, Struct Eng Review 7(2) 131-143 (May 1995), 3A789
Straight talk about anchorage to concrete - Part I, ACI Struct J 92(5) 580-586 (Oct 1995), 3A797
Nonlinear FE analysis of reinforced concrete two-pile caps, Int J Struct 15(1) 18-34 (Jun 1995), 4A9
Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), Proc JSCE 522(VI-28) 77-86 (Sep 1995), 4A666
Bending behavior of mortar reinforced with steel meshes and polymeric fibers, Cement & Concrete Composites 17(4) 327-338 (1995), 4A802
Consistent treatment of shear design of structural concrete B-regions, Struct Eng Review 7(4) 323-335 (Nov 1995), 4A803
Strengthening of reinforced concrete beams with composite materials: Theoretical study, Composite Struct 33(2) 63-75 (1995), 4A804
Ultimate load behavior of bamboo-reinforced lightweight concrete beams, Cement & Concrete Composites 17(4) 281-288 (1995), 4A805
Nonstationary frequency effect of the ground motion upon the strength levels of the shear type RC structures, Soil Dyn Earthquake Eng 14(6) 453-461 (1995), 4A1332
Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), Proc JSCE 525(I-33) 39-53 (Oct 1995), 5A515
Spall damage to concrete walls from close-in cased and uncased explosions in air, ACI Struct J 92(6) 680-688 (Dec 1995), 5A613
Behavior of reinforced concrete membrane elements in shear, ACI Struct J 92(6) 665-679 (Dec 1995), 5A705
Constitutive modeling of concrete using a new failure criterion, Comput Struct 58(5) 1003-1014 (Mar 1996), 5A706
Effects of epoxy coating on anchorage and development of welded wire fabric, ACI Struct J 92(6) 757-764 (Dec 1995), 5A707
In-plane behavior of grouted concrete masonry under biaxial tension-compression, ACI Struct J 92(6) 653-664 (Dec 1995), 5A708
Influence of web reinforcement on the cyclic response of structural walls, ACI Struct J 92(6) 745-756 (Dec 1995), 5T709
Mechanical behavior of concrete subjected to alkali-aggregate reaction, Comput Struct 58(6) 1093-1097 (Mar 1996), 5A710
Pull-out strength of bars embedded in high performance concrete (French), Mat Struct 28(184) 569-574 (Dec 1995), 5A711
Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, ACI Struct J 92(6) 711-723 (Dec 1995), 5A712
Steel fibers as shear reinforcement in partially prestressed beams, ACI Struct J 92(6) 643-652 (Dec 1995), 5A713
Story stability and minimum bracing in RC framed structures: A general approach, ACI Struct J 92(6) 735-744 (Dec 1995), 5A714
Displacement-based design of RC bridge columns in seismic regions, Earthquake Eng Struct Dyn 24(12) 1623-1643 (Dec 1995), 5A1317
Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, ACI Struct J 92(6) 765-780 (Dec 1995), 5A1329
Analysis of RC torsioned members on the base of softened truss model (Polish), Inzynieria Budownictwo 52(12) 686-689 (1995), 6A741
Compressive model for study of shear in thin-webbed RC and PC beams, J Struct Eng 121(12) 1822-1831 (Dec 1995), 6A742
Cracking behavior of reinforced concrete members with concentrated reinforcement (Polish), Inzynieria Budownictwo 52(11) 583-587 (1995), 6A743
Dimensional variations in reinforced-concrete members, J Struct Eng 121(12) 1865-1867 (Dec 1995), 6A744
Effects of classified fly ash on improving performance of roller compacted concrete pavements (Japanese), Proc JSCE 526(II) 85-95 (Nov 1995), 6A745
Fire resistance of steel columns filled with bar-reinforced concrete, J Struct Eng 122(1) 30-36 (Jan 1996), 6A746
Fracture and fatigue behavior of a high strength limestone concrete as compared to gravel concrete, Heron 40(2) 125-146 (1995), 6A747
Fracture mechanics of concrete: Will applications start to emerge, Heron 40(2) 147-162 (1995), 6A748
Fundamental study on bond behavior of various FRP rods in pretensioned PC members, Proc JSCE 526(II) 121-131 (Nov 1995), 6A749
Numerical analysis of reinforced concrete continuous deep beams, Heron 40(2) 163-178 (1995), 6A750
Proper interpretation of the utilization state of structures (Polish), Inzynieria Budownictwo 52(11) 573-577 (1995), 6T751
Push-out tests on studs in high strength and normal strength concrete, J Construct Steel Res 36(1) 15-29 (1996), 6A752
Simplified model of unilateral damage for RC frames, J Struct Eng 121(12) 1765-1772 (Dec 1995), 6A753
Stochastic analysis of fatigue lives of reinforced concrete subjected to cyclic bending moment (Japanese), Proc JSCE 526(II) 1-10 (Nov 1995), 6A754
Strength of struts and nodes in strut-tie model, J Struct Eng 122(1) 20-29 (Jan 1996), 6A755
Study of layering procedures in FE analysis of RC flexural and torsional elements, J Struct Eng 121(12) 1773-1783 (Dec 1995), 6A756
Behavior of RC bridge decks with flexible girders, J Struct Eng 122(1) 11-19 (Jan 1996), 6A767
Tribological behavior of solid lubricant coatings, J Friction Wear 16(2) 63-67 (1995), 6T828
Concrete penetration by eroding projectiles: Experiments and analysis, J Eng Mech 122(2) 145-152 (Feb 1996), 7A252
Computational plasticity of reinforced and prestressed concrete structures, Comput Mech 17(4) 242-254 (Jan 1996), 7A930
Deflection control of two-way reinforced concrete slabs, J Struct Eng 122(2) 160-168 (Feb 1996), 7A931
Design of nonflexural members with normal and high-strength concretes, ACI Struct J 93(1) 3-10 (Feb 1996), 7A932
Effect of embedment length of tension reinforcement on the behavior of lightweight concrete deep beams, ACI Struct J 93(1) 21-29 (Feb 1996), 7A933
Effect of precast concrete planks on shear connector strength, J Construct Steel Res 36(3) 201-213 (1996), 7A934
Effectiveness factor of concrete in continuous deep beams, J Struct Eng 122(2) 169-178 (Feb 1996), 7A935
Failure loads of slender reinforced concrete columns, Proc Inst Civil Eng Struct Build 110(4) 339-350 (Nov 1995), 7A936
Flexural response of concrete beams reinforced with FRP reinforcing bars, ACI Struct J 93(1) 46-55 (Feb 1996), 7A937
Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, ACI Struct J 93(1) 30-35 (Feb 1996), 7A938
Moisture-induced pressures in concrete airfield pavements, J Mat in Civil Eng 8(1) 41-50 (Feb 1996), 7A939
Practial estimation of two-way slab deflections, J Struct Eng 122(2) 150-159 (Feb 1996), 7A940
Properties of fiber reinforced structural lightweight concrete, ACI Struct J 93(1) 62-78 (Feb 1996), 7A941
Structural effectiveness of large volume patch repairs to concrete structures, Proc Inst Civil Eng Struct Build 110(4) 351-360 (Nov 1995), 7A942
Tensile bond strength of deformed bars of high-strength concrete, ACI Struct J 93(1) 11-20 (Feb 1996), 7A943
Tension stiffening in reinforced concrete membrane elements, ACI Struct J 93(1) 108-115 (Feb 1996), 7A944
Tension stiffening model for planar reinforced concrete members, Comput Struct 59(1) 179-190 (Apr 1996), 7A945
Seismic assessment and retrofit of bridge column footings, ACI Struct J 93(1) 79-94 (Feb 1996), 7A949
Design charts for reinforced concrete circular columns in accordance with Eurocode 2, Proc Inst Civil Eng Struct Build 110(4) 410-416 (Nov 1995), 7A950
General shear design method, ACI Struct J 93(1) 36-45 (Feb 1996), 7A953
Splice strength of high relative rib area reinforcing bars, ACI Struct J 93(1) 95-107 (Feb 1996), 7A958
Transfer of moments between columns and slabs: Proposed code revisions, ACI Struct J 93(1) 56-61 (Feb 1996), 7A959
Design of Concrete Structures - Prentice Hall International Series in Civil Engineering and Engineering Mechanics (Prentice Hall, Upper Saddle River, NJ, 1996) 8R9
Inelastic vector FE analysis of RC shells, Struct Eng and Mech 4(2) 139-148 (Mar 1996), 8A17
Vector algorithm for layered reinforced concrete shell element stiffness matrix, Struct Eng and Mech 3(2) 173-183 (Mar 1995), 8A40
Constitutive models for concrete penetration analysis, J Eng Mech 122(3) 230-238 (Mar 1996), 8A189
Analysis of composite beams with rectangular web openings, J Construct Steel Res 37(1) 47-62 (1996), 8A481
Model formulations for numerical creep calculations for concrete, J Struct Eng 122(3) 284-290 (Mar 1996), 8A596
Alternative strategies for temporary support during structural repair of reinforced-concrete beams, J Struct Eng 122(3) 238-246 (Mar 1996), 8A738

Analysis of bond stress distributions in pullout specimens, J Struct Eng 122(3) 255-261 (Mar 1996), 8A739
Application of the compressive-force path concept in the design of reinforced concrete indeterminate structures: A pilot study, Struct Eng and Mech 3(5) 475-495 (Sep 1995), 8A740
Automated yield-line analysis of beam-slab systems, Struct Eng and Mech 3(6) 529-539 (Nov 1995), 8A741
Characteristics of concrete reinforced with San fibers, J Ferrocement 26(1) 1-10 (Jan 1996), 8A742
Design provisions for stair slabs in the Bangladesh building code, J Struct Eng 122(3) 262-266 (Mar 1996), 8A743
Design recommendations for bond of GFRP rebars to concrete, J Struct Eng 122(3) 247-254 (Mar 1996), 8A744
Direct method of design of rectangular column section, Struct Eng and Mech 4(2) 204-207 (Mar 1996), 8A745
Experimental evaluation of masonry-infilled RC frames, J Struct Eng 122(3) 228-237 (Mar 1996), 8A746
Experimental study of shear behavior of concrete beams with cold rolled deformed steel stirrups (Chinese), J Dalian Univ Tech 35(5) 703-708 (Oct 1995), 8A747
FAOFERRS: A computer program for the analysis of ferrocement in flexure, J Ferrocement 26(1) 21-31 (Jan 1996), 8A748
Finite element modeling of reinforced concrete structures with laboratory verification, Struct Eng and Mech 3(6) 593-609 (Nov 1995), 8A749
Flexural behavior and durability of ferrocement with polymer-modified paste coatings on reinforcements, J Ferrocement 26(1) 33-40 (Jan 1996), 8A750
New reinforcing steel model with bond-slip, Struct Eng and Mech 3(4) 299-312 (Jul 1995), 8A751
Numerical model for externally prestressed beams, Struct Eng and Mech 4(2) 177-190 (Mar 1996), 8A752
Strength and ductility of rectangular concrete columns: A plasticity approach, J Struct Eng 122(3) 267-274 (Mar 1996), 8A753
Toward a unified nomenclature for reinforced-concrete theory, J Struct Eng 122(3) 275-283 (Mar 1996), 8A754
Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), J Comput Struct Mech Appl 12(1) 69-75 (Feb 1995), 9A29
Bond and force transfer of composite material plates bonded to concrete, ACI Struct J 93(2) 208-217 (Apr 1996), 9A591
Punching shear of continuous flat reinforced concrete slabs, ACI Struct J 93(2) 218-228 (Apr 1996), 9A597
Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, Mat Struct 29(186) 97-104 (Mar 1996), 9A769
State of the art report - Part 2: Mechanical micro-cracking of concrete, Mat Struct 29(186) 67-78 (Mar 1996), 9A788
Fracture mechanics-based design method for SFRC tunnel linings, Proc JSCE 532(V-30) 221-233 (Feb 1996), 9A790
Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, Mat Struct 29(186) 87-96 (Mar 1996), 9A795
Analysis of concrete placement load effects using influence surfaces, ACI Struct J 93(2) 180-186 (Apr 1996), 9A907
Computational approach to path-dependent nonlinear RC-soil interaction, Proc JSCE 532(V-30) 197-207 (Feb 1996), 9A908
Corrosion of reinforced concrete due to stress-assisted diffusion, Arch Civil Eng 41(3) 447-460 (1995), 9A909
Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), Proc JSCE 532(V-30) 119-129 (Feb 1996), 9A910
Direct-search approach to optimum spiral column design, Eng Struct 18(5) 371-377 (May 1996), 9A911
Effectiveness of shear reinforcement for normal and high-strength concrete beams, Struct Eng Review 8(1) 65-78 (Feb 1996), 9A912
Embedded bar behavior in concrete under combined axial pullout and transverse displacement, Proc JSCE 532(V-30) 183-195 (Feb 1996), 9A913
Energy dissipation capability of reinforced concrete bridge piers that fail in flexure at bottom (Japanese), Proc JSCE 532(V-30) 5-13 (Feb 1996), 9A914
Evaluation of lifetime risk in reinforced concrete structure (Japanese), Proc JSCE 532(V-30) 15-28 (Feb 1996), 9A915
Fixed angle softened truss model for reinforced concrete, ACI Struct J 93(2) 197-207 (Apr 1996), 9A916
Flexural and shear behavior of bridge pier caps, Struct Eng Review 8(1) 37-47 (Feb 1996), 9A917
Fretting fatigue in post-tensioned concrete beams, ACI Struct J 93(2) 172-179 (Apr 1996), 9A918
Moment transfer by shear in slab-column connections, ACI Struct J 93(2) 187-196 (Apr 1996), 9A919
New model for cracking analysis of tension reinforced concrete members based on the bond-slip relationships, Arch Civil Eng 42(1) 47-64 (1996), 9A920
Performance of strengthened concrete deep beams predamaged in shear, ACI Struct J 93(2) 159-171 (Apr 1996), 9A921
Properties of steel fiber reinforced concrete with steel filings, Arch Civil Eng 41(3) 487-492 (1995), 9A922
Quantative estimation of steel corrosion in mortar due to carbination (Japanese), Proc JSCE 532(V-30) 55-66 (Feb 1996), 9A923
Studies on connecting structure between steel shell and steel reinforced concrete (Japanese), Proc JSCE 532(V-30) 97-108 (Feb 1996), 9A924
Study on practical design method for shear of reinforced concrete slabs loaded near free edge (Japanese), Proc JSCE 532(V-30) 141-149 (Feb 1996), 9A925
Warping stress equation at the transverse joint edge of concrete pavement slab based on FEM analysis (Japanese), Proc JSCE 532(V-30) 89-96 (Feb 1996), 9A926
Wet concrete loading of profiled trough girders, Thin-Walled Struct 25(2) 81-108 (1996), 9A927
Fundamental study on the thermal properties of concrete structural members under external high temperature loading (Japanese), Proc JSCE 532(V-30) 41-53 (Feb 1996), 9A1276
Testing of Concrete in Structures, Third Edition (E&FN Spon, Andover, Hants, UK, 1995) 10N26
Cracking and permeability of concrete under tension, Mat Struct 29(187) 141-151 (Apr 1996), 10A841
Behavior of beam-column connections under axial column tension, J Struct Eng 122(5) 501-511 (May 1996), 10A890
Composite suspended shells on cyclical plan, Int J Space Struct 10(4) 243-248 (1995), 10A891
Development of manufacturing reinforced concrete segment by centrifugal compaction (Japanese), Proc JSCE 534(VI-30) 135-152 (Mar 1996), 10A892
Effects of cement and curing upon carbonation and reinforcement corrosion in concrete, Mat Struct 29(187) 164-173 (Apr 1996), 10A893
Efficiency analysis of prestressing by forced deformations of the RC floor in continuous bridge (Polish), Inzynieria Budownictwo 53(3) 169-173 (1996), 10A894
Experimental verification of the method of deflection analysis of RC members subjected to bending (Polish), Inzynieria Budownictwo 53(4) 230-232 (1996), 10A895
Investigations on the influence of oxygen on corrosion of steel in concrete - Part I, Mat Struct 29(187) 174-184 (Apr 1996), 10A896
Influence of the concrete strength on the behavior of rigid joints in RC frames (Polish), Inzynieria Budownictwo 53(4) 225-230 (1996), 10A924
Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, Struct Eng and Mech 4(3) 257-276 (May 1996), 11A14
Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), Proc JSCE 537(I-35) 155-166 (Apr 1996), 11A642
Size effects on concrete fracture energy: Dimensional transition from order to disorder, Mat Struct 29(189) 259-266 (Jun 1996), 11A664
Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, Mat Struct 29(189) 286-294 (Jun 1996), 11A712
Analysis of reinforced concrete members subject to shear and axial compression, ACI Struct J 93(3) 306-315 (Jun 1996), 11A744
Basic test on the dynamic strength of R/C square columns under biaxial bending, J Soc Mat Sci Japan 45(4) 423-429 (Apr 1996), 11A745
Bond and splitting in reinforced concrete: Test results on bar pull-out, Mat Struct 29(189) 267-276 (Jun 1996), 11A746
Bond strength of noncontact tension lap splices, ACI Struct J 93(3) 316-326 (Jun 1996), 11A747
Comparison between cube strengths and *in situ* concrete strength development, Proc Inst Civl Eng Struct Build 116(2) 138-153 (May 1996), 11A748
Damage evolution in different types of concrete by means of splitting tests, Heron 40(4) 285-311 (1995), 11A749
Development length criteria for conventional and high relative rib area reinforcing bars, ACI Struct J 93(3) 347-359 (Jun 1996), 11A750
Effect of thick concrete cover on the maximum flexural crack width under service load, ACI Struct J 93(3) 257-265 (Jun 1996), 11A751
Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), Proc JSCE 537(I-35) 97-106 (Apr 1996), 11A752
Flexural behavior of reinforced concrete masonry walls under out-of-plane monotonic loads, ACI Struct J 93(3) 327-335 (Jun 1996), 11A753
Grouted precast concrete column connections under reversed cyclic bending and compression, ACI Struct J 93(3) 247-256 (Jun 1996), 11A754
Intrinsic mechanisms in reinforced concrete beam-column connection behavior, ACI Struct J 93(3) 336-346 (Jun 1996), 11A755
Investigations on the influence of oxygen on corrosion of steel in concrete - Part 2, Mat Struct 29(188) 226-232 (May 1996), 11A756
Large reinforced concrete cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 163-173 (May 1996), 11A757
Large steel-concrete composite cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 174-185 (May 1996), 11A758
Mechanical properties of reactive powder concrete, Mat Struct 29(188) 233-240 (May 1996), 11A759
Microstructure and properties of styrene acrylate polymer cement concrete, Heron 40(4) 263-284 (1995), 11A760
Reinforced concrete T-beams with large web openings in positive and negative moment regions, ACI Struct J 93(3) 277-289 (Jun 1996), 11A761
Simplified estimation procedure of degree of imperfection for composite girder with partial interaction (Japanese), Proc JSCE 537(I-35) 89-96 (Apr 1996), 11A762
Stress transfer mechanism of socket base connections with precast concrete columns, ACI Struct J 93(3) 266-276 (Jun 1996), 11A763
Stringer panel model for structural concrete design, ACI Struct J 93(3) 295-305 (Jun 1996), 11A764
Two approaches for the analysis of masonry structures: Micro and macro-modeling, Heron 40(4) 313-340 (1995), 11A765
Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), Proc JSCE 537(I-35) 145-153 (Apr 1996), 11A776
Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, Earthquake Spectra 12(2) 185-198 (May 1996), 11A1404
Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, Earthquake Spectra 12(2) 217-244 (May 1996), 11A1409
Evaluation of UBC-04 provisions for seismic design of RC structural walls, Earthquake Spectra 12(2) 327-348 (May 1996), 11A1411
Advances in Concrete Technology - Proc of 2nd Canada Center for Mineral and Energy Technology-ACI Int Symp, Las Vegas NV, 1995 (Am Concrete Inst, MI, 1995) 12N19
Concretes with Dispersed Reinforcement - Russian Translations Series, 113 (Balkema, Rotterdam, Netherlands, 1995) 12N21
Recent Developments on Lateral Force Transfer in Buildings - Proc of Thomas Paulay Symp (Am Concrete Inst, MI, 1995) 12N31
Structural Behavior of Concrete with Coarse Lightweight Aggregates - CUR Report 173 (Balkema, Rotterdam, Netherlands, 1995) 12N35
RC Frames Under Earthquake Loading (Telford, UK, 1996) 12N47
Experimental study on stud shear connectors subjected to cyclic loading, J Construct Steel Res 38(1) 1-21 (1996), 12A840
Fiber beam-column model for nonlinear analysis of R-C frames - Part I: Formulation, Earthquake Eng Struct Dyn 25(7) 711-725 (Jul 1996), 12A841
Fiber beam-column model for nonlinear analysis of R-C frames - Part II: Applications, Earthquake Eng Struct Dyn 25(7) 727-742 (Jul 1996), 12A842
Material modeling for transient dynamic analysis of reinforced concrete structures, Int J Numer Methods Eng 39(12) 2111-2129 (Jun 1996), 12A843
Optimization problem solution in reliability analysis of reinforced concrete structures, Comput Struct 60(3) 351-355 (Aug 1996), 12A844
Beam global model for the seismic analysis of RC frames, Earthquake Eng Struct Dyn 25(7) 671-688 (Jul 1996), 12A1397

282I. Concrete (prestressed)

Prestressed high-strength concrete beams under torsion, J Struct Eng 121(9) 1280-1286 (Sep 1995), 1A894
Structural lightweight concrete: Recent research, Heron 40(1) 5-30 (1995), 1A895
Proposal on the formula to evaluate the force due to creep and shrinkage of the prestressed concrete structure (Japanese), Proc JSCE 530(V-28) 249-258 (Aug 1995), 2T768
Range and null space decomposition applied to analysis of slender concrete columns, Comput Struct 57(6) 991-997 (Dec 1995), 2A769
Shear strength of prestressed concrete beams with FRP tendon (Japanese), Proc JSCE 530(V-28) 213-224 (Aug 1995), 2A770
Constitutive laws of softened concrete in biaxial tension-compression, ACI Struct J 92(5) 562-573 (Oct 1995), 3A4
Shear capacity of notched prestressed hollow core slabs with circular voids, Struct Eng Review 7(2) 63-74 (May 1995), 3A790
Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, Finite Elements Anal Des 20(4) 253-271 (Sep 1995), 4A41
Development of self-compacting high performance concrete (Japanese), Proc JSCE 522(VI-28) 23-26 (Sep 1995), 4T806
Effect of end notch on shear capacity of simply supported prestressed hollow core slabs: Numerical experiments, Struct Eng Review 7(4) 277-288 (Nov 1995), 4A807
Steel fibers as shear reinforcement in partially prestressed beams, ACI Struct J 92(6) 643-652 (Dec 1995), 5A713
Ultimate stress for unbonded post-tensioning tendons in partially prestressed beams, ACI Struct J 92(6) 689-697 (Dec 1995), 5A715
Compressive model for study of shear in thin-webbed RC and PC beams, J Struct Eng 121(12) 1822-1831 (Dec 1995), 6A742
Fatigue-strength of prestressed composite steel-concrete beams, J Struct Eng 121(12) 1850-1856 (Dec 1995), 6A757
Relative efficiency of external prestressing, J Struct Eng 121(12) 1832-1841 (Dec 1995), 6A758
Application of DCOC to optimum prestressed concrete beam design, Eng Optim 25(3) 179-200 (Dec 1995), 7A946
Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), J Soc Mat Sci Japan 44(507) 1409-1416 (Dec 1995), 7A947
General shear design method, ACI Struct J 93(1) 36-45 (Feb 1996), 7A953
Design of Concrete Structures - Prentice Hall International Series in Civil Engineering and Engineering Mechanics (Prentice Hall, Upper Saddle River, NJ, 1996) 8R9
Numerical model for externally prestressed beams, Struct Eng and Mech 4(2) 177-190 (Mar 1996), 8A752
Cyclic load tests on prestressed concrete model frames, Eng Struct 18(4) 311-320 (Apr 1996), 8A755
Design curves for prestressed concrete rectangular beam sections based on BS 8110, Struct Eng and Mech 3(6) 555-567 (Nov 1995), 8A756
Thin-walled prestressed concrete members under combined loading, J Struct Eng 122(3) 291-297 (Mar 1996), 8A757
Calculation of normal section strength of unbonded partially prestressed concrete beams with high strength concrete (Chinese), J Dalian Univ Tech 36(2) 224-229 (Mar 1996), 9A928
Interfacial Transition Zone in Concrete - RILEM Reports Series 11 (E&FN Spon, Andover, Hants, UK, 1996) 10N21
Testing of Concrete in Structures, Third Edition (E&FN Spon, Andover, Hants, UK, 1995) 10N26
Effect of prestress losses on the seismic response of prestressed concrete frames, Comput Struct 58(6) 1013-1020 (Jun 1996), 10A897
Computer aided design of prestressed concrete highway bridges, Comput Struct 60(6) 957-969 (Jul 1996), 12A845
Plasticity computations for the design of the ductility of circular concrete columns, Comput Struct 60(5) 825-835 (Jul 1996), 12A846

282J. Sandwich structure

Ultimate strength analysis of stub girders, J Struct Eng 121(9) 1259-1264 (Sep 1995), 1A896
Use of thickness-shear mode in adaptive sandwich structures, Smart Mat Struct 4(3) 202-206 (Sep 1995), 2A771
End effects for antiplane shear deformations of sandwich structures, J Elast 40(2) 123-164 (Aug 1995), 4A808
Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), Proc JSCE 525(I-33) 39-53 (Oct 1995), 5A515
Behavior of composite walling under construction and service loading, J Construct Steel Res 35(3) 257-273 (1995), 5A716
Design of glued laminated timber columns, J Struct Eng 121(12) 1789-1794 (Dec 1995), 6A759
Laminating effects in glued-laminated timber beams, J Struct Eng 121(12) 1857-1863 (Dec 1995), 6A760
Low velocity impact damage in composite sandwich beams, Composite Struct 34(1) 21-27 (1996), 7A835
Bending of curved sandwich beams, Composite Struct 33(4) 211-225 (1995), 7A948
Composite sandwich-structure optimization with application to satellite components, AIAA J 34(3) 614-621 (Mar 1996), 8A708
Structural Design of Polymer Composites - Eurocomp Design Code and Handbook (E&FN Spon, Andover, Hants, UK, 1995) 10N25

282K. Foam and honeycomb structures

Stress-strain state of a three-layered cantilever panel with honeycomb filler, Mech Solids **30**(1) 149-156 (1995), 3A502
Combined equation for sizing timber columns, J Struct Eng **121**(11) 1730-1733 (Nov 1995), 3A791
New formula for influence of spiral grain on bending stiffness of wooden beams, J Struct Eng **121**(11) 1541-1546 (Nov 1995), 3A792

282L. Dynamic and random loading

Wood-floor vibration design criteria, J Struct Eng **121**(9) 1294-1297 (Sep 1995), 1A897
Nonlinear random response of antisymmetric angle-ply laminates under thermal-acoustic loading, J Sound Vib **186**(2) 291-309 (Sep 1995), 2A120
Time series models for vehicle random vibration simulation tests, Int J Vehicle Des **16**(6) 581-593 (1995), 2A133
Nonstationary random response of a vehicle with a varying structure, Int J Vehicle Des **16**(6) 531-541 (1995), 2A284
Error assessment for wind histories generated by autoregressive method, Struct Safety **17**(2) 79-90 (Aug 1995), 2A772
Natural frequencies of structures with uncertain but nonrandom parameters, J Optim Theory Appl **86**(3) 669-683 (Sep 1995), 2A773
Stochastic vibration of an elastic beam due to random moving loads and deterministic axial forces, Eng Struct **17**(7) 530-535 (Aug 1995), 2A774
Curvature ductility of reinforced concrete beams under low and high strain rates, ACI Struct J **92**(5) 526-534 (Oct 1995), 3A776
Probabilistic approach to fatigue life prediction of repaired reinforced concrete slabs, ACI Struct J **92**(5) 553-561 (Oct 1995), 3A780
Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, ACI Struct J **92**(5) 543-552 (Oct 1995), 3A782
Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, ACI Struct J **92**(5) 597-609 (Oct 1995), 3A783
Splitting bond failure of columns under seismic action, ACI Struct J **92**(5) 535-542 (Oct 1995), 3A786
Dominant failure modes for structures with stochastic load processes, J Eng Mech **121**(11) 1252-1260 (Nov 1995), 3A793
Stochastic response cumulants of MDOF linear systems, J Eng Mech **121**(11) 1181-1192 (Nov 1995), 3A794
Wind engineering: Perspective development in systematic approach (Polish), Inzynieria Budownictwo **52**(9) 451-454 (1995), 3A795
Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), Stahlbau **9** 265-270 (Sep 1995), 3A803
Non-Gaussian approach for stochastic analysis of offshore structures, J Eng Mech **121**(11) 1173-1180 (Nov 1995), 3A816
Parametric random excitation of nonlinear coupled oscillators, Nonlinear Dyn **8**(3) 385-413 (Oct 1995), 4A123
Application of quasi-conservative averaging to a nonlinear system under nonwhite excitation, Int J Non-Linear Mech **30**(5) 677-685 (Sep 1995), 5A104
Spectral density of a nonlinear single dof system's response to a white-noise random excitation: A unique case of an exact solution, Int J Non-Linear Mech **30**(5) 673-676 (Sep 1995), 5A108
Structural analysis of random processes with allowance for realization scattering, J Machinery Manuf Reliab **2** 35-40 (1995), 5T704
Characteristics of an off-center bracing system, J Construct Steel Res **35**(3) 361-376 (1995), 5A729
Approximate analysis of response variability of uncertain linear systems, Probab Eng Mech **10**(4) 251-264 (1995), 6A115
Spectral method for estimation of nonlinear system parameters from measured response, Probab Eng Mech **10**(4) 199-207 (1995), 6A117
Response moments of an elastic beam subjected to Poissonian moving loads, J Sound Vib **188**(4) 479-495 (Dec 1995), 6A125
Stochastic fluid-structure interaction of large circular floating islands during wind waves and seaquakes, Probab Eng Mech **10**(4) 209-224 (1995), 6A218
Combined integral and FE analysis of broad-band random vibration in structural members, Probab Eng Mech **10**(4) 241-250 (1995), 6A761
Parametric random vibrations under non-Gaussian delta-correlated processes, J Eng Mech **121**(12) 1366-1371 (Dec 1995), 6A762
Stochastic averaging versus physical consistency, J Sound Vib **189**(2) 289-297 (Jan 1996), 7A132
Seismic assessment and retrofit of bridge column footings, ACI Struct J **93**(1) 79-94 (Feb 1996), 7A949
Direct integration method for stochastic FE analysis of nonlinear dynamic response, Struct Eng and Mech **3**(3) 273-287 (May 1995), 8A13
Analysis of nonstationary signals using time-frequency methods, J Sound Vib **190**(3) 419-447 (Feb 1996), 8A68
Stochastic dynamics of geometrically nonlinear structures with random properties subject to stationary random excitation, J Sound Vib **190**(5) 821-841 (Mar 1996), 8A99
Study of the kinetic energy impulse response as an indicator of the strength of coupling between SEA subsystems, J Sound Vib **190**(3) 363-386 (Feb 1996), 8A100
Dynamic response of elasto-plastic planar arches, Struct Eng and Mech **4**(1) 9-23 (Jan 1996), 8A419
Large plastic deformation of tubular beams under impact loading, Struct Eng and Mech **3**(5) 463-474 (Sep 1995), 8A421
Dynamic characteristics of structures with multiple tuned mass dampers, Struct Eng and Mech **3**(5) 497-509 (Sep 1995), 8A758
High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, Struct Eng and Mech **3**(3) 215-228 (May 1995), 8A759
High precision direct integration scheme for analyzing structural nonstationary random responses (Chinese), J Dalian Univ Tech **35**(5) 600-605 (Oct 1995), 8A760
Theory of response analysis of fuzzy stochastic dynamical systems with a single dof, Earthquake Eng Struct Dyn **25**(3) 235-251 (Mar 1996), 8A761
Yield mechanisms of stepped cantilevers subjected to a dynamically applied constant tip force, Struct Eng and Mech **3**(5) 445-462 (Sep 1995), 8A762
Geotechnical Earthquake Engineering (Prentice-Hall, Englewood Cliffs NJ, 1995) 9R10
Pseudolinear vibroimpact systems: Non-white random excitation, Nonlinear Dyn **9**(4) 327-332 (Apr 1996), 9A162
Explicit closed-form solution for linear systems subjected to nonstationary random excitation, Probab Eng Mech **11**(1) 37-50 (1996), 9A929
Quasisteady models of wind load on slender structures - Part III: Applications of quasisteady theory in aerodynamics of slender structures, Arch Civil Eng **41**(3) 343-376 (1995), 9A930
Spectral response of asymmetrical random oscillators, Probab Eng Mech **11**(1) 51-59 (1996), 9A931
Stochastic cumulant analysis of MDOF systems with polynomial-type nonlinearities, Probab Eng Mech **11**(1) 1-13 (1996), 9A932
Response statistics of ocean structures to nonlinear hydrodynamic loading - Part II: Non-Gaussian ocean waves, J Sound Vib **191**(1) 107-128 (Mar 1996), 9A956
Detection of mutual position of a point and a convex polygon in E^n, Machine Graphics & Vision **4**(3-4) 151-160 (1995), 10A67
Long-term structural dynamics of mechanical systems with local nonlinearities, J Vib Acoust **118**(2) 147-153 (Apr 1996), 10A121
Modeling of stochastic dynamic systems using Hamilton's law of varying action, J Sound Vib **192**(2) 399-412 (May 1996), 10A130
Dynamic response of an axially loaded bending-torsion coupled beam, J Aircraft **33**(3) 601-607 (Jun 1996), 11A105
Improved transient response approximation for general damped systems, AIAA J **34**(6) 1261-1269 (Jun 1996), 11A722
Bounding the transient response of structures to uncertain disturbances, AIAA J **34**(6) 1245-1249 (Jun 1996), 11A766
Elastic analysis of buried structures subject to 3D surface loading, Int J Numer Anal Methods Geomech **20**(5) 331-349 (May 1996), 11A767
Response of an SDOF system to periodic external and parametric excitations with random phase modulations, J Sound Vib **192**(3) 621-627 (May 1996), 11A768
Dynamics: An Introduction for Civil and Structural Engineers - ICE Design and Practice Guide (Telford, UK, 1996) 12N23
Matrix methods for estimating the coherence functions from estimates of the cross-spectral density matrix, Shock Vib **3**(4) 237-246 (1996), 12A135
Influence of the quadratic term in the alongwind stochastic response of SDOF structures, Eng Struct **18**(9) 685-695 (Sep 1996), 12A847
Equivalent linearization of generally pinching hysteretic, degrading systems, Earthquake Eng Struct Dyn **25**(6) 611-629 (Jun 1996), 12A1401

282M. Thermal loading

Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), Proc JSCE **530**(V-28) 235-247 (Aug 1995), 2A775
Aerospace Thermal Structures and Materials for a New Era (AIAA, MD) 3N21
Designing reinforced concrete short-tied columns using the optimization technique, ACI Struct J **92**(5) 619-626 (Oct 1995), 3A796
Aerothermodynamic measurement and prediction for modified orbiter at Mach 6 and 10, J Spacecraft Rockets **32**(5) 737-748 (Oct 1995), 5A717
Behavior of steel frames subject to fire, J Construct Steel Res **35**(3) 291-322 (1995), 5A718
Dissociative cooling: Effect on stagnation heat transfer of gas mixture injection, J Spacecraft Rockets **32**(5) 777-782 (Oct 1995), 5A719
Numerical simulation of a full scale fire test on a loaded steel framework, J Construct Steel Res **35**(3) 377-408 (1995), 5A720
Wake flow about the Mars Pathfinder entry vehicle, J Spacecraft Rockets **32**(5) 771-776 (Oct 1995), 5A721
Analysis of close-packed brush-fiber interfaces for spacecraft thermal management, J Spacecraft Rockets **32**(5) 845-849 (Oct 1995), 5A738
On-orbit temperature distribution of a submillimeter-telescope primary-reflector panel, J Spacecraft Rockets **32**(5) 885-889 (Oct 1995), 5A750
Three-dimensional FE thermoelastic analysis of the dynamics and strength of engineering structures, J Machinery Manuf Reliab **4** 33-40 (1995), 7T1290
Thermal stresses of double-layer composite bar (Chinese), J Comput Struct Mech Appl **12**(4) 462-468 (Nov 1995), 9A933
Singularity of the temperature gradient near a sharp cut in a compound body, Mech Solids **30**(6) 62-64 (1995), 10A898
Treatment of strain reversal in structural members during the cooling phase of a fire, J Construct Steel Res **37**(2) 115-135 (1996), 10A899
Simple model for the fire resistance of axially loaded members: Comparison with experimental results, J Construct Steel Res **37**(3) 175-204 (1996), 11A769

282P. Design codes

Analysis of frames with amplified sway for combined actions, Inzynieria Budownictwo **52**(12) 412-416 (7-8 1995), 1A898
Engineered wood construction: Structural properties for LRFD, J Struct Eng **121**(9) 1346-1351 (Sep 1995), 1A899
Proposal of fatigue durability checking acc to the novelized design standard of steel bridges PN-S-10052, Inzynieria Budownictwo **52**(12) 425-427 (7-8 1995), 1A900
Curvature ductility of reinforced concrete beams under low and high strain rates, ACI Struct J **92**(5) 526-534 (Oct 1995), 3A776
Probabilistic approach to fatigue life prediction of repaired reinforced concrete slabs, ACI Struct J **92**(5) 553-561 (Oct 1995), 3A780
Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, ACI Struct J **92**(5) 543-552 (Oct 1995), 3A782
Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, ACI Struct J **92**(5) 597-609 (Oct 1995), 3A783
Simple design of concrete walls and structural members under combined tension and moment, ACI Struct J **92**(5) 574-579 (Oct 1995), 3A785
Splitting bond failure of columns under seismic action, ACI Struct J **92**(5) 535-542 (Oct 1995), 3A786
Designing reinforced concrete short-tied columns using the optimization technique, ACI Struct J **92**(5) 619-626 (Oct 1995), 3A796
Straight talk about anchorage to concrete - Part I, ACI Struct J **92**(5) 580-586 (Oct 1995), 3A797
Effect of end notch on shear capacity of simply supported prestressed hollow core slabs: Numerical experiments, Struct Eng Review **7**(4) 277-288 (Nov 1995), 4A807
Local deck effects in stress-laminated T-system timber bridges, Struct Eng Review **7**(4) 267-276 (Nov 1995), 4A819
Elastic stability of partially-restrained plates under compression and in-plane bending, J Construct Steel Res **35**(3) 339-360 (1995), 5A529
Torsional buckling of outstands in longitudinally stiffened panels, Thin-Walled Struct **24**(3) 211-229 (1996), 5A535
Effects of epoxy coating on anchorage and development of welded wire fabric, ACI Struct J **92**(6) 757-764 (Dec 1995), 5A707
Story stability and minimum bracing in RC framed structures: A general approach, ACI Struct J **92**(6) 735-744 (Dec 1995), 5A714
Ultimate stress for unbonded post-tensioning tendons in partially prestressed beams, ACI Struct J **92**(6) 689-697 (Dec 1995), 5A715
Behavior of steel frames subject to fire, J Construct Steel Res **35**(3) 291-322 (1995), 5A718
Numerical simulation of a full scale fire test on a loaded steel framework, J Construct Steel Res **35**(3) 377-408 (1995), 5A720
Assessment of American block shear load capacity predictions, J Construct Steel Res **35**(3) 323-338 (1995), 5A722
Straight talk about anchorage to concrete - Part II, ACI Struct J **92**(6) 724-734 (Dec 1995), 5A723
Tensile capacity of anchors with partial or overlapping failure surfaces: Evaluation of existing formulas on an LRFD basis, ACI Struct J **92**(6) 698-710 (Dec 1995), 5A724
Softening behavior of continuous thin-walled steel beams: Two numerical methods, J Construct Steel Res **36**(1) 1-13 (1996), 6A467
Ultimate strength of uniformly compression edge-stiffened thin-walled sections, J Construct Steel Res **36**(1) 31-51 (1996), 6A505
Push-out tests on studs in high strength and normal strength concrete, J Construct Steel Res **36**(1) 15-29 (1996), 6A752
Practical factors of safety and design models for steel structures against a background of Eurocode 3 (Polish), Inzynieria Budownictwo **52**(11) 577-582 (1995), 6A763
Steel column capacity standard formulas in multistory frames analysis (Polish), Inzynieria Budownictwo **52**(11) 588-593 (1995), 6A764
Multicriteria optimal design of stiffened plates - Part I: Choice of the formula for the buckling load, Thin-Walled Struct **24**(4) 353-369 (1996), 7A634
Collapse strength of rectangular plates under transverse compression, J Construct Steel Res **36**(3) 215-234 (1996), 7A658
Design of nonflexural members with normal and high-strength concretes, ACI Struct J **93**(1) 3-10 (Feb 1996), 7A932
Effect of embedment length of tension reinforcement on the behavior of lightweight concrete deep beams, ACI Struct J **93**(1) 21-29 (Feb 1996), 7A933
Flexural response of concrete beams reinforced with FRP reinforcing bars, ACI Struct J **93**(1) 46-55 (Feb 1996), 7A937
Tensile bond strength of deformed bars of high-strength concrete, ACI Struct J **93**(1) 11-20 (Feb 1996), 7A943
Design charts for reinforced concrete circular columns in accordance with Eurocode 2, Proc Inst Civil Eng Struct Build **110**(4) 410-416 (Nov 1995), 7A950
Designing T-beams for less ductility than required by ACI, ACI Struct J **93**(1) 116-127 (Feb 1996), 7A951
Flange curling in profiled steel decks, Thin-Walled Struct **25**(1) 1-29 (1996), 7A952
General shear design method, ACI Struct J **93**(1) 36-45 (Feb 1996), 7A953
Lateral-torsional buckling of unrestrained steel beam in fire, J Construct Steel Res **36**(2) 101-119 (1996), 7A954
Mathematical modeling of column base plate connections, J Construct Steel Res **36**(2) 79-100 (1996), 7A955
Optimum proportions of built-up wide-flange sections, J Construct Steel Res **36**(3) 151-180 (1996), 7A956
Prototype test on x-bracing panels using cold-formed lipped angles, Thin-Walled Struct **25**(1) 31-46 (1996), 7A957
Splice strength of high relative rib area reinforcing bars, ACI Struct J **93**(1) 95-107 (Feb 1996), 7A958
Transfer of moments between columns and slabs: Proposed code revisions, ACI Struct J **93**(1) 56-61 (Feb 1996), 7A959
Verifying the performance of standard ductile connections for semi-continuous steel frames, Proc Inst Civil Eng Struct Build **110**(4) 441-457 (Nov 1995), 7A960
Analysis of geometric fatigue stresses in slender web plates, J Construct Steel Res **37**(1) 33-45 (1996), 8A688
Direct method of design of rectangular column section, Struct Eng and Mech **4**(2) 204-207 (Mar 1996), 8A745
Strength of welded T-DT joints in rectangular and circular hollow section under variable axial loads, J Construct Steel Res **37**(1) 1-31 (1996), 8A765
Design model for intermediate web stiffeners, Proc Inst Civil Eng Struct Build **116**(1) 54-68 (Feb 1996), 9A600
Moment transfer by shear in slab-column connections, ACI Struct J **93**(2) 187-196 (Apr 1996), 9A919
Performance of strengthened concrete deep beams predamaged in shear, ACI Struct J **93**(2) 159-171 (Apr 1996), 9A921
Analysis and design of large diagonal bracing connections, Struct Eng Review **8**(1) 1-27 (Feb 1996), 9A934
Behavior of low-ductility steels in cold-formed steel connections, Thin-Walled Struct **25**(2) 135-151 (1996), 9A935
Design strength of slender concrete-filled rectangular steel tubes, ACI Struct J **93**(2) 229-235 (Apr 1996), 9A936
Evaluation of serviceability limit state seismic torsional provisions of Eurocode 8, Struct Eng Review **8**(1) 49-63 (Feb 1996), 9A937
JSCE standard "Qualities of water for concrete" (Japanese), Proc JSCE **532**(V-30) 1-3 (Feb 1996), 9T938
Effective stiffness of slender steel sections for deflection calculations, Thin-Walled Struct **25**(3) 171-183 (1996), 10A630
Pull-out of axisymmetric headed anchors, Mat Struct **29**(187) 152-157 (Apr 1996), 10A768
Accuracy of some codes of practice in predicting the load capacity of cold-formed columns, J Construct Steel Res **37**(2) 137-172 (1996), 10A900

Comparison of standard moving loads of bridges (Polish), Inzynieria Budownictwo 53(3) 195-199 (1996), 10A901
Lateral stabilization by steel sheeting of structural members, Thin-Walled Struct 25(3) 207-217 (1996), 10A902
PN and ISO standards of modular coordination, tolerances, dimensioning, and measurement procedures in buildings (Polish), Inzynieria Budownictwo 53(4) 253-257 (1996), 10T903
Proportioning of I sections on account of their stability (Polish), Inzynieria Budownictwo 53(4) 243-246 (1996), 10A904
Ultimate strength of steel outstands in compression, J Struct Eng 122(5) 573-578 (May 1996), 10A905
Analysis of reinforced concrete members subject to shear and axial compression, ACI Struct J 93(3) 306-315 (Jun 1996), 11A744
Bond strength of noncontact tension lap splices, ACI Struct J 93(3) 316-326 (Jun 1996), 11A747
Development length criteria for conventional and high relative rib area reinforcing bars, ACI Struct J 93(3) 347-359 (Jun 1996), 11A750
Effect of thick concrete cover on the maximum flexural crack width under service load, ACI Struct J 93(3) 257-265 (Jun 1996), 11A751
Stringer panel model for structural concrete design, ACI Struct J 93(3) 295-305 (Jun 1996), 11A764
Simple model for the fire resistance of axially loaded members: Comparison with experimental results, J Construct Steel Res 37(3) 175-204 (1996), 11A769
Appraisal of the design rules in Eurocode 3 for bolted end-plate joints by comparison with experimental results, Proc Inst Civil Eng Struct Build 116(2) 221-234 (May 1996), 11A770
Calculation of serviceability deflections for non-sway frames with semi-rigid connections, Proc Inst Civil Eng Struct Build 116(2) 186-193 (May 1996), 11A771
Design of composite timber-concrete beams, Facta Univ Architec Civil Eng 1(2) 167-176 (1995), 11T772
Evolutionary structural optimization for problems with stiffness constraints, Finite Elements Anal Des 21(4) 239-251 (Apr 1996), 11A773
Numerical studies of fatigue induced by breathing of slender web plates, Thin-Walled Struct 25(4) 319-333 (1996), 11A774
Stability of cold formed purlins braced by steel sheeting, Thin-Walled Struct 25(4) 247-268 (1996), 11A775
Geometric axis bending strength of double angle beams, J Construct Steel Res 38(1) 23-40 (1996), 12A588
Design methods for profiled steel decks with intermediate stiffeners, J Construct Steel Res 38(1) 61-88 (1996), 12A848

282Y. Computational techniques

Choice of steel bracing in frame structures on the base of rigidity criteria, Inzynieria Budownictwo 52(12) 421-424 (7-8 1995), 1A901
Design analysis of steel members strengthened by increasing of their sections, Inzynieria Budownictwo 52(12) 401-406 (7-8 1995), 1A902
Effect of masonry cracks on the composite action between steel lintels and masonry walls, Eng Trans 43(1-2) 151-167 (1995), 1A903
Nonlinear FE analysis of no-tension masonry structures, Meccanica 30(3) 233-249 (Jun 1995), 1A904
Pseudo element method for solving matrix with elementary operation and its application, Comput Struct 57(4) 581-588 (Nov 1995), 1A905
Dynamic response analysis of nonlinear structures using step-by-step integration techniques, Comput Struct 57(6) 1063-1070 (Dec 1995), 2A116
Considerations on modal reanalysis of nonconservative dynamics systems by the generalized receptance method, Comput Struct 57(6) 1029-1034 (Dec 1995), 2A776
Portable FORTRAN programming tools in the development of a structural analysis program, Comput Struct 57(6) 1109-1125 (Dec 1995), 2A777
Experimental investigation and theoretical analysis of large miter gates, Asian J Struct Eng 1(2) 174-185 (1995), 2A778
Adaptive topology optimization, Struct Optim 10(2) 100-112 (Oct 1995), 3A750
Component mode synthesis-based design optimization method for local structural modification, Struct Optim 10(2) 128-136 (Oct 1995), 3A752
Discrete-variable optimal structural design using tabu search, Struct Optim 10(2) 87-93 (Oct 1995), 3A756
Generalized topology design of structures with a buckling load criterion, Struct Optim 10(2) 71-78 (Oct 1995), 3A758
Nested approach to structural optimization in nonsmooth mechanics, Struct Optim 10(2) 79-86 (Oct 1995), 3A760
Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, Struct Optim 10(2) 122-127 (Oct 1995), 3A763
Numerical approach to steel fiber reinforced concrete under torsion, Struct Eng Review 7(2) 83-91 (May 1995), 3A779
Simple design of concrete walls and structural members under combined tension and moment, ACI Struct J 92(5) 574-579 (Oct 1995), 3A785
Designing reinforced concrete short-tied columns using the optimization technique, ACI Struct J 92(5) 619-626 (Oct 1995), 3A796
Discrete analysis method for structural correlation responses, Comput Struct 58(1) 143-153 (Jan 1996), 3A798
Model correlation using multiple static load and vibration tests, AIAA J 33(11) 2182-2188 (Nov 1995), 4A145
Hybrid parallel computation of transcendental structural eigenvalues, AIAA J 33(11) 2194-2198 (Nov 1995), 4A227
Application of nonlinear finite strip technique to concrete deep beams, Eng Struct 17(10) 725-736 (Dec 1995), 4A809
Estimation of system matrices by dynamic condensation and application to structural modification, AIAA J 33(11) 2199-2204 (Nov 1995), 4A810
Global-local analysis of large-scale composite structures using FEMs, Comput Struct 58(3) 453-464 (Feb 1996), 4A811
Hybrid changeable basis Galerkin technique for nonlinear analysis of structures, Appl Math Mech 16(7) 667-674 (Jul 1995), 4A812
Hybrid neurocomputing-numerical strategy for nonlinear structural analysis, Comput Struct 58(4) 661-677 (Feb 1996), 4A813
Structural reanalysis in configuration space by perturbation approach: A real mode method, Comput Struct 58(4) 739-746 (Feb 1996), 4A814
Using transfer function parameter changes for damage detection of structures, AIAA J 33(11) 2189-2193 (Nov 1995), 4A815
Error analysis of indirect force determination and a regularization method to reduce force determination error, Mech Syst Signal Processing 9(6) 615-633 (Nov 1995), 5A318
Behavior of reinforced concrete membrane elements in shear, ACI Struct J 92(6) 665-679 (Dec 1995), 5A705
Behavior of steel frames subject to fire, J Construct Steel Res 35(3) 291-322 (1995), 5A718
Decomposition methods in the analysis of repetitive structures, Comput Struct 58(5) 973-980 (Mar 1996), 5A725
Three dimensional structural analysis by the integrated force method, Comput Struct 58(5) 869-886 (Mar 1996), 5A726
Characteristics of an off-center bracing system, J Construct Steel Res 35(3) 361-376 (1995), 5A729
Calculation of the characteristics of a bearing under steady and transient conditions (French), European J Mech Eng 40(4) 221-226 (1995), 6A1044
Failure loads of slender reinforced concrete columns, Proc Inst Civil Eng Struct Build 110(4) 339-350 (Nov 1995), 7A936
Flexural response of concrete beams reinforced with FRP reinforcing bars, ACI Struct J 93(1) 46-55 (Feb 1996), 7A937
Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), J Soc Mat Sci Japan 44(507) 1409-1416 (Dec 1995), 7A947
Adjustment of stiffness matrices, Comput Struct 59(1) 35-41 (Apr 1996), 7A961
Calculation of stress-strained state of spatial constructions on the basis of a sequence of quasi-regular grids, Prikl Mekh (Appl Mech) 31(2) 79-86 (1995), 7A962
Quadratic programming for degenerate shakedown problems of bar structures, Mech Res Commun 23(2) 195-203 (Apr 1996), 8T705
Reliability analysis by numerical quadrature and maximum entropy method, Struct Eng and Mech 3(2) 135-144 (Mar 1995), 8A734
High precision direct integration scheme for analyzing structural nonstationary random responses (Chinese), J Dalian Univ Tech 35(5) 600-605 (Oct 1995), 8A760
Variational principle in calculating the long-term strength of structures, J Appl Math Mech 59(5) 821-826 (1995), 8A763
Probabilistic model for concrete subjected to variable loading, Arch Civil Eng 41(3) 477-485 (1995), 9A880
Analysis of concrete placement load effects using influence surfaces, ACI Struct J 93(2) 180-186 (Apr 1996), 9A907
Computational approach to path-dependent nonlinear RC-soil interaction, Proc JSCE 532(V-30) 197-207 (Feb 1996), 9A908
Fixed angle softened truss model for reinforced concrete, ACI Struct J 93(2) 197-207 (Apr 1996), 9A916
Modular approach to structure assembly computations: Applications to contact problems, Eng Comput 13(1) 15-32 (1996), 9A939
Setdown of a catenary-moored gravity platform, Marine Struct 9(7) 721-742 (Aug 1996), 9A957
Structural Analysis, Design and Control by the Virtual Distortion Method (Wiley, New York, 1995) 10R19
Experimental verification of the method of deflection analysis of RC members subjected to bending (Polish), Inzynieria Budownictwo 53(4) 230-232 (1996), 10A895
Treatment of strain reversal in structural members during the cooling phase of a fire, J Construct Steel Res 37(2) 115-135 (1996), 10A899
Parameter estimation of structures from static strain measurements - I: Formulation, J Struct Eng 122(5) 555-582 (May 1996), 10A906
Parameter estimation of structures from static strain measurements - II: Error sensitivity analysis, J Struct Eng 122(5) 563-572 (May 1996), 10A907
Random simulation of material effort of precast RC beam spans (Polish), Inzynieria Budownictwo 53(3) 191-193 (1996), 10A908
Structural Mechanics: Graph and Matrix, 2nd edition - Appl and Eng Math Series (Wiley, New York, 1995) 11N38
Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, Eng Struct 18(7) 558-563 (Jul 1996), 11A137
Analysis of reinforced concrete members subject to shear and axial compression, ACI Struct J 93(3) 306-315 (Jun 1996), 11A744
Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), Proc JSCE 537(I-35) 97-106 (Apr 1996), 11A752
Simplified estimation procedure of degree of imperfection for composite girder with partial interaction (Japanese), Proc JSCE 537(I-35) 89-96 (Apr 1996), 11A762
Calculation of serviceability deflections for non-sway frames with semi-rigid connections, Proc Inst Civil Eng Struct Build 116(2) 186-193 (May 1996), 11A771
Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), Proc JSCE 537(I-35) 145-153 (Apr 1996), 11A776
Self-scaling implicit SQP method for large scale structural optimization, Int J Numer Methods Eng 39(11) 1933-1953 (Jun 1996), 11A777
Solution of problems of structural mechanics by the method of interpolation as to form factor, Russian Aeronaut 38(3) 79-82 (1995), 11A778
Modified eigenstructure assignment technique for FE model updating, Shock Vib 3(4) 247-258 (1996), 12A20
Domain decomposition PCG methods for serial and parallel processing, Adv Eng Software 25(2-3) 291-307 (1996), 12A849
Input-output decoupling with simultaneous disturbance attenuation and H^{∞} optimization problem in structural analysis, Comput Struct 60(4) 627-633 (Jun 1996), 12A850
Parallel computing for analysis of variable geometry trusses, AIAA J 34(7) 1468-1473 (Jul 1996), 12A855

282Z. Experimental techniques

Damage-mitigating control of mechanical structures: Experimental verification of the concept, Smart Mat Struct 4(2) 139-146 (Jun 1995), 1A883
Effect of masonry cracks on the composite action between steel lintels and masonry walls, Eng Trans 43(1-2) 151-167 (1995), 1A903
Influence of raised temperatures on strength and deformability of concrete, Inzynieria Budownictwo 52(12) 410-412 (7-8 1995), 1A906
Investigation of shrinkage crack resistance of concrete, Inzynieria Budownictwo 52(12) 417-420 (7-8 1995), 1A907
Square and rectangular hollow sections under transverse end-bearing force, J Struct Eng 121(9) 1323-1329 (Sep 1995), 1A908
Experimental investigation and theoretical analysis of large miter gates, Asian J Struct Eng 1(2) 174-185 (1995), 2A778
Constitutive laws of softened concrete in biaxial tension-compression, ACI Struct J 92(5) 562-573 (Oct 1995), 3A4
Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, J Mat in Civil Eng 7(4) 252-257 (Nov 1995), 3A774
Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, ACI Struct J 92(5) 610-618 (Oct 1995), 3A777
Probabilistic approach to fatigue life prediction of repaired reinforced concrete slabs, ACI Struct J 92(5) 553-561 (Oct 1995), 3A780
Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, ACI Struct J 92(5) 543-552 (Oct 1995), 3A782
Shear response of dowel reinforced SIFCON, ACI Struct J 92(5) 587-596 (Oct 1995), 3A784
Studies on concrete slabs with stud shear reinforcement in vicinity of edge and corner columns, ACI Struct J 92(5) 515-525 (Oct 1995), 3A787
Influence of galvanic waste additives on properties of ordinary concrete (Polish), Inzynieria Budownictwo 52(10) 552-554 (1995), 3A799
Properties of steel fiber reinforced concrete with steel filings, Arch Civil Eng 41(3) 487-492 (1995), 3A800
Local buckling of cold formed steel sheeting in profiled composite beams at service loads, Struct Eng Review 7(4) 289-300 (Nov 1995), 4A569
Non-destructive testings and their feasibility study in concrete structures (Japanese), Proc JSCE 522(VI-28) 87-95 (Sep 1995), 4A816
Behavior of reinforced concrete membrane elements in shear, ACI Struct J 92(6) 665-679 (Dec 1995), 5A705
Effects of epoxy coating on anchorage and development of welded wire fabric, ACI Struct J 92(6) 757-764 (Dec 1995), 5A707
In-plane behavior of grouted concrete masonry under biaxial tension-compression, ACI Struct J 92(6) 653-664 (Dec 1995), 5A708
Pull-out strength of bars embedded in high performance concrete (French), Mat Struct 28(184) 569-574 (Dec 1995), 5A711
Steel fibers as shear reinforcement in partially prestressed beams, ACI Struct J 92(6) 643-652 (Dec 1995), 5A713
Ultimate stress for unbonded post-tensioning tendons in partially prestressed beams, ACI Struct J 92(6) 689-697 (Dec 1995), 5A715
Behavior of composite walling under construction and service loading, J Construct Steel Res 35(3) 257-273 (1995), 5A716
Tensile capacity of anchors with partial or overlapping failure surfaces: Evaluation of existing formulas on an LRFD basis, ACI Struct J 92(6) 698-710 (Dec 1995), 5A724
Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, ACI Struct J 92(6) 765-780 (Dec 1995), 5A1329
Push-out tests on studs in high strength and normal strength concrete, J Construct Steel Res 36(1) 15-29 (1996), 6A752
Effect of errors in deflection readings and pavement model on backcalculated layer moduli (Japanese), Proc JSCE 526(II) 55-62 (Nov 1995), 6A765
Finite element modeling of behaviors of steel beams and connections in fire, J Construct Steel Res 36(3) 181-199 (1996), 7A14
Multicriteria optimal design of stiffened plates - Part I: Choice of the formula for the buckling load, Thin-Walled Struct 24(4) 353-369 (1996), 7A634
Design of nonflexural members with normal and high-strength concretes, ACI Struct J 93(1) 3-10 (Feb 1996), 7A932
Effect of embedment length of tension reinforcement on the behavior of lightweight concrete deep beams, ACI Struct J 93(1) 21-29 (Feb 1996), 7A933
Effect of precast concrete planks on shear connector strength, J Construct Steel Res 36(3) 201-213 (1996), 7A934
Flexural response of concrete beams reinforced with FRP reinforcing bars, ACI Struct J 93(1) 46-55 (Feb 1996), 7A937
Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, ACI Struct J 93(1) 30-35 (Feb 1996), 7A938
Tensile bond strength of deformed bars of high-strength concrete, ACI Struct J 93(1) 11-20 (Feb 1996), 7A943
Seismic assessment and retrofit of bridge column footings, ACI Struct J 93(1) 79-94 (Feb 1996), 7A949
Flange curling in profiled steel decks, Thin-Walled Struct 25(1) 1-29 (1996), 7A952
Prototype test on x-bracing panels using cold-formed lipped angles, Thin-Walled Struct 25(1) 31-46 (1996), 7A957
Behavior of steel-to-concrete connections under combined axial force and cyclic bending, J Construct Steel Res 36(2) 121-147 (1996), 7A963
Experimental methods of simulating parameters of elastically attached loads when testing dynamically similar model of airplane, Russian Aeronaut 38(2) 83-85 (1995), 8A764
Effectiveness of shear reinforcement for normal and high-strength concrete beams, Struct Eng Review 8(1) 65-78 (Feb 1996), 9A912
Fretting fatigue in post-tensioned concrete beams, ACI Struct J 93(2) 172-179 (Apr 1996), 9A918
Performance of strengthened concrete deep beams predamaged in shear, ACI Struct J 93(2) 159-171 (Apr 1996), 9A921
Wet concrete loading of profiled trough girders, Thin-Walled Struct 25(2) 81-108 (1996), 9A927
Analysis and design of large diagonal bracing connections, Struct Eng Review 8(1) 1-27 (Feb 1996), 9A934
Application of dewaterers and sorbents in impregnation of building materials, Arch Civil Eng 41(3) 461-476 (1995), 9T940
Assessment of nonlinearity of moisture diffusion in cement mortar, Arch Civil Eng 42(1) 19-28 (1996), 9A941

Effects of adjacent braces on the static strength of a corner YT joint, Proc Inst Civil Eng Struct Build 116(1) 44-53 (Feb 1996), 9A942
Influence of environmental moisture conditions upon the rate of water movement in concrete during the process of drying, Arch Civil Eng 41(4) 541-550 (1995), 9A943
Influence of the coarse-aggregate on the compressive strength of the Polcrete concrete, Arch Civil Eng 41(4) 601-605 (1995), 9A944
Optimization of the structure of a multilayer cylindrical shell under stability loss conditions, Eng Trans 43(4) 495-504 (1995), 9A945
Rheological properties of fresh bentonite-cement slurries modified by selected sodium salts, Arch Civil Eng 41(4) 551-565 (1995), 9A946
Static strength of tubular T and Y joints under combined bending and axial loading, Proc Inst Civil Eng Struct Build 116(1) 29-43 (Feb 1996), 9A947
Effects of stingers on receptance function measurements, J Vib Acoust 118(2) 220-226 (Apr 1996), 10A206
Data compression method for the modal analysis of spatially dense laser vibrometer measurements, J Brazilian Soc Mech Sci 18(1) 17-23 (Mar 1996), 10A242
Experimental implementation of the internal resonance control strategy, J Sound Vib 191(3) 377-396 (Apr 1996), 10A883
Effects of cement and curing upon carbonation and reinforcement corrosion in concrete, Mat Struct 29(187) 164-173 (Apr 1996), 10A893
Investigations on the influence of oxygen on corrosion of steel in concrete - Part I, Mat Struct 29(187) 174-184 (Apr 1996), 10A896
Creeping of hardening concrete under tension (Polish), Inzynieria Budownictwo 53(5) 296-300 (1996), 10A909
Experimental investigation of box-section floor elements (Polish), Inzynieria Budownictwo 53(5) 303-305 (1996), 10A910
Influence of material distribution between flanges and Web on the behavior of wooden beams with flexible joints (Polish), Inzynieria Budownictwo 53(5) 300-302 (1996), 10A911
Shear behavior of press-joining in cold-formed steel structures, Thin-Walled Struct 25(3) 153-170 (1996), 10A912
Strain measurement in the smart composite, Chinese J Aeronaut 9(1) 55-63 (Feb 1996), 10A913
Bond and splitting in reinforced concrete: Test results on bar pull-out, Mat Struct 29(189) 267-276 (Jun 1996), 11A746
Bond strength of noncontact tension lap splices, ACI Struct J 93(3) 316-326 (Jun 1996), 11A747
Flexural behavior of reinforced concrete masonry walls under out-of-plane monotonic loads, ACI Struct J 93(3) 327-335 (Jun 1996), 11A753
Grouted precast concrete column connections under reversed cyclic bending and compression, ACI Struct J 93(3) 247-256 (Jun 1996), 11A754
Intrinsic mechanisms in reinforced concrete beam-column connection behavior, ACI Struct J 93(3) 336-346 (Jun 1996), 11A755
Investigations on the influence of oxygen on corrosion of steel in concrete - Part 2, Mat Struct 29(188) 226-232 (May 1996), 11A756
Reinforced concrete T-beams with large web openings in positive and negative moment regions, ACI Struct J 93(3) 277-289 (Jun 1996), 11A761
Appraisal of the design rules in Eurocode 3 for bolted end-plate joints by comparison with experimental results, Proc Inst Civil Eng Struct Build 116(2) 221-234 (May 1996), 11A770

284. STRUCTURES (GROUND)

Evaluation of an effect of a porous asphalt pavement to add an infiltration pipe on runoff control (Japanese), Proc JSCE 521(II-32) 29-38 (Aug 1995), 3A1255

284B. Bridges

Optimal deflection control of multi-segment traversing beams, Smart Mat Struct 4(2) 75-82 (Jun 1995), 1A885
Buckling modes of plate-girders curved in plan, Proc JSCE 519(I-32) 51-56 (Jul 1995), 1A909
Combined BE and FE analysis of composite box girder bridges, Comput Struct 57(3) 427-437 (Nov 1995), 1A910
Diaphragm effectiveness in prestressed-concrete girder bridges, J Struct Eng 121(9) 1362-1369 (Sep 1995), 1A911
Stephen H Long and Squire Whipple: The first American structural engineers, J Struct Eng 121(9) 1352-1361 (Sep 1995), 1A912
Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), Proc JSCE 519(I-32) 101-113 (Jul 1995), 1A1389
Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), Proc JSCE 519(V-28) 183-193 (Aug 1995), 2T755
Seismic performance of single-span simply supported and continuous slab-on-girder steel highway bridges, J Struct Eng 121(10) 1497-1506 (Oct 1995), 2A1246
Fatigue assessment of through plate girder railway bridges, J Struct Eng 121(11) 1613-1619 (Nov 1995), 3A655
Analysis of concrete cable-stayed bridges for creep, shrinkage, and relaxation effects, Comput Struct 58(2) 337-350 (Jan 1996), 3A801
Reliability analysis for highway bridge deck assessment, Struct Safety 17(3) 135-150 (Oct 1995), 3A802
Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), Stahlbau 9 265-270 (Sep 1995), 3A803
Stand for testing of full-scale bidges (Polish), Inzynieria Budownictwo 52(10) 537-540 (1995), 3A804
Behavior of bridge outrigger knee joint systems, Earthquake Spectra 11(3) 477-509 (Aug 1995), 3A1318
Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), Proc JSCE 523(III-32) 111-123 (Sep 1995), 4A623
Aseismic structure of the foundations of super long span bridges (Japanese), Proc JSCE 522(VI-28) 165-175 (Sep 1995), 4A817
Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), Proc JSCE 522(VI-28) 97-106 (Sep 1995), 4A818
Local deck effects in stress-laminated T-system timber bridges, Struct Eng Review 7(4) 267-276 (Nov 1995), 4A819
New design technique for pre-stressed loads of a cable-stayed bridge, Comput Struct 58(3) 607-612 (Feb 1996), 4A820
Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, Thin-Walled Struct 24(1) 19-51 (1996), 5A16
Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), Proc JSCE 525(I-33) 191-200 (Oct 1995), 5A727
Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), Proc JSCE 525(I-33) 69-82 (Oct 1995), 5A1325
Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), Proc JSCE 525(I-33) 83-95 (Oct 1995), 5T1328
Analysis and Design of Reinforced Concrete Bridge Structures (Am Concrete Inst, Detroit, 1995) 6N19
Modal analysis for masonry arch bridge spandrell wall separation identification, NDT&E Int 28(6) 377-386 (Dec 1995), 6A160
Ultrasonic measurements and static load tests in bridge evaluation, NDT&E Int 28(6) 331-337 (Dec 1995), 6A695
Advanced NDT methods for evaluating concrete bridges and other structures, NDT&E Int 28(6) 349-357 (Dec 1995), 6A766
Behavior of RC bridge decks with flexible girders, J Struct Eng 122(1) 11-19 (Jan 1996), 6A767
Evaluation and testing of a fracture critical bridge, NDT&E Int 28(6) 339-347 (Dec 1995), 6A768
Integrity assessment of masonry arch bridges using the dynamic stiffness technique, NDT&E Int 28(6) 367-375 (Dec 1995), 6A769
Strengthening of composite steel-concrete bridges, J Struct Eng 121(12) 1842-1849 (Dec 1995), 6A770
Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), Proc JSCE 529(III-33) 177-189 (Dec 1995), 7A708
Behavior of trough stiffener to crossbeam connections in orthotropic steel bridge decks, Heron 40(3) 217-259 (1995), 7A964
Reliability of composite steel bridge beams designed following AASHTO's LFD with LRFD specifications, Struct Safety 17(4) 225-237 (Feb 1996), 7A965
Service load test of 1:3 scale shell bridge model, J Struct Eng 122(2) 210-216 (Feb 1996), 7A966
Dynamics of Railway Bridges (Telford, UK, 1996) 8R4
Arch Bridges (Telford, UK, 1995) 8N12
Expert system for preliminary bridge design (Chinese), J Dalian Univ Tech 36(1) 72-75 (Jan 1996), 8A341
Fatigue load monitoring in steel bridges with Rayleigh waves, J Nondestruct Eval 14(3) 83-98 (Sep 1995), 8A696
Fundamental study on strain dispersion function of the grid panel type buried joint (Japanese), Proc JSCE 532(V-30) 77-87 (Feb 1996), 9A879
Energy dissipation capability of reinforced concrete bridge piers that fail in flexure at bottom (Japanese), Proc JSCE 532(V-30) 5-13 (Feb 1996), 9A914
Flexural and shear behavior of bridge pier caps, Struct Eng Review 8(1) 37-47 (Feb 1996), 9A917
Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), Proc JSCE 534(VI-30) 97-108 (Mar 1996), 10A914
History of vaulted bridges (Polish), Inzynieria Budownictwo 53(3) 199-201 (1996), 10A915
Moment redistribution in continuous RC bridges which spans are cast in segments (Polish), Inzynieria Budownictwo 53(5) 292-296 (1996), 10A916
Ultimate behavior of tie plates at high-speed tension, J Struct Eng 122(4) 416-422 (Apr 1996), 10A917
Dynamic response of a tower-pier system on viscoelastic foundation with frictional interface, Eng Struct 18(7) 546-557 (Jul 1996), 11A142
Flutter stability of decks for super long-span bridge (Japanese), Proc JSCE 537(I-35) 191-203 (Apr 1996), 11A225
Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), Proc JSCE 537(I-35) 77-88 (Apr 1996), 11A569
Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), Proc JSCE 537(I-35) 291-302 (Apr 1996), 11A570
Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), Proc JSCE 537(I-35) 155-166 (Apr 1996), 11A642
Study on correlativity for paint film deterioration of steel bridge with corrosion under paint films (Japanese), Proc JSCE 537(I-35) 167-181 (Apr 1996), 11A647
Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), Proc JSCE 537(I-35) 145-153 (Apr 1996), 11A776
Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), Proc JSCE 537(I-35) 119-131 (Apr 1996), 11A779
Parametric studies on cable-stayed bridges, Comput Struct 60(2) 243-260 (Jul 1996), 11A780
Static behaviors of long-span cable-stayed bridge (Japanese), Proc JSCE 537(I-35) 203-215 (Apr 1996), 11A781
Dynamic response of highway girder bridges, Comput Struct 60(6) 1021-1027 (Jul 1996), 12A199
Computer aided design of prestressed concrete highway bridges, Comput Struct 60(6) 957-969 (Jul 1996), 12A845

284C. Dams and spillways

Evaluation of dynamic interaction effects of 2D dam-foundation-reservoir systems (Japanese), Proc JSCE 519(I-32) 199-209 (Jul 1995), 1A913
Fracture response of gravity dams due to rise of reservoir elevation, J Struct Eng 121(9) 1298-1305 (Sep 1995), 1A914
Centrifuge modeling and analysis of concrete gravity dams, J Struct Eng 121(10) 1471-1479 (Oct 1995), 2A779
Three-dimensional joint elements applied to concrete-faced dams, Int J Numer Anal Methods Geomech 19(9) 615-636 (Sep 1995), 2A780
Simplified formula of the natural period of CFRD (Chinese), J Vib Eng 8(3) 274-280 (Sep 1995), 4A621
Dam-foundation rock interaction effects in frequency-response functions of arch dams, Earthquake Eng Struct Dyn 24(11) 1475-1489 (Nov 1995), 4A1329
Earthquake analysis of arch dams including dam-water-foundation rock interaction, Earthquake Eng Struct Dyn 24(11) 1453-1474 (Nov 1995), 4A1330
Strength of welded T-DT joints in rectangular and circular hollow section under variable axial loads, J Construct Steel Res 37(1) 1-31 (1996), 8A765
Multiobjective optimization of hard disk suspension assemblies - Part I: Structure design and sensitivity analysis, Comput Struct 59(4) 757-770 (May 1996), 9A948
Multiobjective optimization of hard-disk suspension assemblies - Part II: Integrated structure and control design, Comput Struct 59(4) 771-782 (May 1996), 9A949
Hydraulic Structures, Second Edition (E&FN Spon, Andover, Hants, UK, 1995) 10N20
Finite element analysis of concrete swelling due to alkali-aggregate reactions in dams, Comput Struct 60(4) 601-611 (Jun 1996), 12A851
Finite element analysis of dam-reservoir systems using an exact far-boundary condition, Comput Struct 60(5) 751-762 (Jul 1996), 12A852

284D. Tunnels

Development of novel material shield-cuttable tunnel-wall system (Japanese), Proc JSCE 522(VI-28) 31-34 (Sep 1995), 4T821
Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), Proc JSCE 522(VI-28) 143-153 (Sep 1995), 4T822
Study on the limit state design method for tunnel linings (Japanese), Proc JSCE 523(III-32) 141-149 (Sep 1995), 4A823
Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), Proc JSCE 522(VI-28) 27-30 (Sep 1995), 4T824
Transversal seismic analysis of shield tunnels in layered half-space soils (Japanese), Proc JSCE 525(I-33) 226-235 (Oct 1995), 5A728
Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), Proc JSCE 525(I-33) 341-344 (Oct 1995), 5A1315
Proposal of a seismic isolation structure for urban tunnels and the method to evaluate its isolation effects (Japanese), Proc JSCE 525(I-33) 275-285 (Oct 1995), 5A1326
Fracture mechanics-based design method for SFRC tunnel linings, Proc JSCE 532(V-30) 221-233 (Feb 1996), 9A790
Consideration on design for tunnel pre-lining (Japanese), Proc JSCE 534(VI-30) 55-67 (Mar 1996), 10A918
Experimental studies and numerical analyses on the properties of a new type segment for gas pipeline shield tunnel (Japanese), Proc JSCE 535(III-34) 43-56 (Mar 1996), 10A919
Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), Proc JSCE 534(VI-30) 69-76 (Mar 1996), 10A920
In situ creep of a linear viscoelastic rock around some noncircular tunnels - Part II: Boundary stress and displacement concentrations, Mec Appl 40(4-6) 485-502 (Dec 1995), 11A576

284E. Frames, trusses, and arches

Design of steel frames with slender joint-panels, J Construct Steel Res 35(2) 165-187 (1995), 1A649
Elastic-plastic hysteresis analysis of truss structures subject to fluctuating loads based on energy principle (Japanese), Proc JSCE 519(I-32) 57-66 (Jul 1995), 1A915
Generalized linear relationship among displacements of frame structures, Comput Struct 57(3) 439-445 (Nov 1995), 1A916
Optimality and safety of rigidly- and flexibly-jointed steel frames, J Construct Steel Res 35(2) 189-215 (1995), 1A917
Required rotations and moment redistribution for composite frames and continuous beams, J Construct Steel Res 35(2) 121-163 (1995), 1A918
Stone Skeleton: Structural Engineering of Masonry Architecture (Cambridge UP, New York, 1995) 2R23
Shape optimal design of elastic planar frames with nonlinear response, Int J Numer Methods Eng 38(19) 3227-3242 (Oct 1995), 2A732
Analysis and design of steel frames considering panel joint deformations, J Struct Eng 121(10) 1531-1539 (Oct 1995), 2A781
Assessment of translational-torsional coupling in asymmetric uniform wall-frame structures, J Struct Eng 121(10) 1488-1496 (Oct 1995), 2A782
FE model for thin-walled space frame flexible connection behavior, J Struct Eng 121(10) 1514-1521 (Oct 1995), 2A783
Numerical approach to define the rotational stiffness of a prefabricated connection and experimental study, Comput Struct 57(6) 999-1007 (Dec 1995), 2A784
Sizing, shape, and topology design optimization of trusses using genetic algorithms, J Struct Eng 121(10) 1480-1487 (Oct 1995), 2A785
Advanced Analysis of Steel Frames: Theory, Software, and Applications (CRC Press, Boca Raton FL, 1994) 3R15
Kinematic waves in large controlled structures, Mech Solids 30(1) 167-178 (1995), 3A374
Component mode synthesis-based design optimization method for local structural modification, Struct Optim 10(2) 128-136 (Oct 1995), 3A752
Discrete-variable optimal structural design using tabu search, Struct Optim 10(2) 87-93 (Oct 1995), 3A756
Nested approach to structural optimization in nonsmooth mechanics, Struct Optim 10(2) 79-86 (Oct 1995), 3A760
Pseudo-fully stressed design approach for optimum design of steel frames, Int J Numer Methods Eng 38(20) 3513-3527 (Oct 1995), 3A764
Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, ACI Struct J 92(5) 610-618 (Oct 1995), 3A777
Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, ACI Struct J 92(5) 597-609 (Oct 1995), 3A783
Designing reinforced concrete short-tied columns using the optimization technique, ACI Struct J 92(5) 619-626 (Oct 1995), 3A796
Characteristics of prefabricated spatial frame systems, Int J Space Struct 10(3) 151-173 (1995), 3A805
Design and behavior of reticulated spatial structural systems, Int J Space Struct 10(3) 139-149 (1995), 3A806

Large deflection dynamic analysis of space frames, Comput Struct 58(2) 381-387 (Jan 1996), 3A807
Summary survey of prefabricated spatial frame systems, Int J Space Struct 10(3) 175-186 (1995), 3A808
Symmetry-adapted flexibility approach for multi-story space frames - Part 1: General outline and symmetry-adapted redundants, Struct Eng Review 7(2) 107-119 (May 1995), 3A809
Symmetry-adapted flexibility approach for multi-story space frames - Part 2: Symmetry-adapted loads, Struct Eng Review 7(2) 121-130 (May 1995), 3A810
Influence of joint detail on the flexural-torsional interaction of thin-walled structures, Thin-Walled Struct 24(2) 97-111 (1996), 5A12
Large deformation elastic-plastic analysis of space frames, J Construct Steel Res 35(3) 275-290 (1995), 5A490
Saint-Venant decay rates: A procedure for the prism of general cross-section, Comput Struct 58(6) 1059-1066 (Mar 1996), 5A496
Story stability and minimum bracing in RC framed structures: A general approach, ACI Struct J 92(6) 735-744 (Dec 1995), 5A714
Behavior of steel frames subject to fire, J Construct Steel Res 35(3) 291-322 (1995), 5A718
Numerical simulation of a full scale fire test on a loaded steel framework, J Construct Steel Res 35(3) 377-408 (1995), 5A720
Characteristics of an off-center bracing system, J Construct Steel Res 35(3) 361-376 (1995), 5A729
Finite element analysis of quasi-static and dynamic collapse behaviors of framed structures by the adaptively shifted integration technique, Comput Struct 58(5) 947-955 (Mar 1996), 5A730
Nonlinear analysis for 3D steel frames in fire conditions, Eng Struct 18(1) 77-89 (Jan 1996), 5A731
Progressive failure analysis of inelastic space truss structures, Comput Struct 58(5) 981-990 (Mar 1996), 5A732
Three-dimensional nonlinear analysis of elastic arches, Eng Struct 18(1) 49-63 (Jan 1996), 5A733
Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, ACI Struct J 92(6) 765-780 (Dec 1995), 5A1329
Exact structural reanalysis by a first-order reduced basis approach, Struct Optim 10(3-4) 153-158 (Dec 1995), 6A715
Optimal physically nonlinear trusses, Struct Optim 10(3-4) 159-166 (Dec 1995), 6A721
Optimization of a frame structure subjected to a plastic deformation, Struct Optim 10(3-4) 197-208 (Dec 1995), 6A722
Barrel-vault space trusses shaped by posttensioning, J Struct Eng 121(12) 1758-1764 (Dec 1995), 6A771
Nonlinear analysis of semirigid frames: A parametric complementarity approach, Eng Struct 18(2) 115-124 (Feb 1996), 6A772
Uniqueness in analysis of semirigid frames, J Struct Eng 122(1) 110-111 (Jan 1996), 6A773
Finite element modeling of behaviors of steel beams and connections in fire, J Construct Steel Res 36(3) 181-199 (1996), 7A14
Static and dynamic axial collapse of fiberglass composite automotive frame rails, Composite Struct 34(1) 77-90 (1996), 7A579
Genetic algorithms as an approach to optimize real-world trusses, Int J Numer Methods Eng 39(3) 361-382 (Feb 1996), 7A902
Structural effectiveness of large volume patch repairs to concrete structures, Proc Inst Civl Eng Struct Build 118(4) 351-360 (Nov 1995), 7A942
Flange curling in profiled steel decks, Thin-Walled Struct 25(1) 1-29 (1996), 7A952
Lateral-torsional buckling of unrestrained steel beam in fire, J Construct Steel Res 36(2) 101-119 (1996), 7A954
Behavior of steel-to-concrete connections under combined axial force and cyclic bending, J Construct Steel Res 36(2) 121-147 (1996), 7A963
Analysis of pantograph foldable structures, Comput Struct 59(1) 131-140 (Apr 1996), 7A967
Residual strength of aluminum plate girders with scattered holes in the web panels, Proc Inst Civl Eng Struct Build 118(4) 361-372 (Nov 1995), 7A968
Sensitivity analysis of truss and frame structures in critical states, Mech Struct Machines 24(1) 105-134 (1996), 7A969
Simplified geometrically nonlinear elastoplastic analysis of semirigid frames, Mech Struct Machines 24(1) 1-20 (1996), 7A970
Finite element method for frames with variable characteristics, Mech Res Commun 23(2) 213-220 (Apr 1996), 8A16
Composite connections in steel and concrete - Part 2: Moment capacity of end plate beam to column connections, J Construct Steel Res 37(1) 63-90 (1996), 8A766
Large displacement elastoplastic analysis of semirigid steel frames, Int J Numer Methods Eng 39(5) 741-762 (Mar 1996), 8A767
Layout optimization of truss structures with discrete sizing variables (Chinese), J Dalian Univ Tech 35(4) 458-462 (Aug 1995), 8A768
Reliability analysis and full-scale testing of transmission tower, J Struct Eng 122(3) 338-344 (Mar 1996), 8A769
Nonlinear response of a family of simple 3D trusses, Int J Solids Struct 33(15) 2161-2176 (Jun 1996), 9A159
Parametric identification of truss structures by using transient response, J Sound Vib 191(2) 273-287 (Mar 1996), 9A207
Optimal frame design with discrete members using the complex method, Comput Struct 59(5) 847-858 (Jun 1996), 9A888
Study on optimization of power transmission pylons by minimization of the square sum of the natural periods, Comput Struct 59(5) 805-812 (Jun 1996), 9A894
Automatic analysis of multicell thin-walled sections, Comput Struct 59(4) 641-655 (May 1996), 9A950
Thin sheet metal (membrane) suspended roof structures, Int J Space Struct 10(4) 237-241 (1995), 10A613
Approximate discrete variable optimization of frame structures with dual methods, Int J Numer Methods Eng 39(9) 1607-1617 (May 1996), 10A921
Dominant mode method for the minimum time design of slewing flexible structures, Comput Struct 59(6) 1073-1082 (Jun 1996), 10A922
Dynamic response and power flow in 2D coupled beam structures under in-plane loading, J Acoust Soc Am 99(5) 2930-2937 (May 1996), 10A923
Influence of the concrete strength on the behavior of rigid joints in RC frames (Polish), Inzynieria Budownictwo 53(4) 225-230 (1996), 10A924
Large deformation analysis of inelastic space truss structures, J Struct Eng 122(4) 407-415 (Apr 1996), 10A925
Model to incorporate architectural walls in structural analyses, J Struct Eng 122(4) 431-438 (Apr 1996), 10A926
Optimum design of structures with reference to space structures, Int J Space Struct 10(4) 205-214 (1995), 10A927
Parabolic pantographic deployable antenna, Int J Space Struct 10(4) 195-203 (1995), 10A928
Parameter study of an internal timber tension connection, J Struct Eng 122(4) 446-452 (Apr 1996), 10A929
Refined second-order analysis of frames with members under lateral and axial loads, J Struct Eng 122(5) 548-554 (May 1996), 10A930
Shape formation of deployable metal domes, Int J Space Struct 10(4) 189-194 (1995), 10A931
Stress analysis of spatial frames with consideration of local flexibility of multiplanar tubular joint, Eng Struct 18(6) 465-471 (Jun 1996), 10A932
Theory of a plane regular elastic latticed structure, Mech Solids 30(5) 164-172 (1995), 10A933
Upgrading of braced frames for potential local failures, J Struct Eng 122(5) 470-475 (May 1996), 10A934
Optimization of frame topology using boundary cycle and genetic algorithm, JSME Int J Ser A 39(2) 279-285 (Apr 1996), 10A1026
Nonlinear FE analysis of composite frames, Proc Inst Civl Eng Struct Build 116(2) 244-247 (May 1996), 11A13
Design derivatives for optimization with a critical point constraint, Struct Optim 11(2) 120-127 (Apr 1996), 11A718
Design of joint position for minimum mass 3D frames, Struct Optim 11(2) 95-101 (Apr 1996), 11A719
Difficulties in truss topology optimization with stress and local buckling constraints, Struct Optim 11(2) 134-136 (Apr 1996), 11A721
Calculation of serviceability deflections for non-sway frames with semi-rigid connections, Proc Inst Civl Eng Struct Build 116(2) 186-193 (May 1996), 11A771
Along-wind response of lattice towers - II: Aerodynamic damping and deflections, Eng Struct 18(7) 483-488 (Jul 1996), 11A782
Along-wind response of lattice towers - III: Effective load distributions, Eng Struct 18(7) 489-494 (Jul 1996), 11A783
Analysis of linear systems with semi-rigid connections, Facta Univ Architec Civil Eng 1(2) 125-144 (1995), 11T784
Design sensitivity analysis of truss structures with elastoplastic material, Mech Struct Machines 24(2) 189-216 (1996), 11A785
Development of a new space truss system, J Construct Steel Res 37(3) 205-227 (1996), 11A786
Connections in cold-formed thin-walled structures, Comput Struct 60(1) 169-172 (Jul 1996), 11A830
High-order element for prebuckling and buckling analysis of laminated plane frames, Int J Numer Methods Eng 39(13) 2155-2168 (Jul 1996), 12A633
Difficulties in truss topology optimization with stress, local buckling and system stability constraints, Struct Optim 11(3-4) 213-217 (Jun 1996), 12A811
Norm-relaxed method of feasible directions: Application in structural optimization, Struct Optim 11(3-4) 187-194 (Jun 1996), 12A816
Two approaches for truss topology optimization: A comparison for practical use, Struct Optim 11(3-4) 137-144 (Jun 1996), 12A833
Automatic computation of plastic collapse loads for frames, Comput Struct 60(3) 391-402 (Aug 1996), 12A853
Optimization of frames with semi-rigid connections, Comput Struct 60(4) 531-539 (Jun 1996), 12A854
Parallel computing for analysis of variable geometry trusses, AIAA J 34(7) 1468-1473 (Jul 1996), 12A855
Dynamic continuum modeling of truss-type space structures using spectral elements, J Spacecraft Rockets 33(3) 404-409 (Jun 1996), 12A863

284G. Buildings

Stone Skeleton: Structural Engineering of Masonry Architecture (Cambridge UP, New York, 1995) 2R23
Flexibility of TLD to high-rise building by simple experiment and comparison, Comput Struct 57(5) 855-861 (Dec 1995), 2A87
Analysis of free vibrations of high-rise structures, Asian J Struct Eng 1(1) 16-25 (1995), 2A130
Steel frames in fire: Analysis, Eng Struct 17(6) 462-472 (Jul 1995), 2A786
Composite action between steel lintels and masonry walls, Struct Eng Review 7(2) 75-82 (May 1995), 3A811
Dynamic investigation of prefabricated buildings with bearing concrete walls subjected to quarry blasts (Polish), Inzynieria Budownictwo 52(9) 447-450 (1995), 3A812
Data generation in the analysis of wall-plate building structures (Polish), Inzynieria Budownictwo 52(12) 684-686 (1995), 6A774
Relation between phase composition, pore structure, and compressive strength of carbonated mortar, Proc JSCE 526(II) 133-141 (Nov 1995), 6T862
Compendium of design office problems: Volume II, J Struct Eng 122(2) 116-124 (Feb 1996), 7A971
Modeling of subsoil flexibility in computations of complex 3D structural schemes of buildings, Arch Civil Eng 42(1) 83-103 (1996), 9A678
Damping of vibration in precast buildings with bearing concrete walls, Arch Civil Eng 41(3) 331-341 (1995), 9A951
Dynamic identification of a tall building model, Arch Civil Eng 41(3) 377-396 (1995), 9A952
High-temperature properties of stainless steel for building structures, J Struct Eng 122(4) 399-406 (Apr 1996), 10A935
Model investigation of monolithic wall-floor slab joints (Polish), Inzynieria Budownictwo 53(4) 233-236 (1996), 10A936
Shear resistance of gypsum sheathed light-gauge steel stud walls, J Struct Eng 122(4) 383-389 (Apr 1996), 10A937
Weather influenced on constructability of tall structures (Japanese), Proc JSCE 534(VI-30) 125-134 (Mar 1996), 10A938
Design of Steel Structures (Chapman and Hall, New York, 1995) 11R23
Dynamic analysis of coupled shear wall-frame systems, J Sound Vib 192(4) 867-883 (May 1996), 11A140
Static and dynamic analysis of tall tube-in-tube structures by finite story method, Eng Struct 18(7) 515-527 (Jul 1996), 11A141
Nonlinear FE analysis of glass panels, Eng Struct 18(8) 645-652 (Aug 1996), 12A573

284J. Other ground structures

Effect of masonry cracks on the composite action between steel lintels and masonry walls, Eng Trans 43(1-2) 151-167 (1995), 1A903
Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), Proc JSCE 519(I-32) 211-222 (Jul 1995), 1A1390
Approximate analysis of the 3D effects of diaphragm wall installation, Geotechnique 45(3) 497-507 (Sep 1995), 2T512
Performance of push-in spade cells installed in stiff clay, Geotechnique 45(3) 533-539 (Sep 1995), 2T514
Experimental investigation and theoretical analysis of large miter gates, Asian J Struct Eng 1(2) 174-185 (1995), 2A778
Vertical dynamic interaction between train and track: Influence of wheel and track imperfections, J Sound Vib 187(5) 825-839 (Nov 1995), 4A196
Dynamic stiffening of orthogonal beam grillages, J Sound Vib 187(2) 281-286 (Oct 1995), 4A789
Railway noise: Can random sleeper spacings help?, Acustica 81(6) 559-564 (Dec 1995), 7A972
Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, JSME Int J Ser C 39(1) 137-143 (Mar 1996), 9A215
Automated structural design based on knowledge engineering and fuzzy control, Eng Comput 12(7) 593-608 (Oct 1995), 9A953
Dynamic reliability analysis of antenna reflector accuracy under wind excitation, Comput Struct 59(5) 819-822 (Jun 1996), 9A954
Simplified method to determine the moment-curvature relationships of a damaged tubular segment, Eng Struct 18(5) 387-395 (May 1996), 9A975
Simple numerical model for analysis of propped embedded retaining walls, Int J Solids Struct 33(16) 2357-2376 (Jul 1996), 10A689
Natural Draught Cooling Towers - Proc of 4th Int Symp (Balkema, Rotterdam, Netherlands, 1996) 11N33
Response of overground pipelines to random ground motion, Eng Struct 18(7) 537-545 (Jul 1996), 11A1406

286. STRUCTURES (OCEAN AND COASTAL)

286B. Coastal structures

Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), Stahlbau 9 265-270 (Sep 1995), 3A803
Design method of rip rap scour protection works for pier in fast tidal current (Japanese), Proc JSCE 521(II-32) 123-133 (Aug 1995), 3A813

286C. Marine applications

Hydrostatically Loaded Structures: The Structural Mechanics, Analysis, and Design of Powered Submersibles (Pergamon, Tarrytown, NY, 1995) 3R19
Wave response analysis of a flexible floating structure by a simple beam model (Japanese), Proc JSCE 525(I-33) 309-317 (Oct 1995), 5A150
Examination of key aspects defining the performance characteristics of out-of-plane joints in FRP marine structures, Composites Part A Appl Sci and Manuf 27A(2) 89-103 (1996), 6A447

286D. Offshore (fixed platforms, etc)

Concepts for wave-excited offshore structures, J Struct Eng 121(10) 1427-1435 (Oct 1995), 2A787
Dynamic behavior of offshore gravity platform, Asian J Struct Eng 1(2) 208-214 (1995), 2A788
Stochastic response of offshore platforms by statistical cubicization, J Eng Mech 121(10) 1056-1068 (Oct 1995), 2A789
Effects of external pressure on capacity of tubular beam-columns, J Struct Eng 121(11) 1620-1628 (Nov 1995), 3A814
Linearized mechanical model to evaluate reliability of offshore structures, Struct Safety 17(3) 167-193 (Oct 1995), 3A815
Non-Gaussian approach for stochastic analysis of offshore structures, J Eng Mech 121(11) 1173-1180 (Nov 1995), 3A816
Combined axial and lateral responses of tensioned buoyant platform tethers, Eng Struct 17(10) 687-695 (Dec 1995), 4A825
Designing shielded metal arc consumables for underwater wet welding in offshore applications, J Offshore Mech Arctic Eng 117(3) 212-220 (Aug 1995), 5A859
Performance of new sandwich tube under axial loading: Experiment, J Struct Eng 121(12) 1806-1814 (Dec 1995), 6A501
Performance of new sandwich tube under axial loading: Analysis, J Struct Eng 121(12) 1815-1821 (Dec 1995), 6A502
Experimental investigation on low-temperature fatigue crack propagation in offshore structural steel A131 under random sea ice loading, Eng Fracture Mech 53(2) 231-237 (Jan 1996), 6A596
Hysteretic modeling of tubular members and offshore platforms, Eng Struct 18(2) 93-101 (Feb 1996), 6A775
Development of an accurate model for the fatigue assessment of doubly curved cracks in tubular joints, Int J Fracture 73(2) 129-148 (1995), 7A775
Implications of tendon modeling on nonlinear response of TLP, J Struct Eng 122(2) 142-149 (Feb 1996), 7A973
Nonlinear dynamics of an articulated tower in the ocean, J Sound Vib 190(1) 77-103 (Feb 1996), 7A974
Overlapped K joints in circular hollow sections under axial loading: An investigation of the factors affecting the static strength using numerical modeling, J Offshore Mech Arctic Eng 118(1) 53-61 (Feb 1996), 8A770
Current issues and technologies for the reassessment of existing offshore installations, Proc Inst Mech Eng E 210(E1) 39-43 (1996), 9A955
Response statistics of ocean structures to nonlinear hydrodynamic loading - Part II: Non-Gaussian ocean waves, J Sound Vib 191(1) 107-128 (Mar 1996), 9A956
Seadown of a catenary-moored gravity platform, Marine Struct 9(7) 721-742 (Aug 1996), 9A957

Stress concentrations of K tubular joints subjected to basic and combined loadings, Proc Inst Civl Eng Struct Build 116(1) 19-28 (Feb 1996), 9A958
Stochastic response of offshore structures excited by drag forces, J Eng Mech 122(5) 442-448 (May 1996), 10A939
Dynamics of an articulated cylinder in annular flow via nonlinear and partially-linearized versions of an analytical model, J Sound Vib 192(3) 645-668 (May 1996), 11A222
Hydrodynamic coefficients for calculation of hydrodynamic loads on offshore truss structures, Marine Struct 9(8) 745-758 (1996), 11A223
Large reinforced concrete cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 163-173 (May 1996), 11A757
Large steel-concrete composite cylinders under external pressure, Proc Inst Civl Eng Struct Build 116(2) 174-185 (May 1996), 11A758
Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, Eng Struct 18(9) 675-684 (Sep 1996), 12A262
Measurements from the Emerald instrumented flexible riser, Eng Struct 18(8) 615-627 (Aug 1996), 12A856
Three-dimensional nonlinear FE model for the Molikpaq, Gulf's mobile caisson, Comput Struct 60(4) 541-560 (Jun 1996), 12A857

286E. Offshore, mobile

Transient behavior of towed marine cables in two dimensions, Appl Ocean Res 17(3) 143-153 (1995), 7A975
Hydrodynamic behavior of long floating structures in directional seas, Appl Ocean Res 17(4) 233-243 (1995), 9A321

286F. Underwater structures and habitats

Special issue on jack-ups, Marine Struct 9(1) 3-148 (1995), 2A790
Submarine flows studied by second-moment closure, J Eng Mech 121(10) 1136-1146 (Oct 1995), 2A791
Hydrostatically Loaded Structures: The Structural Mechanics, Analysis, and Design of Powered Submersibles (Pergamon, Tarrytown, NY, 1995) 3R19
Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), J Vib Eng 8(3) 258-263 (Sep 1995), 4A323
Dynamics of deep-sea cable system (Russian), Prikl Mekh (Appl Mech) 31(4) 65-73 (1995), 7T599
Transient behavior of marine cables being laid: The 2D problem, Appl Ocean Res 17(4) 245-258 (1995), 9A959
Probabilistic approach to the lengths of free pipeline spans, Appl Ocean Res 17(4) 225-232 (1995), 9A1427

288. STRUCTURES (MOBILE)

288B. Ground vehicles (incl tires)

Nonstationary random response of a vehicle with a varying structure, Int J Vehicle Des 16(6) 531-541 (1995), 2A284
Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, J Terramech 32(1) 43-51 (Jan 1995), 2A792
Soil parameters for estimating the rolling resistance of earthmoving plant on a compacted silty cohesive soil, J Terramech 32(1) 27-41 (Jan 1995), 2A793
Study of the pressure distribution on an aircraft tire-wheel interface, J Aircraft 32(5) 921-928 (Oct 1995), 2A794
Human-Powered Vehicles (Human Kinetics, IL, 1995) 3R18
Statistical norms for off-road wheeled vehicle parameters, Heavy Vehicle Syst 2(2) 124-142 (1995), 3A162
Design of optimal four-wheel steering system, Vehicle Syst Dyn 24(9) 661-682 (Oct 1995), 3A363
Vehicle weight reduction obtained with lightweight materials, JSME Int J Ser A 38(4) 487-493 (Oct 1995), 3A817
Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N14
Rail Transportation, RTD-Vol 10 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N18
Design of an active unilateral brake control system for five-axle tractor-semitrailer based on sensitivity analysis, Vehicle Syst Dyn 24(10) 725-758 (Dec 1995), 4A371
Automatic field machine technology, J Terramech 32(2) 79-90 (Mar 1995), 5A734
Dynamic characteristics of on road and off road 4WD vehicles, European J Mech Eng 40(4) 197-202 (1995), 6A776
Unsteady-motion theory of magnetic forces for maglev systems, J Sound Vib 188(4) 529-543 (Dec 1995), 6A777
Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, JSME Int J Ser C 38(4) 772-777 (Dec 1995), 6A844
Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, JSME Int J Ser C 38(4) 778-782 (Dec 1995), 6A845
Movement stability of transport vehicles with regard for vibrations of control wheel module (Russian), Prikl Mekh (Appl Mech) 31(4) 86-93 (1995), 7A96
Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, Vehicle Syst Dyn 25(1) 31-49 (Jan 1996), 7A199
Directional stability of vehicle trailer systems, Heavy Vehicle Syst 2(3-4) 285-307 (1995), 7A398
Operating efficiency of heavy vehicles, Heavy Vehicle Syst 2(3-4) 256-269 (1995), 7T403
Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, Heavy Vehicle Syst 2(3-4) 270-284 (1995), 7A409
Investigation of the loads on truck cabin aerodynamic devices, Heavy Vehicle Syst 2(3-4) 208-224 (1995), 7A976
Road surface correction of tire test data, Vehicle Syst Dyn 25(2) 147-165 (Feb 1996), 7A977
Vertical load-deflection behavior of a pneumatic tire subjected to slip and camber angles, Vehicle Syst Dyn 25(2) 137-146 (Feb 1996), 7A978
Volvo's environmental concept truck and bus, Heavy Vehicle Syst 2(3-4) 323-324 (1995), 7T979
Wide base radial truck tires: Properties and performance, Heavy Vehicle Syst 2(3-4) 187-207 (1995), 7A980
Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, Heavy Vehicle Syst 2(3-4) 308-322 (1995), 7T1316
Analysis of the vibration-excitation effect caused by deformable soil surfaces, J Terramech 32(3) 151-163 (May 1995), 8A771
Application of artificial neural networks to skidder traction performance, J Terramech 32(3) 105-114 (May 1995), 8A772
Assessment of tracked vehicle suspension system using a validated computer simulation model, J Terramech 32(3) 127-149 (May 1995), 8A773
Characteristics of soil reactions of an open lugged wheel under paddy soil conditions, J Terramech 32(3) 115-125 (May 1995), 8A774
Finite element analysis applied to radial aircraft tire engineering, Proc Inst Mech Eng J Aerospace Eng 210(G1) 109-116 (1996), 8A775
Nonlinear dynamics of unidirectional, fiber-reinforced tori, J Eng Mech 122(3) 271-276 (Mar 1996), 8A776
Testing system for measuring tire impression stress distribution (Chinese), J Dalian Univ Tech 35(3) 348-351 (Jun 1995), 8A777
Kinematic design of differential devices for full time four-wheel-drive vehicles, Int J Vehicle Des 17(2) 182-197 (1996), 8A823
Vehicle cornering characteristics in acceleration and braking through attitude control of front and rear tires, JSME Int J Ser C 39(1) 58-66 (Mar 1996), 9A432
Application of topological optimization techniques to structural crashworthiness, Int J Numer Methods Eng 39(8) 1383-1403 (Apr 1996), 10A940
Model reduction procedure for the dynamic analysis of rail vehicles subjected to linear creep forces, Vehicle Syst Dyn 25(5) 349-367 (May 1996), 11A146
Development of anti-lock braking traction and control systems of the Advanced Technology Demonstrator II using DADS simulation code, Int J Vehicle Des 17(3) 295-317 (1996), 11A324
Twenty first century transportation system solutions: A new type of small, relatively tall and narrow active tilting commuter vehicle, Vehicle Syst Dyn 25(5) 321-347 (May 1996), 11A337
On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, Mech Syst Signal Processing 10(2) 135-154 (Mar 1996), 11A342
On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, Mech Syst Signal Processing 10(2) 155-169 (Mar 1996), 11A343
Reduction technique for tire contact problems, Comput Struct 60(2) 223-233 (Jul 1996), 11A787
Fifth international workshop on tracked transit system noise, 1995: A summary of conclusions, J Sound Vib 193(1) 3-452 (May 1996), 12A201

288C. Ships, submarines

Fatigue damage in the side shells of ships, Marine Struct 8(6) 631-655 (1995), 2A602
Two-phase FE comparative study of a side structure of a middle size tanker, Marine Struct 9(2) 151-179 (1995), 3A818
Structural failures of bulk carriers, Proc Inst Mech Eng E 209(E2) 83-91 (1995), 4A826
Return periods and encounter probabilities, Appl Ocean Res 17(2) 127-136 (1995), 5A1339
Study on the optimum structural design of surface effect ships, Marine Struct 9(5) 519-544 (1996), 6A726
Reliability methods for ship structural design, Marine Struct 9(3-4) 287-518 (1996), 6A737
Mixed-strategy guidance in future ship defense, J Guidance Control Dyn 19(2) 334-339 (Apr 1996), 8A317
Dynamic loss of stability in depth control of submersible vehicles, Appl Ocean Res 17(4) 205-216 (1995), 9A960
Estimation of nonlinear damping coefficients from large-amplitude ship rolling motions., Appl Ocean Res 17(4) 217-224 (1995), 9A961
Non-stationary responses of a nonlinearly coupled pitch-roll ship model under modulated excitation, J Sound Vib 192(3) 669-699 (May 1996), 11A93
Probabilistic prediction of extreme stress and fatigue damage for ships in slamming conditions, Marine Struct 9(8) 759-785 (1996), 11A788
Stochastic and deterministic combinations of still water and wave bending moments in ships, Marine Struct 9(8) 787-810 (1996), 11A789
Large-scale grounding experiments and numerical simulations, Ship Tech Res 43(2) 62-69 (May 1996), 12A858
Semi-empirical evaluation of long term ice loads on a ship hull, Marine Struct 9(9) 849-871 (1996), 12A859

288E. Airplanes

Neural network approach to fatigue-crack-growth predictions under aircraft spectrum loadings, J Aircraft 32(4) 825-831 (Aug 1995), 1A837
Design analysis methodology for solar-powered aircraft, J Aircraft 32(4) 703-709 (Aug 1995), 1A919
De-Dopplerization of aircraft acoustic signals, J Aircraft 32(5) 1012-1017 (Oct 1995), 2A209
Airworthiness of composite repairs: Failure mechanisms, Eng Failure Anal 2(2) 117-128 (Jun 1995), 2A443
Study of the pressure distribution on an aircraft tire-wheel interface, J Aircraft 32(5) 921-928 (Oct 1995), 2A794
Application of an artificial neural network as a flight test data estimator, J Aircraft 32(5) 1088-1094 (Oct 1995), 2A795
Benefits of operational load monitoring in civil transport aircraft, Proc Inst Mech Eng J Aerospace Eng 209(G3) 171-176 (1995), 2A796
Probabilistic approach to safety - success or failure, Proc Inst Mech Eng J Aerospace Eng 209(G3) 177-183 (1995), 2A797
Superplastic forming and diffusion bonding of aircraft structures, Proc Inst Mech Eng J Aerospace Eng 209(G3) 227-231 (1995), 2A798
D-box fixture for testing stiffened panels in compression and pressure, J Aircraft 32(6) 1382-1389 (Dec 1995), 5A735
Efficient parametrization of generic aircraft geometry, J Aircraft 32(6) 1269-1275 (Dec 1995), 5A736
Response statistics of moored offshore structures, J Offshore Mech Arctic Eng 117(3) 159-165 (Aug 1995), 5A986
Optimal excitation for aircraft flutter testing, Proc Inst Mech Eng J Aerospace Eng 209(G4) 313-325 (1995), 6A221
Double pass retroreflection for corrosion detection in aircraft structures, Mat Eval 54(1) 80-86 (Jan 1996), 6A694
Application of level II reliability theory, Proc Inst Mech Eng J Aerospace Eng 209(G4) 291-298 (1995), 6A733
Advanced system concepts for future civil aircraft: An overview of avionic architectures, Proc Inst Mech Eng J Aerospace Eng 209(G4) 265-272 (1995), 6A778
Design object model and design process model of computer aided aircraft conceptual design system, Chinese J Aeronaut 8(3) 198-204 (Aug 1995), 7A375
Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, Shock Vib 3(2) 135-140 (1996), 7A880
Evolution of flight vehicle system identification, J Aircraft 33(1) 9-28 (Feb 1996), 7A981
Fatigue of composite materials under aircraft service loading, Proc Inst Mech Eng J Aerospace Eng 210(G1) 101-107 (1996), 8A584
Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, Eng Fracture Mech 53(5) 789-805 (Mar 1996), 8A602
Experimental determination of stress intensity factors of cracks in sheet structures with bolted stiffeners, Eng Fracture Mech 53(4) 561-569 (Mar 1996), 8A623
Civil airframe structural integrity: Some probabilistic aspects of risk assessment, Proc Inst Mech Eng J Aerospace Eng 210(G1) 19-25 (1996), 8A732
Experimental methods of simulating parameters of elastically attached loads when testing dynamically similar model of airplane, Russian Aeronaut 38(2) 83-85 (1995), 8A764
Finite element analysis applied to radial aircraft tire engineering, Proc Inst Mech Eng J Aerospace Eng 210(G1) 109-116 (1996), 8A775
Development of plate analogy for calculating strength of airfoils of surface effect vehicles, Russian Aeronaut 38(2) 11-15 (1995), 8A778
Aircraft concept optimization using parametric multiobjective figures of merit, J Aircraft 33(2) 444-445 (Apr 1996), 9T962
Physical programming design optimization for high speed civil transport, J Aircraft 33(2) 446-449 (Apr 1996), 9T963
Smoothing of dead reckoning image in distributed interactive simulation, J Aircraft 33(2) 450-452 (Apr 1996), 9T964
Contour design and practice for a low radar cross section vehicle, Chinese J Aeronaut 9(1) 43-47 (Feb 1996), 10T941
Use of fuel inertia for airplane vibration damping, Russian Aeronaut 38(3) 86-88 (1995), 11A101
Problem of information-measuring system reliability calculations, Russian Aeronaut 38(3) 8-11 (1995), 11A304
Damage tolerance and failure analysis of a composite geodesically stiffened compression panel, J Aircraft 33(3) 582-588 (Jun 1996), 11A790
Dynamics of flight vehicle control surfaces with inertia coupling, Mech Syst Signal Processing 10(2) 183-195 (Mar 1996), 11A791
Maintaining mature military air transport aircraft, Proc Inst Mech Eng J Aerospace Eng 210(G2) 129-134 (1996), 11A792
Prediction of aircraft wing mass, Proc Inst Mech Eng J Aerospace Eng 210(G2) 135-145 (1996), 11A793
Qualification of safety critical structures by FE analytical methods, Proc Inst Mech Eng J Aerospace Eng 210(G2) 203-207 (1996), 11A794
Sailplane carry-through structures made with composite materials, J Aircraft 33(3) 596-600 (Jun 1996), 11A795
Simultaneous optimization of sailplane design and its flight trajectory, J Aircraft 33(3) 567-571 (Jun 1996), 11A796
Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, J Aircraft 33(3) 608-616 (Jun 1996), 11A797

288F. Helicopters

Vibration reduction in rotorcraft using active control: A comparison of various approaches, J Guidance Control Dyn 18(4) 664-673 (Aug 1995), 1A415
Critical considerations for helicopters during runway takeoffs, J Aircraft 32(4) 773-781 (Aug 1995), 1A920
Advanced method for predicting the performance of helicopter propulsion system ejectors, J Am Helicopter Soc 40(3) 73-79 (Jul 1995), 1A924
Aeroelastic analysis of a composite bearingless rotor in forward flight using an improved warping model, J Am Helicopter Soc 40(3) 80-91 (Jul 1995), 1A1131
Computation of helicopter rotor acoustics in forward flight, J Am Helicopter Soc 40(3) 66-72 (Jul 1995), 1A1132
Model of the unsteady aerodynamics of a hovering helicopter rotor that includes variations of the wake geometry, J Am Helicopter Soc 40(3) 6-16 (Jul 1995), 1A1133
New model of rotor dynamics during pitch and roll of a hovering helicopter, J Am Helicopter Soc 40(3) 17-28 (Jul 1995), 1A1134
Performance based optimization of high speed prop-rotors, J Am Helicopter Soc 40(3) 92-100 (Jul 1995), 1A1135
Reduction of tiltrotor download, J Am Helicopter Soc 40(3) 42-51 (Jul 1995), 1A1136
Rotor free-wake modeling using a pseudo-implicit technique including comparisons with experimental data, J Am Helicopter Soc 40(3) 29-41 (Jul 1995), 1A1137
Wake of a small-scale rotor in forward flight using flow visualization, J Am Helicopter Soc 40(3) 52-65 (Jul 1995), 1A1140
Analytical and experimental investigation of the effect of mast-bending coupling on pylon stability, J Am Helicopter Soc 40(4) 90-100 (Oct 1995), 6A1034
Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, J Am Helicopter Soc 40(4) 3-17 (Oct 1995), 6A1035
Correlation of 2GCHAS analysis with experimental data, J Am Helicopter Soc 40(4) 18-33 (Oct 1995), 6A1036

Damping prediction for a stalled rotor in flap-lag with experimental correlation, J Am Helicopter Soc 40(4) 79-89 (Oct 1995), 6A1037
Influence of a tension load on laminates under torsion, J Am Helicopter Soc 40(4) 71-78 (Oct 1995), 6A1038
Prediction of tail rotor thrust and yaw control effectiveness, J Am Helicopter Soc 40(4) 34-43 (Oct 1995), 6A1040
Simulation of the dynamics of helicopter slug load systems, J Am Helicopter Soc 40(4) 44-61 (Oct 1995), 6A1041
Evaluation of a Navier-Stokes analysis method for hover performance prediction, J Am Helicopter Soc 41(1) 7-17 (Jan 1996), 7A982
Flight evaluation of the new handling qualities criteria using the BO 105, J Am Helicopter Soc 41(1) 67-76 (Jan 1996), 7A983
New ADS-33 process: Cautions for implementation, J Am Helicopter Soc 41(1) 3-7 (Jan 1996), 7A984
Advanced helicopter flight control using two-dof H^{∞} optimization, J Guidance Control Dyn 19(2) 461-468 (Apr 1996), 8A323
Application of smart structures technology to rotorcraft systems, Smart Mat Struct 5(1) 1-98 (Feb 1996), 8T324
Optimal vertical takeoff and landing helicopter operation in one engine failure, J Aircraft 33(2) 337-346 (Apr 1996), 9A965
Helicopter Flight Dynamics: The Theory and Application of Flying Qualities and Simulation Modeling (AIAA, MD, 1995) 11N30
Linear quadratic optimal model-following control of a helicopter in hover, Optimal Control Appl Methods 17(2) 123-140 (Jun 1996), 11A290
Development of an on-board fatigue processor for helicopters, Int J Fatigue 18(3) 179-189 (Apr 1996), 12A717

288G. Lighter than air devices

Practical design of an airship, J Aircraft 32(6) 1294-1296 (Dec 1995), 5A737
Proceedings of the Ninth International Conference on Vehicle Structural Mechanics and CAE (SAE, Warrendale PA, 1995) 12N30

288I. Space vehicles and satellites

Minimization of thermoelastic deformation in space structures undergoing periodic motion, J Spacecraft Rockets 32(4) 662-669 (Aug 1995), 1A272
Application of accelerated interative methods for solution of thermal models of spacecraft, J Spacecraft Rockets 32(4) 608-611 (Aug 1995), 1A921
Robotic assembly of truss beams for large space structures, J Spacecraft Rockets 32(4) 680-685 (Aug 1995), 1A922
Verification tests of automated robotic assembly of space truss structures, J Spacecraft Rockets 32(4) 686-696 (Aug 1995), 1A923
Rapid method for spacecraft sizing, Proc Inst Mech Eng J Aerospace Eng 209(G3) 165-169 (1995), 2A799
Simplified design method for braced double-skinned structure in lunar application, J Aerospace Eng 8(4) 189-195 (Oct 1995), 2A800
Modeling and fuzzy logic control of an active reaction compensating platform system, Shock Vib 2(6) 493-506 (1995), 3A819
Stability and Optimization of Flexible Space Structures (Birkhauser, Switzerland, 1995) 4R12
Joint operations planning for the midcourse space experiment satellite, J Spacecraft Rockets 32(5) 812-816 (Oct 1995), 5A237
Stellar alignment of the high resolution Doppler image, J Spacecraft Rockets 32(6) 1039-1043 (Dec 1995), 5A242
Integrated controls-structures design methodology for flexible spacecraft, J Spacecraft Rockets 32(5) 839-844 (Oct 1995), 5A243
Simulation and Shuttle Hitchhiker validation of Passive Satellite Aerostabilization, J Spacecraft Rockets 32(5) 806-811 (Oct 1995), 5A244
Contamination and space environmental effects on solar cells and thermal control surfaces, J Spacecraft Rockets 32(5) 850-855 (Oct 1995), 5A246
Effect of atmospheric processes on launch decisions, J Spacecraft Rockets 32(5) 801-805 (Oct 1995), 5A248
Ionosphere ionization effects on sheath structure around a high-voltage spacecraft, J Spacecraft Rockets 32(6) 1018-1026 (Dec 1995), 5A251
Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, J Spacecraft Rockets 32(6) 1015-1017 (Dec 1995), 5A252
Aerothermodynamic measurement and prediction for modified orbiter at Mach 6 and 10, J Spacecraft Rockets 32(5) 737-748 (Oct 1995), 5A717
Wake flow about the Mars Pathfinder entry vehicle, J Spacecraft Rockets 32(5) 771-776 (Oct 1995), 5A721
Analysis of close-packed brush-fiber interfaces for spacecraft thermal management, J Spacecraft Rockets 32(5) 845-849 (Oct 1995), 5A738
Charged-particle telescope experiment on Clementine, J Spacecraft Rockets 32(6) 1060-1064 (Dec 1995), 5A739
Clementine attitude determination and control system, J Spacecraft Rockets 32(6) 1054-1059 (Dec 1995), 5A740
Clementine dosimetry, J Spacecraft Rockets 32(6) 1065-1070 (Dec 1995), 5A741
Clementine engineering experiments program, J Spacecraft Rockets 32(6) 1045-1048 (Dec 1995), 5A742
Depolyment mechanism for a large reflector: Thermal-design verification using flight data, J Spacecraft Rockets 32(5) 890-893 (Oct 1995), 5A743
Estimates of the Clementine interstage adapter satellite tumbler rate, J Spacecraft Rockets 32(6) 1077-1078 (Dec 1995), 5T744
Experimental and computational analysis of shuttle orbiter hypersonic trim anomaly, J Spacecraft Rockets 32(5) 758-764 (Oct 1995), 5A745
Gravity anchoring for passive spacecraft damping, J Spacecraft Rockets 32(5) 925-927 (Oct 1995), 5T746
In-orbit mission reconfiguration for Italsat system, J Spacecraft Rockets 32(6) 1027-1032 (Dec 1995), 5A747
Large retractable appendages in spacecraft, J Spacecraft Rockets 32(6) 1006-1014 (Dec 1995), 5A748
Near-optimal propulsion-system operation for an air-breathing launch vehicle, J Spacecraft Rockets 32(6) 951-956 (Dec 1995), 5A749
On-orbit temperature distribution of a submillimeter-telescope primary-reflector panel, J Spacecraft Rockets 32(5) 885-889 (Oct 1995), 5A750
Probabilistic response of truss-type space structure with joint and member imperfections, J Spacecraft Rockets 32(5) 870-877 (Oct 1995), 5A751
Single-event upset effects on the Clementine solid-state data recorder, J Spacecraft Rockets 32(6) 1071-1076 (Dec 1995), 5A752
Space experiment on plasma interaction caused by high-voltage photovoltaic power generation, J Spacecraft Rockets 32(5) 894-898 (Oct 1995), 5A753
Spacecraft autonomous operations experiment performed during the Clementine lunar mission, J Spacecraft Rockets 32(6) 1049-1053 (Dec 1995), 5A754
Spacecraft expected-cost analysis with k-out-of-n:G subsystems, J Spacecraft Rockets 32(5) 927-928 (Oct 1995), 5T755
Static shape control of space trusses with partial measurements, J Spacecraft Rockets 32(5) 856-865 (Oct 1995), 5A756
Thermo-optical property degradation of irradiated spacecraft surfaces, J Spacecraft Rockets 32(5) 832-838 (Oct 1995), 5A757
Microgravity isolation system design: A modern control synthesis framework, J Spacecraft Rockets 33(1) 101-109 (Feb 1996), 7A213
Microgravity isolation system design: A modern control analysis framework, J Spacecraft Rockets 33(1) 110-119 (Feb 1996), 7A214
Microgravity isolation system design: A case study, J Spacecraft Rockets 33(1) 120-125 (Feb 1996), 7A215
Moving-mass roll control system for fixed-trim re-entry vehicle, J Spacecraft Rockets 33(1) 54-60 (Feb 1996), 7A402
Aerothermal study of Mars Pathfinder aeroshell, J Spacecraft Rockets 33(1) 61-69 (Feb 1996), 7A985
Analysis of the Solwind fragmentation event using theory and computations, J Spacecraft Rockets 33(1) 79-85 (Feb 1996), 7A986
Arcjet development for amateur radio satellite, J Spacecraft Rockets 33(1) 86-91 (Feb 1996), 7A987
Atmospheric research with the small expendable deployer system: Preliminary analysis, J Spacecraft Rockets 33(1) 70-78 (Feb 1996), 7A988
Comparative analysis of reusable space transportation systems, J Machinery Manuf Reliab 4 1-8 (1995), 7T989
Spacecraft interaction with atmospheric species in low Earth orbit, J Spacecraft Rockets 33(1) 131-136 (Feb 1996), 7A990
Three-dimensional computational analysis of complex launch vehicle configurations, J Spacecraft Rockets 33(1) 49-53 (Feb 1996), 7A991
US and Russian thermal control coating results in low Earth orbit, J Spacecraft Rockets 33(1) 160-166 (Feb 1996), 7A992
System optimization of ablative pulsed plasma thrusters for stationkeeping, J Spacecraft Rockets 33(1) 96-100 (Feb 1996), 7A1346
Composite sandwich-structure optimization with application to satellite components, AIAA J 34(3) 614-621 (Mar 1996), 8A708
Global stability of a shielded dual-spin satellite, Proc Inst Mech Eng J Aerospace Eng 210(G1) 53-63 (1996), 8A779
Active cooling of a hypersonic plane using hydrogen, methane, oxygen and fluorine, Proc Inst Mech Eng J Aerospace Eng 210(G1) 9-17 (1996), 8A1006
Flap efficiency and heating of a winged re-entry vehicle, J Spacecraft Rockets 33(2) 178-184 (Apr 1996), 10A316
Phugoid motion for grazing-entry trajectories at near-circular speeds, J Spacecraft Rockets 33(2) 206-213 (Apr 1996), 10A327
Space-debris identification using optical calibration of common spacecraft materials, J Spacecraft Rockets 33(2) 262-266 (Apr 1996), 10A331
Decomposition algorithm for performance optimization of a launch vehicle, J Spacecraft Rockets 33(2) 214-221 (Apr 1996), 10A942
Design of large systems for packaging and launch on multiple, heterogeneous vehicles, J Aerospace Eng 9(2) 45-51 (Apr 1996), 10A943
Dynamic influence of flexible payloads on space shuttle RMS, J Aerospace Eng 9(2) 39-44 (Apr 1996), 10A944
Experimental validation of particle model drift theories, J Spacecraft Rockets 33(2) 250-254 (Apr 1996), 10A945
Ground modal tests of space-structure components using boundary masses, J Spacecraft Rockets 33(2) 272-277 (Apr 1996), 10A946
In-orbit deployment performance of large satellite antennas, J Spacecraft Rockets 33(2) 222-227 (Apr 1996), 10A947
Investigation of space launch vehicle catastrophic failures, J Spacecraft Rockets 33(2) 198-205 (Apr 1996), 10A948
Low-frequency waves in the plasma environment around the shuttle, J Spacecraft Rockets 33(2) 255-261 (Apr 1996), 10A949
Parametric and classical resonance in passive satellite aerostabilization, J Spacecraft Rockets 33(2) 228-234 (Apr 1996), 10A950
Russian RD-704 for single-stage vehicles, J Spacecraft Rockets 33(2) 309-311 (Apr 1996), 10T951
Vehicle glow measurements on space transportation system flight 62, J Spacecraft Rockets 33(2) 240-249 (Apr 1996), 10A1114
Microencapsulated phase-change material suspensions for heat transfer in spacecraft thermal systems, J Spacecraft Rockets 33(2) 278-284 (Apr 1996), 10A1309
Electric-propulsion spacecraft optimization for lunar missions, J Spacecraft Rockets 33(2) 235-239 (Apr 1996), 10A1405
Launch vehicle acoustics - Part 1: Overall levels and spectral characteristics, J Aircraft 33(3) 511-517 (Jun 1996), 11A798
Launch vehicle acoustics - Part 2: Statistics of the time domain data, J Aircraft 33(3) 518-523 (Jun 1996), 11A799
Mass-diameter and characteristic-length ratio functions for orbital debris, J Spacecraft Rockets 33(3) 433-437 (Jun 1996), 12A270
Satellite active and passive vibration control during liftoff, J Spacecraft Rockets 33(3) 428-432 (Jun 1996), 12A415
Multicriterion preliminary design of a tetrahedral truss platform, J Spacecraft Rockets 33(3) 410-415 (Jun 1996), 12A815
Combining genetic and deterministic algorithms for locating actuators on space structures, J Spacecraft Rockets 33(3) 422-427 (Jun 1996), 12A860
Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, J Spacecraft Rockets 33(3) 319-325 (Jun 1996), 12A861
Data analysis and model comparison for solar array module plasma interactions experiment, J Spacecraft Rockets 33(3) 438-446 (Jun 1996), 12A862
Dynamic continuum modeling of truss-type space structures using spectral elements, J Spacecraft Rockets 33(3) 404-409 (Jun 1996), 12A863
Experimental investigation of side-jet steering for supersonic and hypersonic missiles, J Spacecraft Rockets 33(3) 346-352 (Jun 1996), 12A864
Experimental verification of interference-free testing concept for vehicles with propulsive jets, J Spacecraft Rockets 33(3) 339-345 (Jun 1996), 12A865
Mars sample return: A direct and minimum-risk design, J Spacecraft Rockets 33(3) 381-385 (Jun 1996), 12A866
Numerical investigation of laminar-turbulent transition on re-entry capsules, J Spacecraft Rockets 33(3) 313-318 (Jun 1996), 12A867
Reevaluation of flight-derived surface recombination-rate expressions for oxygen and nitrogen, J Spacecraft Rockets 33(3) 451-453 (Jun 1996), 12T868
Two-dimensional deployable hexapod truss, J Spacecraft Rockets 33(3) 416-421 (Jun 1996), 12A869

288J. Deployable structures

Advanced method for predicting the performance of helicopter propulsion system ejectors, J Am Helicopter Soc 40(3) 73-79 (Jul 1995), 1A924
Stable cross-type parachute with inflation aid, J Aircraft 32(4) 894-896 (Aug 1995), 1T925
Center of gravity and minimal lift coefficient limits of a gliding parachute, J Aircraft 32(6) 1297-1302 (Dec 1995), 5A758
Cable-stiffened pantographic deployable structures - Part 1: Triangular mast, AIAA J 34(4) 813-820 (Apr 1996), 9A966
Folding of triangulated cylinders - Part III: Experiments, J Appl Mech 63(1) 77-83 (Mar 1996), 9A967
Parachute aerodynamics: An assessment of prediction capability, J Aircraft 33(2) 241-252 (Apr 1996), 9A968
Parabolic pantographic depioyable antenna, Int J Space Struct 10(4) 195-203 (1995), 10A928
Shape formation of deployable metal domes, Int J Space Struct 10(4) 189-194 (1995), 10A931
In-orbit deployment performance of large satellite antennas, J Spacecraft Rockets 33(2) 222-227 (Apr 1996), 10A947
Multibody dynamics incorporating deployment of flexible structures, J Vib Acoust 118(2) 237-241 (Apr 1996), 10A952
Retractable spatial structures for swimming pool enclosures, Int J Space Struct 10(4) 231-236 (1995), 10A953

290. STRUCTURES (CONTAINMENT)

290B. Pressure vessels (reactor vessels, etc)

Numerical analysis of the elastic-plastic behavior of pressure vessels with ellipsoidal and torispherical heads, Int J Pressure Vessels Piping 65(2) 147-156 (1996), 1A926
Potential developments of pressure vessel technology by using thin inner core and flat steel ribbon winding techniques, Int J Pressure Vessels Piping 65(1) 1-5 (1996), 1A927
Strength and safety analysis of flat steel ribbon helically wound pressure vessel, Int J Pressure Vessels Piping 65(1) 7-11 (1996), 1A928
Developments in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N26
Fatigue and Fracture Mechanics in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N29
Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, Nucl Eng Des 159(1) 63-68 (Oct 1995), 3A1358
Remaining life analysis for a pressure vessel subjected to cyclic loads based on fracture mechanics, Int J Fatigue 17(7) 477-483 (Oct 1995), 4A703
Stress-intensity factors for an internal semi-elliptical surface crack in cylindrical pressure vessels, J Pressure Vessel Tech 117(3) 213-221 (Aug 1995), 5A625
Technique to distinguish the primary and secondary stresses, J Pressure Vessel Tech 117(3) 197-203 (Aug 1995), 5A759
Proof-test-based life prediction of high-toughness pressure vessels, J Pressure Vessel Tech 118(1) 86-94 (Feb 1996), 7A993
Use of stress-strength model in determination of safety factor for pressure vessel design, J Pressure Vessel Tech 118(1) 27-32 (Feb 1996), 7A994
Effect of pressure overload on fatigue crack growth in pressure vessels, Fatigue Fracture Eng Mat Struct 19(1) 1-13 (1996), 8A572
Fatigue life of an autofrettaged thick-walled pressure vessel with an external groove, Fatigue Fracture Eng Mat Struct 19(1) 15-25 (1996), 8A575
Elastoplastic stress and strain predictions for axisymmetric pressure-vessel bodies under transient thermal loads, J Strain Anal Eng Des 31(2) 81-89 (Mar 1996), 8A780
Radial loading of cylindrical vessels: Influence of attachment rigidity, Int J Pressure Vessels Piping 67(1) 65-79 (1996), 8A781
Stress measurement of titanium pressure vessels, Int J Pressure Vessels Piping 67(1) 41-44 (1996), 8A782
Plastic limit pressures for neighboring radial nozzles in a spherical pressure vessel, Proc Inst Mech Eng E 210(E1) 75-78 (1996), 9A969
Stress analysis of two-arc approximate ellipsoidal pressure vessel heads and parameter optimization, Int J Pressure Vessels Piping 67(2) 199-202 (Jul 1996), 9A970

Support leg stress in pressure vessels mounted on arbitrary legs subjected to lateral loadings, Int J Pressure Vessels Piping 68(1) 13-22 (1996), 10A954
Geometry free of singularities for fusion duplex components, Fusion Eng Des 31(1) 17-27 (Apr 1996), 11T800
Effect of the hydrobulging process on mechanical properties of spherical pressure vessels, Int J Machine Tools Manuf 36(7) 829-834 (Jul 1996), 12A870
Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, Fusion Eng Des 31(2) 145-165 (Jun 1996), 12T871

290C. Boilers

Primary stress in scarred boiler tubes, Int J Pressure Vessels Piping 65(2) 157-161 (1996), 1A929
Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, JSME Int J Ser C 39(1) 137-143 (Mar 1996), 9A215
Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, JSME Int J Ser C 39(1) 130-136 (Mar 1996), 9A1016

290D. Heat exchangers

Feedback linearization of a heat exchanger, Syst Control Lett 26(3) 203-209 (Oct 1995), 3A384
Investigation on the present situation in life prediction of heat exchanger - Activity report of the working group: Life prediction of heat exchanger (Japanese), J Soc Mat Sci Japan 44(506) 1344-1348 (Nov 1995), 6T779
Characteristic line based method to build finite-dimensional models of heat exchangers, Math Model Syst 1(3) 141-166 (Oct 1995), 11A339

290E. Composite vessels

Composites for the Pressure Vessel Industry - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 1N21
Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, Int J Mech Sci 38(1) 97-120 (Jan 1995), 4A494
Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, Mat Eval 54(6) 744-748 (Jun 1996), 11A708

290F. Wirewound vessels

Progressive failure analysis for filament wound pressure vessel, J Reinforced Plastics Composites 14(12) 1278-1306 (Dec 1995), 5A760

290G. Reinforced concrete vessels

Theoretical and experimental study of U-shaped trough shell of aqueduct, Asian J Struct Eng 1(2) 197-207 (1995), 2A477
Effect of restraint of walls on deformation of cylindrical tanks (Polish), Inzynieria Budownictwo 52(12) 675-679 (1995), 6A780
Calculation method for design shear capacity for slurry wall member with joint (Japanese), Proc JSCE 532(V-30) 29-39 (Feb 1996), 9A305

290H. Vessels under external pressure

Radial loading of cylindrical vessels: Influence of large displacements, Int J Pressure Vessels Piping 67(1) 81-94 (1996), 8A493
Collapse of dented cylinders under external pressure, Int J Mech Sci 38(5) 557-578 (May 1996), 8A503
Buckling of filament-wound cylindrical vessels subjected to external pressure, J Pressure Vessel Tech 118(2) 216-220 (May 1996), 10A631

290I. Piping

Leak-before-break: Estimating the leakage area associated with a through-wall circumferential crack in a steel piping system, Int J Pressure Vessels Piping 65(2) 141-145 (1996), 1A782
Ductile fracture of a pipe with a part-through slot, Int J Pressure Vessels Piping 65(2) 171-179 (1996), 1A791
Developments in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N26
Fatigue and Fracture Mechanics in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N29
Thermal mechanical, materials, and structural aspects of nuclear fission energy, Nucl Eng Des 158(2-3) 167-435 (Sep 1995), 2A1271
Experimental and theoretical studies in subsea pipeline buckling, Marine Struct 9(2) 211-257 (1995), 3A558
Procedure for analysis of leak before break in pipes subjected to fatigue or IGSCC accounting for complex crack shapes, Fatigue Fracture Eng Mat Struct 18(10) 1173-1188 (Oct 1995), 3A657
Stress intensity factors for circumferential surface cracks in pipes, Fatigue Fracture Eng Mat Struct 18(10) 1155-1172 (Oct 1995), 3A683
Determination of limits for smallest detectable and largest subcritical leakage cracks in piping systems, Nucl Eng Des 159(1) 29-42 (Oct 1995), 3A1359
Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), Proc JSCE 525(I-33) 139-152 (Oct 1995), 5A126
Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, J Pressure Vessel Tech 117(3) 227-237 (Aug 1995), 5A611
Stochastic response of piping systems with flexible supports, J Pressure Vessel Tech 118(1) 109-114 (Feb 1996), 7A143
Qualification of diesel generator exhaust carbon steel piping to intermittent elevated temperatures, J Pressure Vessel Tech 118(1) 42-47 (Feb 1996), 7A995
Study on buckling of offshore pipelines, J Offshore Mech Arctic Eng 118(1) 62-70 (Feb 1996), 8A517
Behavior of longitudinally aligned corrosion pits, Int J Pressure Vessels Piping 67(1) 17-35 (1996), 8A594
Saddle-supported pipelines: Influence of unilateral support and thickness on the stress state, Int J Pressure Vessels Piping 67(1) 55-64 (1996), 8A783
Linear and nonlinear FE analyses of pipe bends, Int J Pressure Vessels Piping 67(2) 211-217 (Jul 1996), 9A33
Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, Acta Mech Solida Sinica 9(1) 88-93 (1996), 9A444
Burst pressures of pipes containing dents and gouges, Proc Inst Mech Eng E 210(E1) 19-27 (1996), 9A971
Strain concentrations in pressurized dented pipes, Proc Inst Mech Eng E 210(E1) 29-38 (1996), 9A972
Onset of ratcheting in pressurized piping elbows subjected to in-plane bending moments, Int J Pressure Vessels Piping 68(1) 73-79 (1996), 10A547
COD of off-centered cracks in pipes under bending load: A geometrical solution, Int J Fracture 75(1) 1-18 (1995), 10A780
Shocks detection in a piping system network (French), Rev Francaise Mec 0(1) 13-20 (1996), 11A164
Application of a kinematic hardening model for assessing ratchetting in pressurized pipes, Nucl Eng Des 162(1) 67-73 (Mar 1996), 11A451
Vibration of ring-stiffened circular cylinders under external water pressure, Comput Struct 60(6) 1013-1019 (Jul 1996), 12A177
Fracture analysis for pipes containing a finite-length axial part-through crack, Int J Pressure Vessels Piping 68(2) 127-133 (1996), 12A744
Effect of liquid filling in saddle-supported pipelines, Int J Pressure Vessels Piping 68(2) 219-228 (1996), 12A872
Strength of a hot tap reinforced Tee junction, Int J Pressure Vessels Piping 68(2) 169-180 (1996), 12A873

290J. Pressurized components

Frame tripping in ring stiffened externally pressurized cylinders, Marine Struct 9(6) 585-608 (1996), 7A632
Creep damage simulation of thick-walled tubes using the θ projection concept, Int J Pressure Vessels Piping 67(1) 105-111 (1996), 8A406
Response and cyclic strain accumulation of pressurized piping elbows under dynamic out-of-plane bending, J Strain Anal Eng Des 31(2) 153-166 (Mar 1996), 8A433
Extended and updated selected papers from ENS TOPNUX '93, Hague, Netherlands, April 25-28, 1993, Nucl Eng Des 160(1-2) 1-268 (Feb 1996), 8T1376
Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, Int J Pressure Vessels Piping 67(2) 219-226 (Jul 1996), 9A521
Approximate expression of K_{Imax} for sphere-nozzle corner cracks, Int J Pressure Vessels Piping 67(3) 273-278 (1996), 10A770
Determination of the gasket load drop at large-size welding neck flange joints in the case of nonlinear gasket model, Int J Pressure Vessels Piping 67(3) 243-248 (1996), 10A955
Robust stress-classification of pressure components using the GLOSS and GLOSS r-node methods, J Pressure Vessel Tech 118(2) 208-215 (May 1996), 10A956
Pressure control by proportional pressure valve (Polish), Strojnicky Casopis 47(1) 12-19 (1996), 11A801

290K. Containers (tanks, silos, bins, bunkers, etc)

Density jump variation in the initial stage of the gravity flow of granular materials, Arch Mech 47(2) 405-413 (1995), 1A10
Empirical stochastic silo load model - I: Correlation theory, J Eng Mech 121(9) 973-980 (Sep 1995), 1A930
Empirical stochastic silo load model - II: Data analysis, J Eng Mech 121(9) 981-986 (Sep 1995), 1A931
Empirical stochastic silo load model - III: Reliability applications, J Eng Mech 121(9) 987-993 (Sep 1995), 1A932
Principles of design analysis of cylindrical prefabricated tanks prestressed by expanding concrete, Inzynieria Budownictwo 52(12) 395-398 (7-8 1995), 1A933
Solar heat influence on distribution of stresses in RC rectangular tanks, Inzynieria Budownictwo 52(12) 406-409 (7-8 1995), 1A934
Determining limit states of ARC sewage tank subjected to imposed strains and external loads, Arch Civil Eng 41(3) 433-445 (1995), 3A820
Finite deformation analysis of motion of granular material in a silo, Arch Mech 47(3) 617-633 (1995), 3A1251
Rigorous statistical technique for inferring circular silo wall pressures from wall strain measurements, Eng Struct 18(4) 321-331 (Apr 1996), 8A784
Static and dynamic analysis of rectangular tanks by using the Lagrangian fluid FE, Comput Struct 59(3) 547-552 (May 1996), 8A785
Soft layer to control soil arching above a buried structure, Eng Struct 18(5) 378-386 (May 1996), 9A680
Determining limit states of ARC sewage tank subjected to imposed strains and external loads, Arch Civil Eng 41(3) 433-445 (1995), 9A973
Finite element formulation for column-supported hyperboloid cooling towers, Comput Struct 59(5) 965-974 (Jun 1996), 9A974
Simplified method to determine the moment-curvature relationships of a damaged tubular segment, Eng Struct 18(5) 387-395 (May 1996), 9A975
Modeling distribution storage water quality: An analytical approach, Appl Math Model 20(4) 329-338 (Apr 1996), 9A1300
Modified Janssen theory for flexible circular bins, J Struct Eng 122(4) 454-456 (Apr 1996), 10A957

292. FRICTION AND WEAR

292A. General theory

Retired lecturer's presentation of the theory of friction first presented by Bowden and Tabor, Trib Int 28(1) 29-32 (Feb 1995), 1T935
Self-healing slip pulse on a frictional surface, J Mech Phys Solids 43(9) 1461-1495 (Sep 1995), 1A1402
Uniqueness of the smooth solution in the static problem with a Coulomb law of friction and two-sided contact, J Appl Math Mech 59(2) 311-315 (1995), 2A801
Stochastic contact model of rough frictional heating surfaces in mixed friction conditions, Wear 188(1-2) 49-55 (Sep 1995), 3A821
Dynamic behavior of tilting-pad journal bearings, Proc Inst Mech Eng J: Eng Trib 209(J4) 275-285 (1995), 4A853
Dissipative self-orginization of rubbing surfaces in tribosystems, J Friction Wear 16(1) 41-48 (1995), 5A761
Numerical simulation of head-disk impacts during dynamic loading processes, J Trib 117(4) 602-606 (Oct 1995), 5A762
Numerical simulations of slider interaction with multiple asperity using Hertzian contact model, J Trib 117(4) 575-579 (Oct 1995), 5A763
Possibility of external-friction study using variational methods of non-equilibrium thermodynamics, J Friction Wear 16(1) 79-84 (1995), 5A764
Surface characterization in friction and wear (Japanese), J Japan Soc Precision Eng 61(11) 1541-1544 (Nov 1995), 5T765
Influence of friction-speed relation on the occurrence of stick-slip motion, J Trib 117(3) 450-455 (Jul 1995), 5A773
Handbook of Micro/Nanotribology (CRC Press, Boca Raton FL, 1995) 6N22
Complete contact of rough surfaces, J Friction Wear 16(2) 1-7 (1995), 6A781
Abrasive wear in intermediate mode of multiphase materials, Trib Int 28(8) 523-529 (Dec 1995), 6A815
Contact mechanics of rough surfaces in tribology: Single asperity contact, Appl Mech Rev 49(5) 275-298 (May 1996), 7A996
Derivation and analysis of a generalized standard model for contact, friction, and wear, Int J Solids Struct 33(13) 1817-1836 (May 1996), 8A786
Magnetic flux density distribution on the track surface of rolling-element bearings: An experimental and theoretical investigation, Trib Trans 39(2) 386-391 (Apr 1996), 8A787
Data-fitted rolling bearing life prediction model - Part I: Mathematical model, Trib Trans 39(2) 249-258 (Apr 1996), 8A812
Effective method for modeling stiction in multibody dynamic systems, J Dyn Syst Meas Control 118(1) 172-176 (Mar 1996), 9A976
Friction laws in metal forming, Mech Solids 30(ė) 73-87 (1995), 10T958
Ultrathin liquid lubrication of magnetic head, rigid disk interface for near-contact recording - Part II: Shear thinning and thermal thinning, J Trib 118(2) 396-401 (Apr 1996), 10A959
Ultrathin liquid lubrication of magnetic head-rigid disk interface for near-contact recording - Part I: A closed-form solution to the Reynolds equation, J Trib 118(2) 388-395 (Apr 1996), 10A998
Stability of a rigid rotor in turbulent hydrodynamic worn journal bearings, Wear 193(1) 25-30 (Apr 1996), 11A1076
Nonlinear dynamics of an elastic rod with frictional impact, Nonlinear Dyn 10(2) 187-201 (Jun 1996), 12A117
Conditions for the onset of sliding in a plane system with friction, J Appl Math Mech 59(6) 845-852 (1995), 12A874
Right-hand solutions of the differential equations of dynamics for mechanical systems with sliding friction, J Appl Math Mech 59(6) 837-844 (1995), 12A875

292B. Friction

Retired lecturer's presentation of the theory of friction first presented by Bowden and Tabor, Trib Int 28(1) 29-32 (Feb 1995), 1T935
Effect of friction on multibody dynamics, Eur J Mech A 14(5) 807-825 (1995), 3A84
Deductive theory of friction, Wear 188(1-2) 88-96 (Sep 1995), 3A822
Friction and tool wear in nano-scale machining: A molecular dynamics approach, Wear 188(1-2) 115-122 (Sep 1995), 3A823
Friction and wear characteristics of P-containing antiwear and extreme pressure additives in the sliding of steel against aluminum alloy, Wear 188(1-2) 27-32 (Sep 1995), 3A824
Mechanism of rubber abrasion - Part 3: How is friction linked to fracture in rubber abrasion?, Wear 188(1-2) 19-26 (Sep 1995), 3A825
Painleve paradoxes revisited, Mech Solids 30(1) 15-19 (1995), 3A826
Parametric synthesis of mechanisms with allowance for sliding friction, J Machinery Manuf Reliab 1 16-22 (1995), 3A847
Friction and elasticity on a molecular scale, Trib Letters 1(2-3) 247-252 (Nov 1995), 4T827
Repeatability of friction and wear results and on the influence of humidity in oscillating sliding tests of steel-steel pairings, Wear 189(1-2) 117-121 (Oct 1995), 4A828
Study on positioning accuracy of reciprocating friction drive system, Wear 189(1-2) 58-65 (Oct 1995), 4A829
Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), J Japan Soc Precision Eng 61(10) 1458-1462 (Oct 1995), 4A863
Contact problem taking into account the forces of supercoulomb friction, J Friction Wear 16(1) 94-98 (1995), 5A406
Effect of humidity on the friction and wear properties of Sn, J Trib 117(4) 737-741 (Oct 1995), 5T766
Explaining the mechanics of metallic sliding friction and wear in terms of slipline field models of asperity deformation, Wear 190(2) 145-154 (Dec 1995), 5A767
Fretting wear and friction behavior of engineering ceramics, Wear 190(2) 212-218 (Dec 1995), 5A768
Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, Wear 190(1) 44-59 (Nov 1995), 5A769
Friction force as a function of the sliding velocity of a locomotive wheel pair, J Friction Wear 16(1) 37-40 (1995), 5A770
Frictional resistance of new and explanted artificial hip joints, Wear 190(2) 226-231 (Dec 1995), 5A771
Importance of traction in web handling, J Trib 117(4) 679-684 (Oct 1995), 5A772

Influence of friction-speed relation on the occurrence of stick-slip motion, J Trib 117(3) 450-455 (Jul 1995), 5A773

Investigation into relationship between friction behavior and plastic deformation using a newly devised rolling-type tribometer, J Trib 117(3) 529-533 (Jul 1995), 5A774

Measured transitions between sticking and slipping at lubricated line contacts, J Vib Acoust 117(3A)) 294-299 (Jul 1995), 5A775

Metallic sliding friction under boundary lubricated conditions: Investigation of the influence of lubricant at the start of sliding, Wear 190(2) 197-203 (Dec 1995), 5A776

Recent advances in polymer composites' tribology, Wear 190(2) 139-144 (Dec 1995), 5A777

Simulation of locomotive dynamics considering tribological characteristics of a rail-wheel pair, J Friction Wear 16(1) 18-21 (1995), 5A778

Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, J Eng Indust 117(3) 418-422 (Aug 1995), 5A779

Tribological characteristics of the wheel-rail pair, J Friction Wear 16(1) 99-112 (1995), 5A780

Friction characteristics and adhesion force under low normal load, J Trib 117(4) 569-574 (Oct 1995), 5A781

Model-based investigation of friction during start-up of hydrodynamic journal bearings, J Trib 117(4) 667-673 (Oct 1995), 5A1096

"Self-lubrication" by hydrogen during dry friction of hardened surface layers (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 449-470 (1995), 6A782

Friction and wear of powder steels at limited lubrication, J Friction Wear 16(2) 87-93 (1995), 6A783

Generalized mathematical model of thread friction, Fibres Textiles in E Europe 3(1) 39-40 (Mar 1995), 6A784

Influence of roughness faces, ways of lapping and lubricant viscosity on friction characteristics (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 363-369 (1995), 6A785

Kinetic description of self organization in friction process (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 391-398 (1995), 6A786

Tribological properties of titanium-nickel compound at dry friction, J Friction Wear 16(2) 94-96 (1995), 6A787

Behavior of elastic-plastic rough surface contacts as affected by surface topography, load, and material hardness, Trib Trans 39(1) 67-74 (Jan 1996), 6A817

Investigation on contact mechanics between soil and metal, Trib Trans 39(1) 187-193 (Jan 1996), 6T822

Asperity-asperity friction as measured by a two-ball collision apparatus, Trib Trans 39(1) 33-42 (Jan 1996), 6A833

Tribological characterization of thin hard coatings by reciprocating sliding tests, Trib Letters 1(4) 265-276 (Dec 1995), 6T839

Effect of roughness on the behavior of squeeze film in a spherical bearing, Trib Trans 39(1) 99-102 (Jan 1996), 6A847

Viscoelastic moving-contact problem with inertial effects included, Quart J Mech Appl Math 49(1) 107-135 (Feb 1996), 7A522

Relationship between tribological performance of liquid crystals and their molecular structure, Trib Int 29(1) 35-39 (Feb 1996), 8T788

Impact of plateaued surfaces on tribological performance, Trib Trans 39(2) 354-361 (Apr 1996), 8A794

No-sense ray solution in programming method for contact analysis (Chinese), J Dalian Univ Tech 35(4) 468-472 (Aug 1995), 8A801

Modeling of dynamic friction in lubricated line contacts for precise motion control, Trib Trans 39(2) 476-482 (Apr 1996), 8A1037

East German special issue, Trib Int 29(3) 177-264 (May 1996), 9A977

Friction and wear behavior in plasma sprayed coatings, Acta Phys Polonica A 89(3) 365-370 (Mar 1996), 9A978

Model reduction of Coulomb friction damped systems using singular perturbation theory, J Dyn Syst Meas Control 118(1) 84-91 (Mar 1996), 9A979

Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, Acta Mech Sinica 11(4) 373-382 (1995), 10A309

Dynamics of multibody systems containing dependent unilateral constraints with friction, J Vib and Control 2(2) 161-192 (May 1996), 10A960

Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, Wear 192(1-2) 199-207 (Mar 1996), 10A961

Exoelectrons and tribology, Japan J Trib 40(5) 355-362 (1995), 10T962

Friction and wear of TiN coatings Contribution of CETRIB-INEGI to the TWAI-1993 VAMAS round-robin, Wear 192(1-2) 237-240 (Mar 1996), 10A963

Friction and wear properties of E-glass fiber reinforced epoxy composites under different sliding contact conditions., Wear 192(1-2) 112-117 (Mar 1996), 10A964

Friction behavior of a graphite-graphite dynamic electric contact in the presence of argon, Wear 192(1-2) 151-156 (Mar 1996), 10A965

Heat conditions in friction braking, Mech Solids 30(6) 65-72 (1995), 10A966

Influence of water vapor and oxygen on the tribology of carbon materials with sp^2 valence configuration, Wear 192(1-2) 208-215 (Mar 1996), 10A967

Study of the contact interaction and wear in cylindrical rolling pairs, J Machinery Manuf Reliab 6 40-42 (1995), 10A973

Effect of lubricating oils on piston ring friction and scuffing, Japan J Trib 40(5) 437-449 (1995), 10A1386

Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, Struct Eng and Mech 4(3) 257-276 (May 1996), 11A14

Effect of humidity on the tribological behavior of carbon-carbon composites, Wear 193(1) 38-47 (Apr 1996), 11A802

Effects of diol compounds on the friction and wear of aluminum alloy in a lubricated aluminum-on-steel contact, Wear 193(1) 99-104 (Apr 1996), 11A803

Friction of currency bills, Wear 193(1) 126-131 (Apr 1996), 11A804

Methods for low-velocity friction compensation: Theory and experimental study, J Robotic Syst 13(6) 391-404 (Jun 1996), 11A805

Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, Wear 195(1-2) 21-34 (Jul 1996), 12A723

Analysis of the friction and wear mechanisms of structural ceramic coatings - Part I: The effect of processing conditions, Wear 194(1-2) 1-11 (Jun 1996), 12A876

Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, Wear 194(1-2) 219-227 (Jun 1996), 12A877

Conditions for initiating the translation of a rigid cylinder in a tube, J Mech Des 118(2) 235-242 (Jun 1996), 12A878

Deductive theory of friction - II: Mathematical study, Wear 195(1-2) 81-89 (Jul 1996), 12A879

Determination of tribological history and wear through visualization in lubricated contacts using a carbon-based composite, Wear 194(1-2) 116-125 (Jun 1996), 12A880

Effect of laminate orientations on friction and wear mechanisms of glass reinforced polyester composite, Wear 195(1-2) 186-191 (Jul 1996), 12A881

Effect of resin modification on friction and wear of glass phenolic composites, Wear 193(2) 193-196 (May 1996), 12A882

Finite element analysis of the frictional forces between a cylindrical bearing element and MoS_2 coated and uncoated surfaces, Wear 194(1-2) 60-70 (Jun 1996), 12A883

Friction and bonding, Japan J Trib 40(6) 509-517 (1995), 12T884

Friction and wear behavior of Al_2O_3-TiB_2 composite against cemented carbide in various atmospheres at elevated temperature, Wear 195(1-2) 128-132 (Jul 1996), 12A885

Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, Wear 194(1-2) 103-106 (Jun 1996), 12A886

Friction and wear mechanisms of a thermoplastic composite GF/PA6 subjected to different thermal histories, Wear 194(1-2) 178-184 (Jun 1996), 12A887

Friction and wear model for heavily loaded sliding pair - Part I: Metal damage and fracture model, Wear 194(1-2) 71-79 (Jun 1996), 12A888

Friction and wear of highly stressed thermoplastic bearings under dry sliding conditions, Wear 193(2) 253-260 (May 1996), 12A889

Friction of clean surfaces, Japan J Trib 40(6) 471-479 (1995), 12T890

Hybrid phenolic friction composites containing Kevlar pulp - Part I: Enhancement of friction and wear performance, Wear 193(2) 199-206 (May 1996), 12A891

Investigation of friction-induced thermal processes for some non-Hertzian fast-moving plane contacts, Int J Mech Sci 38(10) 1103-1116 (Oct 1996), 12A892

Measurement of static friction coefficient between flat surfaces, Wear 193(2) 186-192 (May 1996), 12A893

Micro-mechanism of friction drive with ultrasonic wave, Wear 194(1-2) 137-142 (Jun 1996), 12A894

Modeling 2D friction contact and its application using harmonic balance method, J Sound Vib 193(2) 511-523 (Jun 1996), 12A895

Thermal activation in boundary lubricated friction, Wear 193(2) 218-225 (May 1996), 12A896

Tribocharging and friction in insulators in ambient air, Wear 194(1-2) 185-189 (Jun 1996), 12A897

Tribological characteristics of JS material under lubrication of oil, Wear 193(2) 163-168 (May 1996), 12A898

Tribological investigation of textile fabrics, Wear 195(1-2) 192-200 (Jul 1996), 12A899

High resolution characterization of tribochemical films on alumina, Wear 193(2) 133-145 (May 1996), 12A905

Study of the EP activity of water-soluble inorganic metallic salts for aqueous cutting fluids, Wear 193(2) 226-234 (May 1996), 12A912

Surface physics and friction, Japan J Trib 40(6) 501-508 (1995), 12A938

Friction and wear characteristics of gears in high vacuum, JSME Int J Ser C 39(2) 340-346 (Jun 1996), 12A956

292C. Adhesion

Friction force as a function of the sliding velocity of a locomotive wheel pair, J Friction Wear 16(1) 37-40 (1995), 5A770

Friction characteristics and adhesion force under low normal load, J Trib 117(4) 569-574 (Oct 1995), 5A781

Effect of interphase adhesion on composite properties, J Friction Wear 16(2) 82-86 (1995), 6A788

Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface properties via electrical discharge, Fibres Textiles in E Europe 3(1) 41 (Mar 1995), 6T789

Methods for improving the adhesive properties of isotactic polypropylene - II: Modification of the surface properties of isotactic polypropylene using chemical oxidizing methods, Fibres Textiles in E Europe 3(1) 42-43 (Mar 1995), 6T790

Methods of improving the adhesive properties of isotactic polypropylene - III: Modification of surface properties by UV irradiation and phosphorous trichloride, Fibres Textiles in E Europe 3(2) 58-59 (Jun 1995), 6A791

Methods of improving the adhesive properties of isotactic polypropylene - IV: Modification of surface properties by low-molecular substances, Fibres Textiles in E Europe 3(2) 60-61 (Jun 1995), 6A792

Control of adhesion strength in metal-elastomer joints during elastomer crosslinking, Wear 192(1-2) 46-48 (Mar 1996), 10A968

Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, Wear 193(1) 48-55 (Apr 1996), 11A806

292D. Wear (unintentional)

Debris and roughness in machine element contacts: Some current and future engineering implications, Proc Inst Mech Eng J: Eng Trib 209(J3) 149-172 (1995), 1A936

Investigations of barrel bore wearing mechanism, J Theor Appl Mech 33(3) 539-549 (1995), 1A937

On-line monitoring of cutting tool wear through tribo EMF analysis, Int J Machine Tools Manuf 35(11) 1523-1535 (Nov 1995), 1A938

Model for polymer composite wear behavior including preferential load support and surface accumulation of filler particulates, Trib Trans 38(4) 821-828 (Oct 1995), 2T802

Computer Methods and Experimental Measurements for Surface Treatment Effects II (Comput Mech, Billerica MA, 1995) 3N22

Model of brittle-dominated wear due to delayed fracture: Vertical crack growth, Wear 188(1-2) 166-174 (Sep 1995), 3A646

Friction and tool wear in nano-scale machining: A molecular dynamics approach, Wear 188(1-2) 115-122 (Sep 1995), 3A823

Friction and wear characteristics of P-containing antiwear and extreme pressure additives in the sliding of steel against aluminum alloy, Wear 188(1-2) 27-32 (Sep 1995), 3A824

Mechanism of rubber abrasion - Part 3: How is friction linked to fracture in rubber abrasion?, Wear 188(1-2) 19-26 (Sep 1995), 3A825

Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of austenitic heat-resistant steel SUH36 against FE-base sintered alloy using plane specimens, Wear 188(1-2) 175-184 (Sep 1995), 3A827

Study of wear of as-cast and heat-treated spheroidal graphite cast iron under dry sliding conditions, Wear 188(1-2) 61-65 (Sep 1995), 3A828

Wear behavior of AA6061 aluminium alloy and its composites, Wear 188(1-2) 185-191 (Sep 1995), 3A829

Wear characteristics of PDC pin and hybrid core bits in rock drilling, Wear 188(1-2) 150-165 (Sep 1995), 3A830

Contact mechanics of ultrahigh-molecular-weight polyethylene for artificial knee joint, JSME Int J Ser A 38(4) 572-580 (Oct 1995), 3A1400

Repeatability of friction and wear results and on the influence of humidity in oscillating sliding tests of steel-steel pairings, Wear 189(1-2) 117-121 (Oct 1995), 4A828

Abrasive wear behavior of bamboo, Trib Int 28(5) 323-327 (Aug 1995), 4T830

Characteristic features of blanking die wear with consideration for the change in composition, structure and properties of contact surfaces, Wear 189(1-2) 25-31 (Oct 1995), 4A831

Dry sliding wear of discontinuously reinforced aluminum composites: Review and discussion, Wear 189(1-2) 1-19 (Oct 1995), 4A832

Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, Wear 189(1-2) 32-44 (Oct 1995), 4A833

Wear behavior of reinforced aluminum alloys in various impact loadings, Wear 189(1-2) 45-50 (Oct 1995), 4A834

Two-dimensionally quantized friction observed with 2D frictional force microscope, Trib Letters 1(2-3) 121-127 (Nov 1995), 4T836

Effect of humidity on the friction and wear properties of Sn, J Trib 117(4) 737-741 (Oct 1995), 5T766

Explaining the mechanics of metallic sliding friction and wear in terms of slipline field models of asperity deformation, Wear 190(2) 145-154 (Dec 1995), 5A767

Fretting wear and friction behavior of engineering ceramics, Wear 190(2) 212-218 (Dec 1995), 5A768

Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, Wear 190(1) 44-59 (Nov 1995), 5A769

Recent advances in polymer composites' tribology, Wear 190(2) 139-144 (Dec 1995), 5A777

Analysis of wear in cylinder-piston pairs of powerful interal combustion engines, J Friction Wear 16(1) 65-74 (1995), 5A782

Cast iron structures and stress effect of thermally treated cylinder sleeves on their wear, J Friction Wear 16(1) 121-126 (1995), 5A783

Comparative study of the performance of metallic and ceramic femoral head components in total replacement hip joints, Wear 190(2) 171-183 (Dec 1995), 5A784

Lubricated wear of ceramics - Part I: The wear and friction of silicon nitride, alumina, and steel in the presence of a mineral oil based lubricant, Trib Int 28(6) 383-393 (Sep 1995), 5T785

Multi-scale measure of particle abrasivity, and its relation to two-body abrasive wear, Wear 190(2) 190-196 (Dec 1995), 5A786

Nanoscale indentation hardness and wear characterization of hydrogenated carbon thin films, J Trib 117(4) 594-601 (Oct 1995), 5T787

Rating thread compounds for galling resistance, J Trib 117(4) 639-645 (Oct 1995), 5T788

Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, J Trib 117(4) 612-616 (Oct 1995), 5T789

Effect of thermal distortion on wear of composites, J Trib 117(4) 622-628 (Oct 1995), 5A792

Friction and wear of powder steels at limited lubrication, J Friction Wear 16(2) 87-93 (1995), 6A783

Effect of incressing mass of crankpin parts on crankshaft bearings wear and engine life, J Friction Wear 16(2) 19-25 (1995), 6A793

Effectiveness of fretting delay by lubrication (Polish), Zagadnienia Eksplostacji Maszyn 30(3) 443-448 (1995), 6A794

Indenter penetration energy and abrasive wear, J Friction Wear 16(2) 32-38 (1995), 6A795

Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, J Eng Med 209(H4) 263-264 (1995), 6A796

Influence of the bainitic microstructure on wear resistance of the ductile cast iron (Polish), Zagadnienia Eksplostacji Maszyn 30(3) 418-423 (1995), 6A797

Investigation of tool wear my means of similarity theory, Zagadnienia Eksplostacji Maszyn 30(3) 495-500 (1995), 6T798

Limitations of thin film microtransducers in highly loaded contacts, Trib Int 28(8) 517-521 (Dec 1995), 6T799

Relationship between inclusionary deposits and the wear of cutting tools, J Mat Processing Tech 54(1-4) 88-96 (Oct 1995), 6A800

Role of polymeric matrices in improving wear resistance of irradiated FRP composites, Trib Letters 1(4) 301-307 (Dec 1995), 6T801

Sliding bodies contact with wear, J Friction Wear 16(2) 8-11 (1995), 6A802

Sliding wear behavior of Al-SiC particulate composites - Part I: Macrobehavior, Acta Mat 44(2) 451-460 (Feb 1996), 6A803

Sliding wear behavior of Al-SiC particulate composites - II: The characterization of subsurface deformation and correlation with wear behavior, Acta Mat 44(2) 461-473 (Feb 1996), 6A804

Study of materials wear resistance (Polish), Zagadnienia Eksploatacji Maszyn 30(1) 13-28 (1995), 6A805

Tribology in clean environment - Part 1: Dust generation properties of silicon carbide ceramics, Japan J Trib 40(2) 65-78 (1995), 6T806

Wear at dust erosion, J Friction Wear 16(2) 100-107 (1995), 6A807

Wear behavior of natural rubber-containing nickel-alloy coatings, J Friction Wear 16(2) 108-111 (1995), 6A808

Wear of lathe tools hardened in oxide melt, J Friction Wear 16(2) 97-99 (1995), 6A809

Effects of lubricant born solid debris in rolling surface contacts, Trib Trans 39(1) 13-22 (Jan 1996), 6T819

Notes on the statistical characterization of rubbing surfaces, Japan J Trib 40(1) 27-33 (1995), 6T824

Tribological characterization of thin hard coatings by reciprocating sliding tests, Trib Letters 1(4) 265-276 (Dec 1995), 6T839
Improvement of wear resistance of crankshaft journals, J Friction Wear 16(2) 132-134 (1995), 6T848
Fatigue-energy model of exhaust valve erosion, J Machinery Manuf Reliab 3 51-57 (1995), 6A879
Review of the performance of engineering materials under prevalent tribological and wear situations in South African industries, Trib Int 29(2) 105-116 (Feb 1996), 8T789
Impact of plateaued surfaces on tribological performance, Trib Trans 39(2) 354-361 (Apr 1996), 8A794
Influence of surface roughness on friction and scuffing behavior of cast iron under sparse lubrication, Trib Int 29(2) 129-136 (Feb 1996), 8A795
East German special issue, Trib Int 29(3) 177-264 (May 1996), 9A977
Friction and wear behavior in plasma sprayed coatings, Acta Phys Polonica A 89(3) 365-370 (Mar 1996), 9A978
Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, JSME Int J Ser C 39(1) 115-122 (Mar 1996), 9A1341
Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, Wear 192(1-2) 11-20 (Mar 1996), 10A748
Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, Wear 192(1-2) 199-207 (Mar 1996), 10A961
Exoelectrons and tribology, Japan J Trib 40(5) 355-362 (1995), 10T962
Friction and wear of TiN coatings Contribution of CETRIB-INEGI to the TWA1-1993 VAMAS round-robin, Wear 192(1-2) 237-240 (Mar 1996), 10A963
Friction and wear properties of E-glass fiber reinforced epoxy composites under different sliding contact conditions., Wear 192(1-2) 112-117 (Mar 1996), 10A964
Influence of water vapor and oxygen on the tribology of carbon materials with sp^2 valence configuration, Wear 192(1-2) 208-215 (Mar 1996), 10A967
Abrasive wear resistance of aluminum allot-ceramic particluate composites, Wear 192(1-2) 170-177 (Mar 1996), 10A969
Characteristics of diamond sawblade wear in sawing, Int J Machine Tools Manuf 36(6) 661-672 (Jun 1996), 10A970
Dry sliding wear of NiAl, Wear 192(1-2) 241-247 (Mar 1996), 10A971
Redesigning mechanical systems for low wear using system dynamics modeling, J Trib 118(2) 415-422 (Apr 1996), 10T972
Study of the contact interaction and wear in cylindrical rolling pairs, J Machinery Manuf Reliab 6 40-42 (1995), 10A973
Study of wear resistance of a new brush-plated alloy Ni-Fe-W-S, Wear 192(1-2) 165-169 (Mar 1996), 10A974
Transitions in the mechanism of material removal in abrasive wear of alumina, Wear 192(1-2) 228-232 (Mar 1996), 10A975
Wear behavior of laser-clad stellite alloy 6, Wear 192(1-2) 78-84 (Mar 1996), 10A976
Wear characteristics of sub-zero chilled cast iron, Wear 192(1-2) 134-140 (Mar 1996), 10A977
Wear of aluminum matrix composites reinforced with nickel-coated carbon fibers, Wear 192(1-2) 186-198 (Mar 1996), 10A978
Contact of surface asperities in wear, Trib Int 29(4) 275-279 (Jun 1996), 10T980
Effect of structural features on erosion resistance of cast irons, Trib Letters 2(1) 99-111 (Mar 1996), 10T987
Effect of lubricating oils on piston ring friction and scuffing, Japan J Trib 40(5) 437-449 (1995), 10A1386
Investigation of the corrosive wear of stainless steels in aqueous slurries, Wear 193(1) 73-77 (Apr 1996), 11A645
Effect of humidity on the tribological behavior of carbon-carbon composites, Wear 193(1) 38-47 (Apr 1996), 11A802
Effects of diol compounds on the friction and wear of aluminum alloy in a lubricated aluminum-on-steel contact, Wear 193(1) 99-104 (Apr 1996), 11A803
Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, Wear 193(1) 48-55 (Apr 1996), 11A806
Carbide tool wear mechanism in turning of Inconel 718 superalloy, Wear 193(1) 16-24 (Apr 1996), 11A807
Characteritics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, Wear 193(1) 66-72 (Apr 1996), 11A808
Effects of retained austenite on dry sliding wear behavior of carburized steels, Wear 193(1) 8-15 (Apr 1996), 11A809
Impact of Dolrin disc: Lubricated and dry contacts, Wear 193(1) 114-125 (Apr 1996), 11A810
Analysis of the friction and wear mechanisms of structural ceramic coatings - Part I: The effect of processing conditions, Wear 194(1-2) 1-11 (Jun 1996), 12A876
Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, Wear 194(1-2) 219-227 (Jun 1996), 12A877
Determination of tribological history and wear through visualization in lubricated contacts using a carbon-based composite, Wear 194(1-2) 116-125 (Jun 1996), 12A880
Effect of laminate orientations on friction and wear mechanisms of glass reinforced polyester composite, Wear 195(1-2) 186-191 (Jul 1996), 12A881
Effect of resin modification on friction and wear of glass phenolic composites, Wear 193(2) 193-198 (May 1996), 12A882
Friction and wear behavior of Al_2O_3-TiB_2 composite against cemented carbide in various atmospheres at elevated temperature, Wear 195(1-2) 128-132 (Jul 1996), 12A885
Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, Wear 194(1-2) 103-106 (Jun 1996), 12A886
Friction and wear mechanisms of a thermoplastic composite GF/PA6 subjected to different thermal histories, Wear 194(1-2) 178-184 (Jun 1996), 12A887
Friction and wear model for heavily loaded sliding pair - Part I: Metal damage and fracture model, Wear 194(1-2) 71-79 (Jun 1996), 12A888
Friction and wear of highly stressed thermoplastic bearings under dry sliding conditions, Wear 193(2) 253-260 (May 1996), 12A889
Hybrid phenolic friction composites containing Kevlar pulp - Part I: Enhancement of friction and wear performance, Wear 193(2) 199-206 (May 1996), 12A891
Tribological characteristics of JS material under lubrication of oil, Wear 193(2) 163-168 (May 1996), 12A898
Dry sliding wear of an alumina short fiber reinforced Al-Si alloy against steel, Wear 195(1-2) 106-111 (Jul 1996), 12A900
Effect of element additions on wear property of eutectic aluminum-silicon alloys, Wear 194(1-2) 54-59 (Jun 1996), 12A901
Effects of operating parameters and environment on the wear and wear transition of alumina, Wear 195(1-2) 90-99 (Jul 1996), 12A902
Evaluation of the wear behavior of dual-phase low carbon steel, Wear 193(2) 248-252 (May 1996), 12A903
Evaluation of wear of turning carbide inserts using neural networks, Int J Machine Tools Manuf 36(7) 789-797 (Jul 1996), 12A904
High resolution characterization of tribochemical films on alumina, Wear 193(2) 133-145 (May 1996), 12A905
Model for the abrasive wear of fiber-reinforced polymer composites, Wear 195(1-2) 123-127 (Jul 1996), 12A906
Modeling of microfracture-induced wear and wear transition in sliding of polycrystalline alumina ceramics, Wear 195(1-2) 169-177 (Jul 1996), 12A907
Reciprocal sliding wear of SiC particle-reinforced Al-Cu aluminium matrix composites against stainless steel, high speed tool steel and ceramics - II: Wear mechanisms, Wear 194(1-2) 126-136 (Jun 1996), 12A908
Reciprocal sliding wear of SiC particle reinforced Al-Cu aluminum matrix composites against stainless steel, high speed tool steel and ceramics - I: Tribological properties and construction of tribomaps, Wear 195(1-2) 152-161 (Jul 1996), 12A909
Running-in wear of a steel/SiC_p-Al composite system, Wear 194(1-2) 38-43 (Jun 1996), 12A910
Sliding wear behavior of deformation-processed cu-15vol%Cr in situ composites, Wear 195(1-2) 214-222 (Jul 1996), 12A911
Study of the EP activity of water-soluble inorganic metallic salts for aqueous cutting fluids, Wear 193(2) 226-234 (May 1996), 12A912
Study on wear behavior of low Cr steel under the effect of impact loading, Wear 194(1-2) 198-203 (Jun 1996), 12A913
Tribological properties of SiC whisker and molybdenum particle-reinforced aluminum matrix composites under lubrication, Wear 195(1-2) 66-73 (Jul 1996), 12A914
Unlubricated rolling-sliding wear mechanisms of complex aluminum bronze against steel, Wear 193(2) 235-241 (May 1996), 12A915
Wear and wear transition mechanisms of ceramics, Wear 195(1-2) 112-122 (Jul 1996), 12A916
Wear and wear transition modeling of ceramics, Wear 195(1-2) 35-46 (Jul 1996), 12A917
Wear behavior of steel 1080 with different microstructures during dry sliding, Wear 194(1-2) 44-53 (Jun 1996), 12A918
Wear behavior of triode-sputtered MoS_2 coatings in dry sliding contact with steel and ceramics, Wear 195(1-2) 7-20 (Jul 1996), 12A919
Wear of 2024 Al-Mo-SiC composites under lubrication, Wear 195(1-2) 100-105 (Jul 1996), 12A920
Wear of SiC-reinforced Al-matrix composites in the temperature range 20-200° C, Wear 193(2) 169-179 (May 1996), 12A921
Well-founded selection of materials for improved wear resistance, Wear 194(1-2) 238-245 (Jun 1996), 12A922
Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, Wear 195(1-2) 223-231 (Jul 1996), 12A923
Surface damage under dynamic loading, Trib Int 29(5) 357-363 (Aug 1996), 12T936
Friction and wear characteristics of gears in high vacuum, JSME Int J Ser C 39(2) 340-346 (Jun 1996), 12A956
Geometry and pressure in a trochoidal-type machine without apex seal, J Mech Des 118(2) 209-213 (Jun 1996), 12A979
Fundamentals of the service life design of diesel exhaust valves, J Machinery Manuf Reliab 1 45-54 (1996), 12A985
Additives for fluorosilicone oils at high temperature, Wear 193(2) 261-268 (May 1996), 12A1195

292E. Contact fatigue

Mechanics of Fretting Fatigue (Kluwer, Norwell MA, 1994) 2R21
Contact Mechanics II - Computational Techniques (Comput Mech, Billerica MA, 1995) 2N24
Diagnosis of bearing problem of synchronous condenser: An experimental and theoretical investigation, Wear 188(1-2) 97-101 (Sep 1995), 3A831
Fatigue life model for general rolling contact with application to wheel-rail damage, Fatigue Fracture Eng Mat Struct 18(10) 1189-1199 (Oct 1995), 3A832
Longevity criteria for the mechanisms incorporating higher kinetmatic pairs, derived by solving the contact problem, J Machinery Manuf Reliab 1 38-44 (1995), 3A856
Numerical elastoplastic model for rough contact, J Trib 117(3) 422-429 (Jul 1995), 5A585
Conditions for scuffing failure of ground and superfinished steel disks at high sliding speeds using a gas turbine engine oil, J Trib 117(3) 482-489 (Jul 1995), 5T790
Contact mechanics and the wear of metals, Wear 190(2) 162-170 (Dec 1995), 5A791
Calculation of rolling-contact bearing service life under variable conditions of loading, Russian Aeronaut 38(1) 78-81 (1995), 6A810
4th international conference on contact mechanics and wear of rail-wheel systems, Wear 191(1-2) 1-264 (Jan 1996), 8A790
Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, Acta Phys Polonica A 89(3) 357-363 (Mar 1996), 9A986
Additive's influence on the pitting and wear of ball bearing steel, Wear 192(1-2) 66-73 (Mar 1996), 10A979
Contact of surface asperities in wear, Trib Int 29(4) 275-279 (Jun 1996), 10T980
Metallographic study on rolling contact fatigue of 0.44%C - 1.71% Mn induction-hardened bearing steels, Wear 192(1-2) 1-5 (Mar 1996), 10A981
Rolling contact fatigue of three pearlitic rail steels, Wear 192(1-2) 94-111 (Mar 1996), 10A982
Simplified direct method for cyclic strain calculation: Repeated rolling-sliding contact on a case-hardened half plane, J Trib 118(2) 329-334 (Apr 1996), 10A983
Spectral analysis of 2D contact problems, J Trib 118(2) 320-328 (Apr 1996), 10A984
Evaluation of fatigue and wear characteristics of M50 steel using MIL-L-7808K, Int J Fatigue 18(3) 191-196 (Apr 1996), 12A924

292F. Thermomechanical effects

Tribology at high temperatures, Trib Int 28(1) 45-50 (Feb 1995), 1T939
Effect of interchanging tapes and head contour on the durability of metal evaporated, metal particle and barium ferrite magnetic tapes, Trib Trans 38(4) 801-810 (Oct 1995), 2T803
Plane contact problem for periodic laminated composite involving frictional heating, Arch Appl Mech 66(1-2) 82-89 (Dec 1995), 5A474
Effect of thermal distortion on wear of composites, J Trib 117(4) 622-628 (Oct 1995), 5A792
Performance of powder-lubricated journal bearings with MoS_2 powder: Experimental study of thermal phenomena, J Trib 117(3) 506-512 (Jul 1995), 5T793
Plane contact problem with heat generation account of friction, Int J Eng Sci 34(1) 101-112 (Jan 1996), 5A794
Initial temperature evaluation for flash temperature index of gear tooth, J Trib 117(3) 476-481 (Jul 1995), 5T821
Thermodynamic analysis of rough surfaces in contact, J Friction Wear 16(2) 26-31 (1995), 6A811
Lubricious-surface-silicon-nitride rings for high-temperature tribological applications, Trib Trans 39(1) 43-50 (Jan 1996), 6T814
Single-axial groove journal bearings: Static characteristics and temperature prediction technique, Proc Inst Mech Eng J: Eng Trib 210(J1) 45-53 (1996), 7T1011
Thermal and slip mechanism effects in rapid indentation by a flat punch, Acta Mech 114(1-4) 185-201 (1996), 8A188
Hydro-roll: A novel bearing design with superior thermal characteristics, Trib Trans 39(2) 455-461 (Apr 1996), 8A815
Piston assembly design for improved thermal-tribological performance, Trib Trans 39(2) 483-489 (Apr 1996), 8A822
Spectral analysis of 2D contact problems, J Trib 118(2) 320-328 (Apr 1996), 10A984
Effect of surface roughness on the head-tape interface, J Trib 118(2) 376-381 (Apr 1996), 10A993
Periodic thermal deformation of large seal ring, JSME Int J Ser C 39(2) 347-355 (Jun 1996), 12A965

292G. Friction materials

Model for polymer composite wear behavior including preferential load support and surface accumulation of filler particulates, Trib Trans 38(4) 821-828 (Oct 1995), 2T802
Comparative tribology studies of hard ceramic and composite metal-DLC coatings in sliding friction conditions, Trib Trans 38(4) 829-836 (Oct 1995), 2T804
Abrasive wear behavior of bamboo, Trib Int 28(5) 323-327 (Aug 1995), 4T830
Influence of surface roughness on normal-sliding lubrication, Trib Int 28(5) 317-322 (Aug 1995), 4A835
Two-dimensionally quantized friction observed with 2D frictional force microscope, Trib Letters 1(2-3) 121-127 (Nov 1995), 4T836
Lubricated wear of ceramics - Part I: The wear and friction of silicon nitride, alumina, and steel in the presence of a mineral oil based lubricant, Trib Int 28(6) 383-393 (Sep 1995), 5T785
Study on a new internal finishing process by the application of magnetic abrasive machining: Internal finishing of stainless steel tube and clean gas bomb, JSME Int J Ser C 38(4) 798-804 (Dec 1995), 6A581
Tribology in clean environment - Part I: Dust generation properties of silicon carbide ceramics, Japan J Trib 40(2) 65-78 (1995), 6T806
Effect of copolyester microstructure on friction of graphite-filled composites, J Friction Wear 16(2) 73-77 (1995), 6A812
General approach to discontinuous transfer films: The respective role of mechanical and physico-chemical interactions, Trib Trans 39(1) 157-165 (Jan 1996), 6A813
Lubricious-surface-silicon-nitride rings for high-temperature tribological applications, Trib Trans 39(1) 43-50 (Jan 1996), 6T814
Friction characteristics of carbon versus silicon carbide under stepwise loading conditions, Trib Trans 39(2) 338-345 (Apr 1996), 8A791
Topographic investigation of the wear resistance of PTFE seals in sliding contact with ceramic materials, Trib Trans 39(2) 434-440 (Apr 1996), 8T798
Effect of additives on friction, wear, and iron fluoride formation under perfluoropolyether fluid lubrication in vacuum and various atmospheres containing oxygen, Wear 192(1-2) 178-185 (Mar 1996), 10A985
Effect of phosphorus-containing additives on the wear of aluminum in the lubricated aluminum-on-steel contact, Trib Letters 2(1) 37-45 (Mar 1996), 10T986
Effect of structural features on erosion resistance of cast irons, Trib Letters 2(1) 99-111 (Mar 1996), 10T987
Effect of surface roughness on the head-tape interface, J Trib 118(2) 376-381 (Apr 1996), 10A993
Influence of TiC, CaF_2 and MnS additives on friction and lubrication of sintered high speed steels at elevated temperature, Wear 193(1) 31-37 (Apr 1996), 11A811
Frictional characteristics of fatty-based oils in wire drawing, Wear 194(1-2) 30-37 (Jun 1996), 12A925

292H. Surface effects, topography, coatings

Debris and roughness in machine element contacts: Some current and future engineering implications, Proc Inst Mech Eng J: Eng Trib 209(J3) 149-172 (1995), 1A936
Effects of cylinder wall surface roughness and bore distortion on blow-by in automotive engines, Trib Trans 38(4) 966-972 (Oct 1995), 2T805
Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, Arab J Sci Eng 20(2) 343-359 (Apr 1995), 2A806
Re:onstruction of contact pressures between flexible objects and rigid planes using friction data, Appl Math Model 19(10) 578-582 (Oct 1995), 2A807
Role of head parameters on head-disc interface, Trib Trans 38(4) 863-868 (Oct 1995), 2A808

Role of soot aggregation on the lubrication of diesel engines, Trib Trans 38(4) 959-965 (Oct 1995), 2A809

Effect of cleanliness on the attainable bearing life in aerospace applications, Trib Trans 38(4) 851-856 (Oct 1995), 2T814

Computer Methods and Experimental Measurements for Surface Treatment Effects II (Comput Mech, Billerica MA, 1995) 3N22

Subsurface deformation of steel by solid particle impact investigated by ion beam slope cutting and scanning electron microscopy, Wear 188(1-2) 108-114 (Sep 1995), 3A663

Bed thickness and particle size distribution in three-body abrasion, Wear 188(1-2) 102-107 (Sep 1995), 3A833

Development of a graded TiCN coating for cemented carbide cutting tools: A design approach, Wear 188(1-2) 123-129 (Sep 1995), 3A834

Film-substrate interface stresses and their role in the tribological performance of surface coatings, Trib Int 28(3) 145-161 (May 1995), 3A835

Numerical simulation of granular Couette flows between two rough parallel plates, Particulate Sci Tech 13(2) 133-147 (Jun 1995), 3A929

Influence of surface roughness on normal-sliding lubrication, Trib Int 28(5) 317-322 (Aug 1995), 4A835

Amorphous state formation and structural changes in α alumina by repeated rubbing, Wear 189(1-2) 86-90 (Oct 1995), 4A837

Cyclic micro-slip under unlubricated conditions, Trib Int 28(4) 207-217 (Jun 1995), 4A838

Determination of temperatures for sliding contact with applications for wheel-rail systems, Wear 189(1-2) 91-99 (Oct 1995), 4A839

Effect of carbic orientation on abrasion of high Cr white cast iron, Wear 189(1-2) 136-142 (Oct 1995), 4A840

Electronic contributions to sliding friction, Trib Letters 1(2-3) 211-218 (Nov 1995), 4A841

Environmental effects on the formation process of adhesive wear particles, Trib Int 28(5) 279-286 (Aug 1995), 4T842

Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, Wear 189(1-2) 70-76 (Oct 1995), 4A843

Laboratory testing of displacement and load induced fretting, Trib Int 28(5) 269-278 (Aug 1995), 4T844

Tribological properties of cobalt-partially stabilized zirconia (PSZ) composites in dry sliding conditions, Wear 189(1-2) 100-106 (Oct 1995), 4A845

Scanning conduction microscopic method for probing abrasion of insulating thin films, Trib Letters 1(2-3) 159-175 (Nov 1995), 4A848

Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, J Trib 117(4) 729-736 (Oct 1995), 5T9

Consideration of optimum conditions for surface smoothing based on lubricating mechanisms in ironing process, J Eng Indust 117(3) 351-356 (Aug 1995), 5A562

Nanoscale indentation hardness and wear characterization of hydrogenated carbon thin films, J Trib 117(4) 594-601 (Oct 1995), 5T787

Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, J Trib 117(4) 612-616 (Oct 1995), 5T789

Accurate real area of contact measurements on polyurethane, J Trib 117(4) 607-611 (Oct 1995), 5T795

Advances in tribology: The materials point of view, Wear 190(2) 155-161 (Dec 1995), 5A796

Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler, Wear 190(1) 76-88 (Nov 1995), 5A797

Comprehensive tribological characterization of thin TiN-based coatings, Wear 190(2) 204-211 (Dec 1995), 5A798

Dust generation from rolling-sliding elements of combined stainless steel and silicon nitride, J Trib 117(4) 634-638 (Oct 1995), 5T799

Influence of indent geometry on repeated 2D rolling contact, J Trib 117(4) 655-659 (Oct 1995), 5T800

Mechanical and tribological properties of hard carbon coatings for magnetic recording heads, Wear 190(1) 110-122 (Nov 1995), 5A801

Role of tape abrasivity on friction, wear, staining and signal degradation in audio tapes, Wear 190(1) 16-27 (Nov 1995), 5A802

Surface roughness analysis of glass-ceramic substrates and finished magnetic disks, and Ni-P coated Al-Mg and glass substrates, Wear 190(1) 89-109 (Nov 1995), 5A803

Tribological and dynamic behavior of alternative magnetic tape substrates, Wear 190(1) 28-43 (Nov 1995), 5A804

Tribological performance of magnetic thin-film glass disks: Its relation to surface roughness and lubricant structure and its thickness, Wear 190(1) 60-75 (Nov 1995), 5A805

Tribological problems in magnetic disk recording technology, Wear 190(2) 232-238 (Dec 1995), 5A806

Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), J Soc Mat Sci Japan 44(506) 1332-1337 (Nov 1995), 6A618

Corrosion resistible coating with combination of ion plating and heat treatment for molten carbonate fuel cell separator, J Soc Mat Sci Japan 44(506) 1320-1325 (Nov 1995), 6A620

"Self-lubrication" by hydrogen during dry friction of hardened surface layers (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 449-470 (1995), 6A782

Role of polymeric matrices in improving wear resistance of irradiated FRP composites, Trib Letters 1(4) 301-307 (Dec 1995), 6T801

General approach to discontinuous transfer films: The respective role of mechanical and physico-chemical interactions, Trib Trans 39(1) 157-165 (Jan 1996), 6A813

Abrasive wear in intermediate mode of multiphase materials, Trib Int 28(8) 523-529 (Dec 1995), 6A815

Analysis of surface layers obtained during tribological investigation of low friction additives (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 407-415 (1995), 6A816

Behavior of elastic-plastic rough surface contacts as affected by surface topography, load, and material hardness, Trib Trans 39(1) 67-74 (Jan 1996), 6A817

Effect of boron introduction into bearing steel through laser treatment on the properties of surface layers (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 426-432 (1995), 6A818

Effects of lubricant born solid debris in rolling surface contacts, Trib Trans 39(1) 13-22 (Jan 1996), 6T819

Influence of surface oxidation on the wear resistance of cast iron, Trib Int 28(7) 433-438 (Nov 1995), 6T820

Interfacial reactions between thin films of zinc and (100) InP, Acta Phys Polonica A 88(4) 771-774 (Oct 1995), 6A821

Investigation on contact mechanics between soil and metal, Trib Trans 39(1) 187-193 (Jan 1996), 6T822

Model of scuffing based on the vulnerability of an elastohydrodynamic oil film to chemical degradation catalyzed by the contacting surfaces, Trib Letters 1(4) 349-365 (Dec 1995), 6A823

Notes on the statistical characterization of rubbing surfaces, Japan J Trib 40(1) 27-33 (1995), 6T824

Operation surface layer and its investigation (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 327-337 (1995), 6T825

Suppression of free surface roughening of metal with plastic deformation, JSME Int J Ser C 38(4) 824-830 (Dec 1995), 6A826

Surface microgeometry sensitiveness to cyclic load's process (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 355-362 (1995), 6A827

Tribological behavior of solid lubricant coatings, J Friction Wear 16(2) 63-67 (1995), 6T828

Effect of oxide layers on behaviors of particle impact damage of silicon carbide (Japanese), J Soc Mat Sci Japan 44(507) 1439-1444 (Dec 1995), 7A258

Hardness and elasticity measurement of thin films with nanoindenter, Japan J Trib 40(3) 139-149 (1995), 7A997

Hardness of electro plated coatings, Japan J Trib 40(3) 199-209 (1995), 7T998

Tribological study on molecularly thin films using non-equilibrium molecular dynamics, Japan J Trib 40(3) 224-237 (1995), 7T999

Tribology of thin films, Japan J Trib 40(3) 119-128 (1995), 7A1000

Elasticity of nanoindentation, Japan J Trib 40(3) 129-138 (1995), 7T1003

Computational study of contact mechanics between magnetic recording heads and thin-film disks, Trib Trans 39(2) 490-494 (Apr 1996), 8A792

Head-tape interface: A critical review and recent results, Trib Trans 39(2) 306-313 (Apr 1996), 8A793

Impact of plateaued surfaces on tribological performance, Trib Trans 39(2) 354-361 (Apr 1996), 8A794

Influence of surface roughness on friction and scuffing behavior of cast iron under sparse lubrication, Trib Int 29(2) 129-136 (Feb 1996), 8A795

Infrared and visual study of the mechanisms of scuffing, Trib Trans 39(2) 441-447 (Apr 1996), 8A796

Numerical model for the dry sliding contact of layered elastic bodies with rough surfaces, Trib Trans 39(2) 416-424 (Apr 1996), 8T797

Topographic investigation of the wear resistance of PTFE seals in sliding contact with ceramic materials, Trib Trans 39(2) 434-440 (Apr 1996), 8T798

Elastic vibrations of planar and deterministic rough surfaces, Acta Phys Polonica A 89(2) 129-137 (Feb 1996), 9A358

Application of mechanical waves induced by piezofilms to marine fouling prevention, J Intelligent Mat Syst Struct 7(1) 33-43 (Jan 1996), 9A980

Auger electron spectrometer SEA 02 in the study on NiTi alloy (Polish), Arch Naukio Mat 16(1) 63-73 (1995), 9A981

Determination of surface roughness by grazing incidence X-ray reflectivity, Acta Phys Polonica A 89(3) 347-352 (Mar 1996), 9A982

Distinguishing features of phase transformation in the surface layer of hardened steel with (α + γ)-two-phase structure during plastoelastic loading at different rates, Acta Phys Polonica A 89(3) 353-356 (Mar 1996), 9A983

Mechanical properties of surface strengthened materials and designing of surface layers, Acta Phys Polonica A 89(2) 155-169 (Feb 1996), 9A984

Natural surface layer of metals, Acta Phys Polonica A 89(3) 377-381 (Mar 1996), 9A985

Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, Acta Phys Polonica A 89(3) 357-363 (Mar 1996), 9A986

Review of surface relaxation and reconstruction phenomena, Acta Phys Polonica A 89(2) 251-263 (Feb 1996), 9A987

Studies of composition of surfaces and interfaces with the use of Auger electron spectroscopy, Acta Phys Polonica A 89(2) 183-193 (Feb 1996), 9T988

Surface roughness by X-ray and neutron scattering methods, Acta Phys Polonica A 89(2) 219-234 (Feb 1996), 9A989

Surface studies of $Re_3Fe_5O_{12}$ garnets, $ReFeO_3$ orthoferrites and $ReVO_4$ orthovanadates, Acta Phys Polonica A 89(3) 329-333 (Mar 1996), 9T990

Surface treatment effect on bulk magnetoelastic properties of high damping Fe-based alloys, Acta Phys Polonica A 89(3) 425-430 (Mar 1996), 9A991

Thermoforce interaction of deformable coatings with allowance for wear, J Machinery Manuf Reliab 5 59-64 (1995), 9A992

Protective coatings in harsh environments, J Micromech Microeng 6(1) 55-57 (Mar 1996), 10T470

Model of brittle materials single point machining with high removal rates, J Brazilian Soc Mech Sci 18(1) 33-39 (Mar 1996), 10A713

Method for predicting service load from the width and height of striation (Japanese), J Soc Mat Sci Japan 45(3) 340-345 (Mar 1996), 10A743

Fretting fatigue in elastic contacts due to tangential micro-motion, Trib Int 29(4) 265-273 (Jun 1996), 10A749

Ultrathin liquid lubrication of magnetic head, rigid disk interface for near-contact recording - Part II: Shear thinning and thermal thinning, J Trib 118(2) 396-401 (Apr 1996), 10A959

Approximate model of surface ploughing by a rotating disc and other indenters, Wear 192(1-2) 157-164 (Mar 1996), 10A988

Calculation of the fractal dimensions of machined surface profiles, Wear 192(1-2) 40-45 (Mar 1996), 10A989

Comparison of plane and axisymmetric contacts between elastically dissimilar bodies, J Trib 118(2) 439-442 (Apr 1996), 10T990

Development of surface topography during cold rolling of twin-roll cast aluminum, Wear 192(1-2) 216-227 (Mar 1996), 10A991

Effect of interface layers formed during dry sliding of zirconia toughened alumina (ZTA) and monolithic alumina against steel, Wear 192(1-2) 56-65 (Mar 1996), 10A992

Effect of surface roughness on the head-tape interface, J Trib 118(2) 376-381 (Apr 1996), 10A993

Evaluation of metallic coatings for erosive wear resistance in die casting applications, Wear 192(1-2) 49-55 (Mar 1996), 10A994

Magnetic fluid grinding of HIP-Si_3N_4 rollers, Wear 192(1-2) 85-93 (Mar 1996), 10A995

Si-modified ZA alloy for journal bearing applications, Wear 192(1-2) 128-133 (Mar 1996), 10A996

Study of cross-width variations in the 2D foil bearing problem, J Trib 118(2) 407-414 (Apr 1996), 10A997

Ultrathin liquid lubrication of magnetic head-rigid disk interface for near-contact recording - Part I: A closed-form solution to the Reynolds equation, J Trib 118(2) 388-395 (Apr 1996), 10A998

Finite element analysis of the frictional forces between a cylindrical bearing element and MoS_2 coated and uncoated surfaces, Wear 194(1-2) 60-70 (Jun 1996), 12A883

Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, Wear 194(1-2) 149-155 (Jun 1996), 12A926

Comparative wear mapping techniques - II: Surface roughness and fractal dimension mapping of tungsten carbide-silicon carbide, Wear 194(1-2) 228-237 (Jun 1996), 12A927

Effects of surface-finishing condition and annealing on transformation sensitivity of 3 a mol% Y_2O_3 stabilized tetragonal zirconia surface under interaction of lubricant, Wear 194(1-2) 204-211 (Jun 1996), 12A928

Hybrid phenolic friction composites containing Kevlar pulp - Part II: Wear surface characteristics, Wear 193(2) 180-185 (May 1996), 12A929

Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, Wear 194(1-2) 174-177 (Jun 1996), 12A930

Microtribological problems of physics and mechanics in smooth surface contact, Trib Int 29(5) 377-384 (Aug 1996), 12T931

New applications of the Rehbinder effect in tribology: A review, Wear 194(1-2) 86-94 (Jun 1996), 12A932

Revised model for predicting surface roughness in turning, Wear 194(1-2) 143-148 (Jun 1996), 12A933

Study on abrasive resistance of Ni-based coatings with a WC hard phase, Wear 195(1-2) 47-52 (Jul 1996), 12A934

Surface capacity of gears of circular-arc tooth-profile, Wear 193(2) 146-154 (May 1996), 12A935

Surface damage under dynamic loading, Trib Int 29(5) 357-363 (Aug 1996), 12T936

Surface integrity studies on shot-penned thermal-treated En 24 steel spur gears, Wear 193(2) 242-247 (May 1996), 12A937

Surface physics and friction, Japan J Trib 40(6) 501-508 (1995), 12A938

Tribological characteristics of titanium nitride coatings - Part I: Coating thickness effects, Wear 194(1-2) 12-21 (Jun 1996), 12A939

Tribological characteristics of titanium nitride coatings - Part II: Comparisons of two deposition processes, Wear 194(1-2) 22-29 (Jun 1996), 12A940

Analysis of moisture adsorbed on surface, Japan J Trib 40(6) 529-537 (1995), 12T946

Measurement of surface finish using an optical diffraction technique, Wear 195(1-2) 148-151 (Jul 1996), 12A948

292I. Wear monitoring

Computer Methods and Experimental Measurements for Surface Treatment Effects II (Comput Mech, Billerica MA, 1995) 3N22

Study on positioning accuracy of reciprocating friction drive system, Wear 189(1-2) 58-65 (Oct 1995), 4A829

Environmental effects on the formation process of adhesive wear particles, Trib Int 28(5) 279-286 (Aug 1995), 4T842

Simple coefficient for wear assessment, Wear 189(1-2) 77-85 (Oct 1995), 4A846

In-process control of surface roughness due to tool wear using a new ultrasonic system, Int J Machine Tools Manuf 36(3) 411-422 (Mar 1996), 5A357

Deformation and wear of a half-space by a sliding convex indenter, J Friction Wear 16(1) 118-120 (1995), 5A807

Examination of contact wire wear and increase of its durability, J Friction Wear 16(1) 134-137 (1995), 5A808

High temperature friction and wear testing of silicon nitride ceramics, Trib Int 28(6) 403-413 (Sep 1995), 5T809

Review of maintenance data on wheel-flange wear, J Friction Wear 16(1) 85-89 (1995), 5A810

Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, Wear 190(2) 219-225 (Dec 1995), 5A811

Influence of surface oxidation on the wear resistance of cast iron, Trib Int 28(7) 433-438 (Nov 1995), 6T820

Informational support of a system for dynamic diagnostics of cutting tool wear in turning, J Machinery Manuf Reliab 3 94-105 (1995), 6A829

Measurement of wear in retrieved acetabular sockets, J Eng Med 209(H4) 233-242 (1995), 6A1366

Drill wear monitoring using neural networks, Int J Machine Tools Manuf 36(4) 465-475 (Apr 1996), 7A1001

Life test of ceramic ball bearings by staircase method (Japanese), J Japan Soc Precision Eng 61(12) 1740-1744 (Dec 1995), 7A1002

Using neural network for tool condition monitoring based on wavelet decomposition, Int J Machine Tools Manuf 36(5) 551-566 (May 1996), 8A799

Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, J Biomech 29(5) 687-692 (May 1996), 8A1450

Monitoring of drill fracture from the current measurement of a three-phase induction motor, Int J Machine Tools Manuf 36(6) 729-738 (Jun 1996), 10A999

Tool condition monitoring in drilling using vibration signature analysis, Int J Machine Tools Manuf 36(6) 687-711 (Jun 1996), 10A1000

Micro-scale abrasive wear testing of PVD coatings on curved substrates, Trib Letters 2(1) 1-11 (Mar 1996), 10T1002

Damage gear detection by magnitude and phase demodulation (French), Rev Francaise Mec 0(1) 5-12 (1996), 11A657

Development of the dry sand-rubber wheel abrasion test, Wear 195(1-2) 232-240 (Jul 1996), 12A941

Effect of varying the workpiece diameter on the cutting tool clearance angle in tool-life testing, Wear 195(1-2) 201-205 (Jul 1996), 12A942

Machinability of sintered carbons based on the correlation between tool wear rate and physical and mechanical properties, Wear 195(1-2) 178-185 (Jul 1996), 12A943

292Y. Computational techniques

Ceramic tribology in Japan, Trib Int 29(1) 1-6 (Feb 1995), 1A574
Tribology - The last 25 years: A personal view, Trib Int 28(1) 7-10 (Feb 1995), 1A940
Frictional contact analysis of composite materials, Composites Sci Tech 54(4) 341-348 (1995), 3A517
Block pivot methods for solving frictional contact problems, Acta Mech Sinica 11(1) 51-58 (1995), 3A836
Gauss-Seidel type solver for special convex programs, with application to frictional contact mechanics, J Optim Theory Appl 87(1) 47-67 (Oct 1995), 3T837
Finite element-mathematical programming method for elastoplastic contact problems with friction, Finite Elements Anal Des 20(4) 273-282 (Sep 1995), 4A459
Frictional contact element for strongly curved contact problems, Int J Numer Methods Eng 39(1) 165-184 (Jan 1996), 5A412
Approximate formula for wear of ball reducer parts, J Friction Wear 16(2) 39-44 (1995), 6A830
Calculation of the limiting friction force for a plug-wise sliding in a rhomboic extrusion die channel, J Friction Wear 16(2) 45-49 (1995), 6A831
Surface uplift and wear implications of zirconia toughened ceramics, Int J Mech Sci 38(3) 233-245 (Mar 1996), 6A832
Computational study of contact mechanics between magnetic recording heads and thin-film disks, Trib Trans 39(2) 490-494 (Apr 1996), 8A792
Numerical model for the dry sliding contact of layered elastic bodies with rough surfaces, Trib Trans 39(2) 416-424 (Apr 1996), 8T797
Finite element model comparison of ball and roller bullgears, Trib Trans 39(2) 286-295 (Apr 1996), 8A800
No-sense ray solution in programming method for contact analysis (Chinese), J Dalian Univ Tech 35(4) 468-472 (Aug 1995), 8A801
Data-fitted rolling bearing life prediction model - Part III: Parametric study, comparison to published models and engineering review, Trib Trans 39(2) 269-275 (Apr 1996), 8T814
Steady-state and transient dynamic simulation of a continuous foil bearing, Trib Trans 39(2) 322-329 (Apr 1996), 8T819
Model reduction of Coulomb friction damped systems using singular perturbation theory, J Dyn Syst Meas Control 118(1) 84-91 (Mar 1996), 9A979
Numerical modeling and simulation of frictional contact using a generalized Coulomb law, Eng Comput 12(7) 641-656 (Oct 1995), 9A993
Heat conditions in friction braking, Mech Solids 30(6) 65-72 (1995), 10A966
Comparison and experimental verification of two techniques for friction force representation, Comput Struct 60(1) 11-19 (Jul 1996), 11A812
Numerical method for friction problems with multiple contacts, J Austral Math Soc B 37(3) 288-308 (Jan 1996), 11A813
Assessment of temporal integration schemes for the sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, Comput Methods Appl Mech Eng 130(3-4) 369-393 (Apr 1996), 12A944
Formulation and approximation of quasistatic frictional contact, Int J Eng Sci 34(7) 783-798 (May 1996), 12A945

292Z. Experimental techniques

Ceramic tribology in Japan, Trib Int 29(1) 1-6 (Feb 1995), 1A574
Tribology - The last 25 years: A personal view, Trib Int 28(1) 7-10 (Feb 1995), 1A940
Reconstruction of contact pressures between flexible objects and rigid planes using friction data, Appl Math Model 19(10) 578-582 (Oct 1995), 2A807
Microtribological applications of probe microscopy, Trib Int 28(3) 195-202 (May 1995), 3A838
Electronic contributions to sliding friction, Trib Letters 1(2-3) 211-218 (Nov 1995), 4A841
Laboratory testing of displacement and load induced fretting, Trib Int 28(5) 269-278 (Aug 1995), 4T844
Friction force microscopy as a probe of molecular relaxation on polymer surfaces, Trib Letters 1(2-3) 253-264 (Nov 1995), 4A847
Scanning conduction microscopic method for probing abrasion of insulating thin films, Trib Letters 1(2-3) 159-175 (Nov 1995), 4A848
Investigation into relationship between friction behavior and plastic deformation using a newly devised rolling-type tribometer, J Trib 117(3) 529-533 (Jul 1995), 5A774
Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, J Trib 117(4) 612-616 (Oct 1995), 5T789
Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler, Wear 190(1) 76-88 (Nov 1995), 5A797
High temperature friction and wear testing of silicon nitride ceramics, Trib Int 28(6) 403-413 (Sep 1995), 5T809
Evaluation of friction torque and heat quantity generated in spindel (2nd Report): Influence of design parameters upon heat quantity evaluated with an improved measuring system (Japanese), J Japan Soc Precision Eng 61(11) 1584-1588 (Nov 1995), 5A812
Friction and wear studies of various head materials and magnetic tapes in a linear mode accelerated test using a new nano-scratch wear measurement technique, Wear 190(1) 1-15 (Nov 1995), 5A813
Pole tip recession: Investigation of factors affecting its measurement and its variation with contact start-stop and constant speed drag testing, J Trib 117(4) 580-587 (Oct 1995), 5A814
Pressure-shear plate impact experiment for investigating transient friction, Exp Mech 35(4) 329-336 (Dec 1995), 5A815
Study of lubricated impact using optical interferometry, Wear 190(2) 184-189 (Dec 1995), 5A816
Limitations of thin film microtransducers in highly loaded contacts, Trib Int 28(8) 517-521 (Dec 1995), 6T799
Asperity-asperity friction as measured by a two-ball collision apparatus, Trib Trans 39(1) 33-42 (Jan 1996), 6A833
Experimental study of metallic contact spots formation, J Elast 41(1) 50-55 (1995), 6A834
New approach to evaluate the deflection of a thrust pad on an elastic support, Trib Int 28(7) 439-444 (Nov 1995), 6T835
New tribological test for candidate brush seal materials evaluation, Trib Trans 39(1) 173-179 (Jan 1996), 6T836
Research of non-wear effect in material system: Steel-brass-glycerine (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 399-405 (1995), 6A837
Three dimensional characteristic of surface micro-geometry in tribology (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 347-353 (1995), 6A838
Tribological characterization of thin hard coatings by reciprocating sliding tests, Trib Letters 1(4) 265-276 (Dec 1995), 6T839
Tribological properties of aluminum alloys with reinforcing phase (Polish), Zagadnienia Eksploatacji Maszyn 30(3) 433-442 (1995), 6A840
Elasticity of nanoindentation, Japan J Trib 40(3) 129-138 (1995), 7T1003
In-process measurement of wear of abrasive grain - 2nd Report: Binary image-acquisition system for wear flat of cutting edge (Japanese), J Japan Soc Precision Eng 61(12) 1735-1739 (Dec 1995), 7A1004
Microhardness testing using AFM and SEM, Japan J Trib 40(3) 160-169 (1995), 7T1005
Magnetic flux density distribution on the track surface of rolling-element bearings: An experimental and theoretical investigation, Trib Trans 39(2) 386-391 (Apr 1996), 8A787
Infrared and visual study of the mechanisms of scuffing, Trib Trans 39(2) 441-447 (Apr 1996), 8A796
Data-fitted rolling bearing life prediction model - Part II: Model fit to the historical experimental data-base, Trib Trans 39(2) 259-268 (Apr 1996), 8T813
Data-fitted rolling bearing life prediction model - Part III: Parametric study, comparison to published models and engineering review, Trib Trans 39(2) 269-275 (Apr 1996), 8T814
Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, Arch Naukio Mat 16(3) 185-197 (1995), 9A563
Nondestructive evaluation of corrosion by fractal geometry, Res Nondestructive Eval 7(4) 229-238 (1996), 10A762
Calibration procedures for frictional measurements with a lateral force microscope, Wear 192(1-2) 141-150 (Mar 1996), 10A1001
Micro-scale abrasive wear testing of PVD coatings on curved substrates, Trib Letters 2(1) 1-11 (Mar 1996), 10T1002
New Method of investigating piston ring friction under firing conditions, Proc Inst Mech Eng D 210(D2) 179-182 (1996), 10A1003
Analysis of moisture adsorbed on surface, Japan J Trib 40(6) 529-537 (1995), 12T946
Measurement of friction and material flow-stress by a plane-strain compression tribometer, J Mat Processing Tech 57(3-4) 345-350 (Feb 1996), 12A947
Measurement of surface finish using an optical diffraction technique, Wear 195(1-2) 148-151 (Jul 1996), 12A948

294. MACHINE ELEMENTS

294B. Belts, chains, and cables

Tension distribution in multiple V-belt drives, Mech Machine Theory 30(8) 1279-1294 (Nov 1995), 2A810
Spring suspended corrugated membranes, J Micromech Microeng 5(4) 289-296 (Dec 1995), 6T351
Effects of start-up transient loads on shoe bearings for large hydraulic pump-turbines, Trib Trans 39(1) 93-98 (Jan 1996), 6A1025
Qualitative-quantitative approach to V-belt mechanics, J Mech Des 118(1) 15-21 (Mar 1996), 8A802
Axial force test and modeling of the V-belt continuously variable transmission for mopeds, J Mech Des 118(2) 266-273 (Jun 1996), 12A949
Complex modal analysis of a flat belt pulley system with belt damping and Coulomb-damped tensioner, J Mech Des 118(2) 306-311 (Jun 1996), 12A950

294C. Cams

Machining and on-line measurement of spatial cams on four-axis machine tools, Int J Machine Tools Manuf 36(1) 89-101 (Jan 1996), 3A623
Study on evaluation of circularity and related features for eccentric cam shaft - 2nd report: Measured results and discussion, Int J Japan Soc Precision Eng 29(2) 150-155 (Jun 1995), 3A839
Recording and processing of planar curve using clothoids (2nd Report): Recording of cam profile with clothoidal interpolation (Japanese), J Japan Soc Precision Eng 61(10) 1475-1479 (Oct 1995), 4A849
Modeling of a finger-follower cam system with verification in contact forces, J Mech Des 118(1) 132-137 (Mar 1996), 8A803
Synthesis of follower motions of camoids using nonparametric B-splines, J Mech Des 118(1) 138-143 (Mar 1996), 8A804
Optimum design of cam mechanisms with oscillating flat-face followers, Mech Res Commun 23(2) 181-187 (Apr 1996), 8A835
Experimental study of the effects of cam speeds on cam-follower systems, Mech Machine Theory 31(4) 397-412 (May 1996), 9A994
Separation phenomena in force closed cam mechanisms, Mech Machine Theory 31(4) 487-499 (May 1996), 9A995
Mechanical Design Handbook (McGraw-Hill, New York, 1996) 10N22
General approach to the determination of planar and spatial cam profiles, J Mech Des 118(2) 259-265 (Jun 1996), 12A951
Geometry design of globoidal cams with generalized meshing turret-rollers, J Mech Des 118(2) 243-249 (Jun 1996), 12A952
Modular structure of spatial cam-linkage mechanism, Mech Machine Theory 31(6) 813-819 (Aug 1996), 12A953
Variable-speed method for improving motion characteristics of cam-follower systems, J Mech Des 118(2) 250-258 (Jun 1996), 12A954

294D. Springs, dampers

Eccentric operation and blade-loss simulation of a rigid rotor supported by an improved squeeze film damper, J Trib 117(3) 490-497 (Jul 1995), 5A817
Wear resistance of rail and wheel steels, J Friction Wear 16(1) 56-64 (1995), 5A818
Design procedure for evaluating stability of turbomachinery supported on squeeze film dampers, J Trib 117(4) 742-747 (Oct 1995), 5T1025
Enhancement of internal damping of pneumatic springs of vibration isolation systems by means of introduction of negative-stiffness elements, J Machinery Manuf Reliab 3 20-24 (1995), 6A335
Analysis of foil journal bearings with backing springs, Trib Trans 39(1) 208-214 (Jan 1996), 6T846
Seismic study of buildings with viscoelastic dampers, Struct Eng and Mech 3(6) 569-581 (Nov 1995), 8A158
Accuracy of rolling bearing fatigue life prediction, J Trib 118(2) 297-310 (Apr 1996), 10A1006
Study on strength characteristics of Si_3N_4 coil springs, Fatigue Fracture Eng Mat Struct 19(5) 529-537 (1996), 11A814

294E. Couplings

Circuit actions attributable to active couplings, Mech Machine Theory 30(7) 1001-1012 (Oct 1995), 2A811
Couplings, coupling networks and their graphs, Mech Machine Theory 30(7) 991-1000 (Oct 1995), 2A812
Recent developments in the tribology of artificial joints, Trib Int 28(7) 485-495 (Nov 1995), 6A841
Resonant beahvior of a drive system with silentblock coupling, Machine Dyn Prob 13 69-79 (1995), 9A225
Accuracy of rolling bearing fatigue life prediction, J Trib 118(2) 297-310 (Apr 1996), 10A1006
Unified nonlinear elastic frame analysis, Comput Struct 60(1) 21-30 (Jul 1996), 11A815

294F. Brakes

Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, Int J Vehicle Des 16(6) 542-555 (1995), 2A131
Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, Int J Vehicle Des 16(6) 556-569 (1995), 2A132
Investigation of anti-lock braking strategies for heavy goods vehicles, Proc Inst Mech Eng D 209(D4) 263-271 (1995), 4A850
Study of brake blocks made of improved composite frictional materials, J Friction Wear 16(1) 75-78 (1995), 5A819
Development of hybrid rail brake, Proc Inst Mech Eng F 209(F2) 61-65 (1995), 6A842
Noise and vibration analysis of an S-cam drum brake, Proc Inst Mech Eng D 210(D1) 35-43 (1996), 7A203
Band brake squeal, J Vib Acoust 118(2) 190-197 (Apr 1996), 10A1004

294G. Gears, gear trains, drives

Computerized determination of curvature relations and contact ellipse for conjugate surfaces, Comput Methods Appl Mech Eng 125(1-4) 151-170 (Sep 1995), 1A941
Linear dynamic analysis of multimesh transmissions containing external, rigid gears, J Sound Vib 185(1) 1-32 (Aug 1995), 1A942
Kinematic analysis of a gearless articulated speed reducer, Mech Res Commun 22(5) 415-429 (Oct 1995), 2T65
Dynamic analysis of a nonlinear discrete-continuous torsional system by means of wave method, Z Angew Math Mech 75(9) 691-698 (1995), 2A91
Computerized design of low-noise face-milled spiral bevel gears, Mech Machine Theory 30(8) 1171-1178 (Nov 1995), 2A813
Analytical determination and computer investigation of loading distribution of drives of an armoured face conveyor with different number chain sprockets' teeth (Polish), Arch Gornictwa 40(2) 221-236 (1995), 3A840
Diagnostics of high power toothed gears: A new proposal, Machine Dyn Prob 10 53-63 (1995), 3A841
Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), J Vib Eng 8(3) 198-203 (Sep 1995), 4A393
Computerized design and generation of double circular-arc helical gears with low transmission errors, Comput Methods Appl Mech Eng 127(1-4) 57-86 (Nov 1995), 4A851
Investigation into objective measures of gear-shift quality, Proc Inst Mech Eng D 209(D4) 273-279 (1995), 4A852
Decomposition of gear motion signals and its application to gearbox diagnostics, J Vib Acoust 117(3(A)) 363-369 (Jul 1995), 5A820
Initial temperature evaluation for flash temperature index of gear tooth, J Trib 117(3) 476-481 (Jul 1995), 5T821
Non-contact measurement of a gear (4th Report): Development of a measuring system for tooth profiles using the optical 2 point method (Japanese), J Japan Soc Precision Eng 61(11) 1589-1593 (Nov 1995), 5T822
Simulation on the rotational vibration of helical gears in consideration of the tooth separation phenomenon: A new stiffness function of helical involute tooth pair, J Mech Des 117(3) 460-469 (Sep 1995), 5A823
Discrete optimal design formulations with application to gear train design, J Mech Des 117(3) 419-424 (Sep 1995), 5A847
Machine Design: An Integrated Approach (Prentice Hall, Upper Saddle River, NJ, 1996) 6R15
Effect of worm gear geometry on its contact properties, Trib Trans 39(1) 139-147 (Jan 1996), 6T843
Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, JSME Int J Ser C 38(4) 772-777 (Dec 1995), 6A844
Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, JSME Int J Ser C 38(4) 778-782 (Dec 1995), 6A845
Coupled torsional-lateral-axial vibration analysis of a geared shaft system using substructure synthesis, Mech Machine Theory 31(3) 345-352 (Apr 1996), 7A202
Gearings with intersecting axes and a helical motion of the driven gear-wheel, J Machinery Manuf Reliab 4 20-27 (1995), 7A1006

Impact of the kinematic precision of a gearing on the machine unit vibration activity, J Machinery Manuf Reliab 4 28-32 (1995), 7A1607
Magnitude of the losses in the steel pushing V-belt continuously variable transmission, Proc Inst Mech Eng D 210(D1) 57-62 (1996), 7A1008
Mathematical model and bearing contacts of the ZK-type worm gear set by oversize hob cutters, Mech Machine Theory 31(3) 271-282 (Apr 1996), 7A1009
Note on tip relief and backlash allowances in non-metallic gears, Proc Inst Mech Eng C 209(C6) 383-388 (1995), 7A1010
Vibration signature analysis of a faulted gear transmission system, J Propulsion Power 12(2) 289-295 (Apr 1996), 8A154
Dynamic load analysis of spur gears using a new tooth profile, J Mech Des 118(1) 1-6 (Mar 1996), 8A805
Dynamic response of planetary trains to mesh parametric excitations, J Mech Des 118(1) 7-14 (Mar 1996), 8A806
New method of measuring involute profile deviations of gear teeth, Proc Inst Mech Eng C 210(C1) 63-67 (1996), 8A807
Spur, helical, and spiral bevel transmission life modeling, J Propulsion Power 12(2) 283-288 (Apr 1996), 8A808
Kinematic design of differential devices for full time four-wheel-drive vehicles, Int J Vehicle Des 17(2) 182-197 (1996), 8A823
Resonant beahvior of a drive system with silentblock coupling, Machine Dyn Prob 13 69-79 (1995), 9A325
Modeling and control of backlash in the drive mechanism of a radially rotating compliant beam, J Dyn Syst Meas Control 118(1) 158-161 (Mar 1996), 9A427
Effects of surface treatment on the bending-fatigue strength of carburized spur gears, JSME Int J Ser C 39(1) 108-114 (Mar 1996), 9A755
Design, construction and instrumentation of a machine to measure tension and impact forces in roller chain drives, Mech Machine Theory 31(4) 525-531 (May 1996), 9A996
Experimental investigation of link tension and roller-sprocket impact in roller chain drives, Mech Machine Theory 31(4) 533-544 (May 1996), 9A997
Method for inspection of spiral bevel gears in Klingelnberg cyclo-palloid system, JSME Int J Ser C 39(1) 102-107 (Mar 1996), 9A998
Minimum tooth difference in internal-external involute gear pair, Mech Machine Theory 31(4) 475-485 (May 1996), 9A999
Mechanical Design Handbook (McGraw-Hill, New York, 1996) 10N22
Mathematical model for analyzing the influence of shape deviations and mounting errors on gear dynamic behavior, J Sound Vib 191(5) 629-660 (Apr 1996), 10A1005
Calculation of elastic deformation of the elements of a wave gearing, J Machinery Manuf Reliab 6 23-27 (1995), 10A1031
Damage gear detection by magnitude and phase demodulation (French), Rev Francaise Mec 0(1) 5-12 (1996), 11A657
Morphological study of vibration signals: Identification of spur and helical gear faults (French), Rev Francaise Mec 0(1) 33-40 (1996), 11A658
Computational modeling of stress at conical contact with ultra fine teeth (Polish), Strojnicky Casopis 47(1) 31-43 (1996), 11A816
Summation of creating small-sized manual winches with planetary drive, Russian Aeronaut 38(3) 69-74 (1995), 11A817
Computer simulation to predict stresses, working pressures, and deformation modes in incremental forging of spur gear forms, Int J Mech Sci 38(8-9) 871-889 (Sep 1996), 12A678
Near-net shape forging of spur gear forms: An analysis and some experiments, Int J Mech Sci 38(8-9) 891-916 (Sep 1996), 12A681
Fatigue test and reliability design of gears, Int J Fatigue 18(3) 171-177 (Apr 1996), 12A729
Analysis of a nonuniform loading across the width of the teeth, J Machinery Manuf Reliab 1 65-67 (1996), 12T955
Friction and wear characteristics of gears in high vacuum, JSME Int J Ser C 39(2) 340-346 (Jun 1996), 12A956
Mathematical model of a time and position variant external load on a gear tooth using the modified Timoshenko beam equation, Int J Numer Methods Eng 39(12) 2073-2094 (Jun 1996), 12A957
Model of vibration excitation in a spur mesh, J Machinery Manuf Reliab 1 17-26 (1996), 12T958
Spatial bending of a system of annular elements of the radial chain of a wave gearing, J Machinery Manuf Reliab 1 60-64 (1996), 12A959
Optimal design of involute profile helical gears, Mech Machine Theory 31(6) 717-728 (Aug 1996), 12A975

294H. Bearings

Elimination of periodic coefficients from the equations of motion of asymmetric shafts in anisotropic bearings, Arch Appl Mech 65(6) 415-424 (Jul 1995), 1A600
Chaotic vibration of a journal-bearing system, J Theor Appl Mech 33(3) 627-641 (1995), 1A943
Model for the effect of roughness on the load capacity of journal bearings, Quart Appl Math 53(3) 563-573 (Sep 1995), 1A944
Analysis of a grease-lubricated roller bearing under arctic conditions, Proc Inst Mech Eng J: Eng Trib 209(J3) 213-220 (1995), 1T1147
Effect of cleanliness on the attainable bearing life in aerospace applications, Trib Trans 38(4) 851-856 (Oct 1995), 2T814
Effect of damping on the stability of a FE model of a flexible non-axisymmetric rotor on tilting pad bearings, J Sound Vib 185(5) 809-825 (Sep 1995), 2A815
Nonlinear elastic deformations and stability of laminated rubber bearings, J Eng Mech 121(10) 1041-1048 (Oct 1995), 2A816
Temperature distribution and thermal distortion due to frictional heating in a dry shaft-bush tribosystem using the FEM, Int J Mech Sci 37(9) 1021-1034 (Sep 1995), 2A817
Aerostatic Bearings (Japanese), J Japan Soc Precision Eng 61(9) 1243-1246 (Sep 1995), 3T842
Hydrodynamic bearings (Japanese), J Japan Soc Precision Eng 61(9) 1247-1250 (Sep 1995), 3T843
Structure of superconducting magnetic bearings and its applications (Japanese), J Japan Soc Precision Eng 61(9) 1251-1254 (Sep 1995), 3T844
Model and a feature parameter usod in diagnosis of early defects in rolling element bearings (Chinese), J Vib Eng 8(3) 191-197 (Sep 1995), 4A391
Dynamic behavior of tilting-pad journal bearings, Proc Inst Mech Eng J: Eng Trib 209(J4) 275-285 (1995), 4A853
Dynamic simulation of the conforming shell gas journal bearing, J Eng Math 29(6) 557-574 (Nov 1995), 4A854
Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, J Trib 117(3) 379-384 (Jul 1995), 5A82
Modeling fluid inertia forces of short journal bearings for rotordynamic applications, J Vib Acoust 117(4) 462-469 (Oct 1995), 5A160
Stability of magnetic bearing-rotor systems having a central support backup bearing, J Dyn Syst Meas Control 117(3) 277-282 (Sep 1995), 5A545
Design optimization of the taper-flat slider positioned by a rotary actuator, J Trib 117(4) 588-593 (Oct 1995), 5A824
Development and adoption of new high-strength babbitts for rolling stock sliding bearings, J Friction Wear 16(1) 53-55 (1995), 5T825
Dynamically loaded journal bearings: Position of maximum pressure ratio, J Trib 117(3) 558-560 (Jul 1995), 5T826
Experimental analysis of journal bearings, J Eng Gas Turbines Power 117(3) 589-592 (Jul 1995), 5A827
Experimental identification of linearized oil film coefficients of cylindrical and tilting pad bearings, J Eng Gas Turbines Power 117(3) 593-599 (Jul 1995), 5A828
Lyapunov's stability of nonlinear misaligned journal bearings, J Eng Gas Turbines Power 117(3) 576-581 (Jul 1995), 5A829
Magnetic fluid grinding of ceramic balls, Trib Int 28(6) 341-348 (Sep 1995), 5T830
Nonlinear behavior of a magnetic bearing system, J Eng Gas Turbines Power 117(3) 582-588 (Jul 1995), 5A831
Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), J Japan Soc Precision Eng 61(11) 1624-1628 (Nov 1995), 5A832
Simulation of the "crankshaft-bearings-cylinder block supports" tribosystem in internal combustion engines, J Friction Wear 16(1) 30-36 (1995), 5A833
Statistical simulation of the life of rolling bearings, J Machinery Manuf Reliab 2 87-89 (1995), 5T834
Surface characterization of rolling bearing (Japanese), J Japan Soc Precision Eng 61(11) 1525-1528 (Nov 1995), 5T835
Testing evaluation of journal bearings, Exp Tech 19(6) 20-23 (Dec 1995), 5T836
Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part I: The model and perturbation analysis, J Appl Mech 62(3) 674-678 (Sep 1995), 5A837
Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part II: Numerical solution and results, J Appl Mech 62(3) 679-684 (Sep 1995), 5A838
Axial oil film rupture in high speed bearings due to the effect of the centrifugal force, J Trib 117(3) 394-398 (Jul 1995), 5A1083
Clearance shape evolution of a steadily loaded hydrodynamic journal bearing, J Friction Wear 16(1) 49-52 (1995), 5A1089
Dimensionless characteristics of lubricating film in plain bearings design taking into account shaft deviation: Determination, approximation, and limits of applicability, J Friction Wear 16(1) 5-17 (1995), 5A1090
Thermal non-Newtonian EHL analysis of rib-roller end contact in tapered roller bearings, J Trib 117(4) 646-654 (Oct 1995), 5A1101
Analysis of gas-lubricated, multileaf foil journal bearings with backing springs, J Trib 117(3) 437-443 (Jul 1995), 5A1104
Integration of magnetic bearings in the design of advanced gas turbine engines, J Eng Gas Turbines Power 117(4) 655-665 (Oct 1995), 5A1281
Modeling and control of HSFDs for active control of rotor-bearing systems, J Eng Gas Turbines Power 117(4) 757-766 (Oct 1995), 5A1285
Machine Design: An Integrated Approach (Prentice Hall, Upper Saddle River, NJ, 1996) 6R15
Comparison of autoregressive modeling techniques for fault diagnosis of rolling element bearings, Mech Syst Signal Processing 10(1) 1-17 (Jan 1996), 6A703
Effect of increasing mass of crankpin parts on crankshaft bearings wear and engine life, J Friction Wear 16(2) 19-25 (1995), 6A793
New approach to evaluate the deflection of a thrust pad on an elastic support, Trib Int 28(7) 439-444 (Nov 1995), 6T835
Analysis of foil journal bearings with backing springs, Trib Trans 39(1) 208-214 (Jan 1996), 6T846
Effect of roughness on the behavior of squeeze film in a spherical bearing, Trib Trans 39(1) 99-102 (Jan 1996), 6A847
Improvement of wear resistance of crankshaft journals, J Friction Wear 16(2) 132-134 (1995), 6T848
Nonlinear friction-induced vibration in water-lubricated bearings, J Vib and Control 2(1) 87-113 (Feb 1996), 6A849
Topographic features of cylinder liners: An application of 3D characterization techniques, Trib Int 28(7) 453-463 (Nov 1995), 6T851
Complex model for lightly loaded bearings, Trib Trans 39(1) 215-219 (Jan 1996), 6T1043
Static characteristics of high-speed slider bearings lubricated with non-Newtonian fluids: In the case of infinitely long bearings, JSME Int J Ser C 38(4) 765-771 (Dec 1995), 6A1047
Achieving Ultra-Precision by mechatronics: Active air Journal bearing, J Brazilian Soc Mech Sci 17(3) 278-291 (1995), 7A419
Life test of ceramic ball bearings by staircase method, Int J Japan Soc Precision Eng 29(3) 259-260 (Sep 1995), 7T476
Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), J Dalian Univ Tech 35(6) 857-862 (1995), 7A909
Single-axial groove journal bearings: Static characteristics and temperature prediction technique, Proc Inst Mech Eng J: Eng Trib 210(J1) 45-53 (1996), 7T1011
Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), J Japan Soc Precision Eng 62(1) 85-89 (Jan 1996), 7A1012
Magnetic flux density distribution on the track surface of rolling-element bearings: An experimental and theoretical investigation, Trib Trans 39(2) 386-391 (Apr 1996), 8A787
Comparison between three turbulent models: Application to thermohydrodynamic performances of tilting-pad journal bearings, Trib Int 29(1) 11-18 (Feb 1996), 8T809
Comparison of life theories for rolling-element bearings, Trib Trans 39(2) 237-248 (Apr 1996), 8A810
Comparison of life theories for rolling-element bearings, Trib Trans 39(2) 501-503 (Apr 1996), 8T811
Data-fitted rolling bearing life prediction model - Part I: Mathematical model, Trib Trans 39(2) 249-258 (Apr 1996), 8A812
Data-fitted rolling bearing life prediction model - Part II: Model fit to the historical experimental database, Trib Trans 39(2) 259-268 (Apr 1996), 8T813
Data-fitted rolling bearing life prediction model - Part III: Parametric study, comparison to published models and engineering review, Trib Trans 39(2) 269-275 (Apr 1996), 8T814
Hydro-roll: A novel bearing design with superior thermal characteristics, Trib Trans 39(2) 455-461 (Apr 1996), 8A815
Improvement in dynamic characteristics of circular journal bearings by means of longitudinal micro-grooves, Trib Trans 39(2) 462-468 (Apr 1996), 8T816
Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), J Dalian Univ Tech 35(4) 505-510 (Aug 1995), 8A817
Pressure and flow characteristics in a shallow hydrostatic pocket with rounded pocket-land joints, Trib Int 29(1) 69-76 (Feb 1996), 8T818
Steady-state and transient dynamic simulation of a continuous foil bearing, Trib Trans 39(2) 322-329 (Apr 1996), 8T819
Stability of a rotor supported by short slide bearings, Machine Dyn Prob 13 59-68 (1995), 9A226
Mechatronics: Basics, objectives, examples, J Syst Control Eng 210(I1) 1-11 (1996), 9A446
Analysis of a ferrofluid flow in a slot of the curvilinear thrust bearing, Appl Mech Eng 1(1) 25-55 (1995), 9A1000
Evaluation of friction torque of rolling bearing (Japanese), J Japan Soc Precision Eng 62(2) 210-214 (Feb 1996), 9A1001
Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, JSME Int J Ser C 39(1) 123-129 (Mar 1996), 9A1002
Galerkin's method for multilobe conical bearing with an incompressible Newtonian lubricant, Appl Mech Eng 1(1) 57-75 (1995), 9A1003
Resonant characteristics of a rotor-bearing system with the support length taken into account, Machine Dyn Prob 13 47-58 (1995), 9A1004
Ring axially magnetized passive radial magnetic bearing, Appl Mech Eng 1(1) 77-96 (1995), 9A1005
Dynamics of high-speed rotors running in bearings with floating nonrotating bushings, J Machinery Manuf Reliab 5 30-35 (1995), 9A1011
Mechanical Design Handbook (McGraw-Hill, New York, 1996) 10N22
Forward and backward procession of a vertical anisotropically supported rotor, J Sound Vib 192(1) 207-222 (Apr 1996), 10A230
Accuracy of rolling bearing fatigue life prediction, J Trib 118(2) 297-310 (Apr 1996), 10A1006
Correction of the roller generators in spherical roller bearings, Wear 192(1-2) 29-39 (Mar 1996), 10A1007
Diagnosis of the bearing failure in a pilger mill, Shock Vib Digest 28(2) 11-14 (Apr 1996), 10A1008
Effects of partial-grooving on the performance of spiral groove bearings: Analysis using a perturbation method, Trib Int 29(4) 281-290 (Jun 1996), 10T1009
F117-PW-100 hybrid ball bearing ceramic technology insertion, J Eng Gas Turbines Power 118(2) 434-442 (Apr 1996), 10A1010
Hybrid ceramic bearings for difficult applications, J Eng Gas Turbines Power 118(2) 449-452 (Apr 1996), 10A1011
Investigation into the effects of orifice size, offset and overclamp ratio on the lubrication of slipper bearings, Trib Int 29(4) 299-305 (Jun 1996), 10T1012
Mobility analysis of structure-borne noise power flow through bearings in gearbox-like structure, Noise Control Eng J 44(2) 69-78 (Apr 1996), 10A1013
Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, J Eng Gas Turbines Power 118(2) 443-448 (Apr 1996), 10A1014
Rotor whirl in compliant auxiliary bearings, J Vib and Control 2(2) 145-159 (May 1996), 10A1015
Transient response technique applied to active magnetic bearing machinery during rotor drop, J Vib Acoust 118(2) 154-163 (Apr 1996), 10A1016
Tribology in tightening of threaded fastener, Japan J Trib 40(5) 371-381 (1995), 10T1017
Dynamic characteristics of hard disk drive spindle motors: Comparison between ball bearings and hydrodynamic bearings, J Trib 118(2) 402-406 (Apr 1996), 10A1221
Application of asynchronous exciting force fixed in space for dynamic analysis of rotor-bearing systems, Mec Appl 40(1) 81-89 (Feb 1995), 11A818
Application of short bearing theory to analyze the effect of variable permeability on steady state performance of turbulent hydrodynamic porous journal bearings, Indian J Eng Mat Sci 3(2) 57-62 (Apr 1996), 11A819
Dynamic analysis of rotor-bearing systems with an elastic attachment of the rotor to the spinning shaft, Mec Appl 40(1) 55-79 (Feb 1995), 11A820
Thrust cone lubrication - Part 3: A test facility and preliminary measured data, Proc Inst Mech Eng J: Eng Trib 210(J2) 107-112 (1996), 11A821
Estimating the mode of lubrication in standard rolling-contact bearings: Calculation of roller bearings, Russian Aeronaut 38(3) 51-55 (1995), 11A1080
Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, Nonlinear Dyn 10(2) 175-185 (Jun 1996), 12A123
Contact problem of a ball and an elliptic race in the case of a two-point initial touch, J Machinery Manuf Reliab 1 41-44 (1996), 12T960
Parametric study of stress sources in journal bearings, Int J Mech Sci 38(8-9) 1001-1015 (Sep 1996), 12A961
Stability of symmetrical rotor supported in flexibly mounted, self-acting gas journal bearings, Wear 194(1-2) 190-197 (Jun 1996), 12A962
Using the correlation dimension for vibration fault diagnosis of rolling element bearings - I: Basic concepts, Mech Syst Signal Processing 10(3) 241-250 (May 1996), 12A963
Using the correlation dimension for vibration fault diagnosis of rolling element bearings - II: Selection of experimental parameters, Mech Syst Signal Processing 10(3) 251-264 (May 1996), 12A964

294I. Gaskets, seals, etc

Finite element solution of the torsion equations for radial lip seals, Trib Trans 38(4) 781-790 (Oct 1995), 2A818
Numerical study of two-phase mechanical seal stability, Trib Trans 38(4) 791-800 (Oct 1995), 2A819
Wear resistance of cast-iron piston rings produced by continuous-cyclic casting, J Friction Wear 16(1) 113-117 (1995), 5A839
New tribological test for candidate brush seal materials evaluation, Trib Trans 39(1) 173-179 (Jan 1996), 6T836
Model developments for the brush seal numerical simulation, J Propulsion Power 12(1) 193-201 (Feb 1995), 6A850
Topographic features of cylinder liners: An application of 3D characterization techniques, Trib Int 28(7) 453-463 (Nov 1995), 6T851
Critical balance ratio of mechanical seals, Trib Trans 39(2) 495-497 (Apr 1996), 8T820
Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, Trib Trans 39(2) 398-406 (Apr 1996), 8A821
Extended three-control-volume theory for circumferentially-grooved liquid seals, J Trib 118(2) 276-285 (Apr 1996), 10A1018
Two-control volume model and dynamic characteristics research for labyrinth seal (Chinese), J Vib Eng 9(1) 24-30 (Mar 1996), 10A1019
Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, J Trib 118(2) 266-275 (Apr 1996), 10A1020
Elastohydrodynamic model of the rotary lip seal, J Trib 118(2) 292-296 (Apr 1996), 10A1225
Accuracy of the isoviscous solution of the Reynolds equation in mechanical seals, Proc Inst Mech Eng J: Eng Trib 210(J2) 153-156 (1996), 11A822
Periodic thermal deformation of large seal ring, JSME Int J Ser C 39(2) 347-355 (Jun 1996), 12A965

294J. Linkages

Principles of the construction and analysis of spartial parallel-structure mechanisms, J Machinery Manuf Reliab 1 10-15 (1995), 3A845
Spherical four-bar linkages with symmetrical coupler-curves, Mech Machine Theory 31(1) 1-10 (Jan 1996), 4A855
Finite element formulation of a flexible slider crank mechanism using local coordinates, J Dyn Syst Meas Control 117(3) 329-335 (Sep 1995), 5A10
Classification and branch identification of Stephenson six-bar chains, Mech Machine Theory 31(3) 283-295 (Apr 1996), 7A1013
Five-parameter synthesis of a four-link spherical mechanism, J Machinery Manuf Reliab 4 14-19 (1995), 7A1014
Interference-drive of a 3 dof joint based on the cable-controlled mechanism (Japanese), J Japan Soc Precision Eng 61(12) 1690-1694 (Dec 1995), 7A1021
Analysis and simulation expert system of planar link mechanism based on variational geometry (Chinese), J Dalian Univ Tech 35(2) 186-191 (Apr 1995), 8A340
Explicit determination of the position functions of complex mechanism links, J Machinery Manuf Reliab 5 6-12 (1995), 9A1021
Method for identifying the structural diagrams of linkages, J Machinery Manuf Reliab 5 13-17 (1995), 9A1023
Parametric pulses during shockless reversals in linkage clearances, J Machinery Manuf Reliab 5 18-24 (1995), 9A1026
Optimum design of flexible multibody systems with dynamic behavior constraints, Eur J Mech A 15(2) 351-359 (1996), 10A1028
Recursive formulations of a flexible multibody system by the method of weighted residual, JSME Int J Ser C 39(2) 257-264 (Jun 1996), 12A446
Double crank RSSR mechanism with constant transmission angle, Forschung Ingenieur 62(3) 146-148 (May 1996), 12A966
Finite dynamic element analysis for high-speed flexible linkage mechanisms, Comput Struct 60(5) 787-796 (Jul 1996), 12A967
Formulation of elevator door equation of motion, JSME Int J Ser C 39(2) 279-285 (Jun 1996), 12A968
Position analysis of planar linkages using the method of modification of kinematic units, Mech Machine Theory 31(6) 831-838 (Aug 1996), 12A969
Equilibrium positions of mechanisms and methods for their determination, J Machinery Manuf Reliab 1 8-12 (1996), 12A977

294L. Hydraulic and pneumatic mechanisms

Characterization of automotive shock absorbers using random excitation, Proc Inst Mech Eng D 209(D4) 239-248 (1995), 4A222
Modeling the dynamic behavior of a motorcycle damper, Proc Inst Mech Eng D 209(D4) 249-262 (1995), 4A223
Enhancement of pressurizer safety valve operability by seating design improvement, J Pressure Vessel Tech 117(3) 279-282 (Aug 1995), 5A840
Technique for designing vane pneumatic drives, J Machinery Manuf Reliab 2 22-27 (1995), 5A841
Study of planar orbiting mechanism and its application to scroll fluid machinery, Mech Machine Theory 31(5) 705-716 (Jul 1996), 11A1038

294M. Hoisting devices

Lead sway control of overhead cranes with load hoisting via stability analysis, JSME Int J Ser C 39(1) 34-40 (Mar 1996), 9A1006

294P. Other mechanisms (incl micromechanisms)

Twist drill deformation and optimum drill geometry, Comput Struct 57(5) 903-914 (Dec 1995), 2A820
Variable stroke piston mechanism for spark ignition engines, Int J Vehicle Des 16(6) 570-580 (1995), 2A1191
Three-dimensional surface characterization by 2D autoregressive models, J Trib 117(3) 385-393 (Jul 1995), 5A384
Modeling of a controlled pneumatic swing-plug train door, Proc Inst Mech Eng F 209(F2) 87-92 (1995), 6A852
Simulation and Design of Microsystems and Microstructures - Proc of 1st Int Conf, Southampton, UK, Sept 1995 (Comput Mech, Billerica MA, 1995) 8N20
Piston assembly design for improved thermal-tribological performance, Trib Trans 39(2) 483-489 (Apr 1996), 8A822
Control over technological machines based on closed mechanisms of relative manipulation, J Machinery Manuf Reliab 5 82-88 (1995), 9A1007
Vibration characteristics and comparisons of automotive engine valves made from conventional and non-conventional materials, J Sound Vib 191(5) 986-992 (Apr 1996), 10T1021
Optimization of rotary effectors of a modular system for performing a set of operations, J Machinery Manuf Reliab 6 1-6 (1995), 10A1027
Effect of lubricating oils on piston ring friction and scuffing, Japan J Trib 40(5) 437-449 (1995), 10A1386
Surface-micromachined components for articulated microrobots, J Microelectromechanical Syst 5(1) 10-17 (Mar 1996), 11A361
Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, JSME Int J Ser C 39(2) 365-370 (Jun 1996), 12A970

294Y. Computational techniques

Numerical study of two-phase mechanical seal stability, Trib Trans 38(4) 791-800 (Oct 1995), 2A819
Low-energy components of vibroacoustic signal as the basis for diagnosis of defect formation, Machine Dyn Prob 12 7-126 (1995), 3A846
Stress concentration factor in collar and shouldered shafts in torsion, Eng Anal Boundary Elements 16(1) 71-77 (1995), 5A842
Torsion of shafts of keyedless joints, Appl Mech Eng 1(1) 97-116 (1995), 9A1008
Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, J Eng Gas Turbines Power 118(2) 443-448 (Apr 1996), 10A1014

296. MACHINE DESIGN

296B. Synthesis and design

50th Anniversary of the Design Engineering Division (ASME Press, New York, 1995) 1N20
Parametric synthesis of mechanisms with allowance for sliding friction, J Machinery Manuf Reliab 1 16-22 (1995), 3A847
Synthesis of the mechanical diagrams of crank-and-rocker mechanisms by the rocker amplitude angle and the cyclogram asymmetry angle, J Machinery Manuf Reliab 1 23-27 (1995), 3T848
Design of ejectors for deep hole machining, Int J Machine Tools Manuf 36(2) 155-171 (Feb 1996), 4A635
Isotropic design of two general classes of planar parallel manipulators, J Robotic Syst 12(12) 795-805 (Dec 1995), 4A856
Railgun pellet injection system for fusion experimental devices, Fusion Eng Des 30(4) 373-383 (Nov 1995), 4T857
Technique for designing vane pneumatic drives, J Machinery Manuf Reliab 2 22-27 (1995), 5A841
Design methodology for self-maintenance machines, J Mech Des 117(3) 355-362 (Sep 1995), 5A843
Machine Design: An Integrated Approach (Prentice Hall, Upper Saddle River, NJ, 1996) 6R15
Five-parameter synthesis of a four-link spherical mechanism, J Machinery Manuf Reliab 4 14-19 (1995), 7A1014
Multi level approach to synthesis of planar mechanisms, Nonlinear Dyn 9(1-2) 131-146 (Feb 1996), 7A1015
Vehicle handling design process using DOE, Int J Vehicle Des 17(1) 40-54 (1996), 8A335
Kinematic design of differential devices for full time four-wheel-drive vehicles, Int J Vehicle Des 17(2) 182-197 (1996), 8A823
Synthesis of spatially and intrinsically constrained curves using simulated annealing, J Mech Des 118(1) 53-61 (Mar 1996), 8A824
Tolerance analysis for sheet metal assemblies, J Mech Des 118(1) 62-67 (Mar 1996), 8A825
Computer simulation of the creative procedures used in synthesizing novel antivibration systems, J Machinery Manuf Reliab 5 75-81 (1995), 9A1009
Formation of kinematic and dynamic parameters of variable-structure mechanisms in a transient mode, J Machinery Manuf Reliab 5 25-29 (1995), 9A1010
Introduction to Dynamic Systems Modeling for Design (Prentice-Hall, Englewood Cliffs NJ, 1994) 10R17
Spatial dimensional analysis of the radial clearances between cylindrical surfaces, J Machinery Manuf Reliab 6 50-54 (1995), 10T1022
Dynamic model of a machine aggregate with regulated diesel drive, mechanical and regulated hydrostatic transmission mechanism (Polish), Strojnicky Casopis 47(1) 20-30 (1996), 11A823
Standard Handbook of Machine Design, Second Edition (McGraw-Hill, New York, 1996) 12N34

296C. Balancing

Balancing of spatial leverages, J Machinery Manuf Reliab 2 28-34 (1995), 5A844
Dynamics of high-speed rotors running in bearings with floating nonrotating bushings, J Machinery Manuf Reliab 5 30-35 (1995), 9A1011
Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, Nonlinear Dyn 10(2) 175-185 (Jun 1996), 12A123

296D. Computer aided design (CAD)

Generation of free-form surface in CAD for dies (Japanese), J Japan Soc Precision Eng 61(8) 1087-1091 (Aug 1995), 2A821
3D measurement and CAD, Int J Japan Soc Precision Eng 29(2) 113-116 (Jun 1995), 3A849
Determination of the optimum blank shape when deep drawing nonaxisymmetric cups, using a FEM: Simplified determination of optimum blank shape and limiting drawing ratio by inverse FE procedure, JSME Int J Ser A 38(4) 473-479 (Oct 1995), 3A851
Precision alignment technique for parts having thin features using measurement feedback iterative method in CAD-CAI environment, Int J Machine Tools Manuf 36(2) 217-227 (Feb 1996), 4A417
Feature-based modeling approaches for integrated manufacturing: State-of-the-art survey and future research directions, Int J Comput Integrated Manuf 8(5) 411-440 (Dec 1995), 4A421
Decomposing solid models into depression and protrusion features, Int J Comput Integrated Manuf 8(5) 393-398 (Dec 1995), 4A858
Simulation and computer-aided kinematic design of three-dof spherical parallel manipulators, J Robotic Syst 12(12) 857-869 (Dec 1995), 4A859
Cyclides in geometric modeling: Computational tools for an algorithmic infrastructure, J Mech Des 117(3) 363-373 (Sep 1995), 5A845
Polygon-to-object boundary clipping in object space for hidden surface removal in CAD, J Mech Des 117(3) 374-389 (Sep 1995), 5A846
Curvature sensing: A new concept in tracing technology, J Mat Processing Tech 54(1-4) 218-223 (Oct 1995), 6A375
Disassembly path generation to verify the assemblability of mechanical products, JSME Int J Ser C 38(4) 805-810 (Dec 1995), 6A853
Generating solid models from 2D representations, J Mat Processing Tech 54(1-4) 211-217 (Oct 1995), 6A854
Research on itegrated system of casting technology CAD and numerical simulation (Chinese), J Dalian Univ Tech 35(6) 819-823 (1995), 7A757
Multi level approach to synthesis of planar mechanisms, Nonlinear Dyn 9(1-2) 131-146 (Feb 1996), 7A1015
Automatic construction of CSG solids from a single isometric drawing, Int J Comput Integrated Manuf 9(1) 1-21 (Feb 1996), 7A1016
Analysis of design methodologies towards developing a CAD system to computerize the product design conception stage (Spanish), J Brazilian Soc Mech Sci 17(4) 387-393 (1995), 8A826
Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), J Dalian Univ Tech 35(5) 673-677 (Oct 1995), 8A827
Principle and applications of undoing in solid modeling (Chinese), J Dalian Univ Tech 35(5) 664-668 (Oct 1995), 8A828
Spanning line segments of a polyhedron, J Mech Des 118(1) 40-44 (Mar 1996), 8A829
Surface curve design by orthogonal projection of space curves onto free-form surfaces, J Mech Des 118(1) 45-52 (Mar 1996), 8A830
Automated inspection of printed circuit board patterns referenced to CAD data, Int J Japan Soc Precision Eng 29(4) 311-317 (Dec 1995), 9A872
Computer aided detection of isomorphism among kinematic chains and mechanisms using the concept of modified distance, Mech Machine Theory 31(4) 439-444 (May 1996), 9A1012
Loop configuration approach to automatic sketching of mechanisms, Mech Machine Theory 31(4) 423-437 (May 1996), 9A1013
Ship hull geometric modeling design and software system (Chinese), J Dalian Univ Tech 36(2) 212-215 (Mar 1996), 9A1014
Unigraphics software and ship CAD-CAM platform (Chinese), J Dalian Univ Tech 36(2) 216-218 (Mar 1996), 9A1015
Algorithms for the minimization of setups and tool changes in "simply fixturable" components in milling, J Manuf Syst 15(2) 95-112 (1996), 10A497
Domain optimization analysis in linear elastic problems: Approach using traction method, JSME Int J Ser A 39(2) 272-278 (Apr 1996), 10A1023
Genetic optimization of target pressure distributions for inverse design methods, AIAA J 34(5) 881-886 (May 1996), 10A1025
Robust Boolean set operation of polygons with degenerate intersections based on variable tolerances and topological necessary conditions (Japanese), J Japan Soc Precision Eng 62(4) 517-521 (Apr 1996), 11A269
Free-form surface subdivision method for car style design, Int J Vehicle Des 17(3) 247-275 (1996), 11T824
CAD with spatial rational B-spline motions, J Mech Des 118(2) 193-201 (Jun 1996), 12A971
Mesh reduction using an angle criterion approach, J Mech Des 118(2) 300-305 (Jun 1996), 12A972

296E. Optimized design

Design of low-noise centrifugal blowers - Part 1: Measurement and analysis procedures, Noise Control Eng J 43(4) 103-116 (Aug 1995), 1A945
Design of low-noise centrifugal blowers - Part 2: Optimization study, Noise Control Eng J 43(4) 117-127 (Aug 1995), 1A946
Factorial design approach to investigate the effect of geometry in drill string screw connectors, J Energy Resources Tech 117(2) 101-107 (Jun 1995), 1A947
Shape optimization in aerodynamics using nonlinear generalized minimal residual algorithm, Optimal Control Appl Methods 16(4) 229-249 (Sep 1995), 2A266
Optimization of a leg design, J Robotic Syst 12(11) 757-765 (Nov 1995), 2A822
Variational optimization of compression helical springs with respect to their stability, Eng Optim 24(4) 293-317 (Aug 1995), 2A823
Mechanical Design of Process Systems, Vol 2, Second Edition: Shell-and-Tube Heat Exchangers, Rotating Equipment, Bins, Silos, Stacks (Gulf Publ, Houston, 1995) 3N24
Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, JSME Int J Ser A 38(4) 458-464 (Oct 1995), 3A751
Vehicle weight reduction obtained with lightweight materials, JSME Int J Ser A 38(4) 487-493 (Oct 1995), 3A817
Application of nonlinear mixed integer programming as optimization procedure, JSME Int J Ser A 38(4) 465-472 (Oct 1995), 3A850
Determination of the optimum blank shape when deep drawing nonaxisymmetric cups, using a FEM: Simplified determination of optimum blank shape and limiting drawing ratio by inverse FE procedure, JSME Int J Ser A 38(4) 473-479 (Oct 1995), 3A851
Optimum design of transient heat conduction fields using BE inverse analysis, JSME Int J Ser A 38(4) 480-486 (Oct 1995), 3A852
Shape design for thin-walled beam cross sections using rational B splines, AIAA J 33(11) 2205-2211 (Nov 1995), 4A860
Shape optimization with p adaptivity, AIAA J 33(12) 2399-2405 (Dec 1995), 4A861

Variable-complexity genetic algorithm for topological design, AIAA J 33(11) 2212-2217 (Nov 1995), 4A862
Design optimization of a three dof variable-reluctance spherical wrist motor, J Eng Indust 117(3) 378-388 (Aug 1995), 5A358
Discrete optimal design formulations with application to gear train design, J Mech Des 117(3) 419-424 (Sep 1995), 5A847
Global feasible search for global design optimization with application to generalized polynomial models, J Mech Des 117(3) 402-408 (Sep 1995), 5A848
Infeasibility and non-optimality tests for solution space reduction in discrete optimal design, J Mech Des 117(3) 425-432 (Sep 1995), 5A849
Integrating optimal experimental design into the design of a multi-axis load transducer, J Eng Indust 117(3) 400-405 (Aug 1995), 5A850
Integrated optimum design of structure and H^{∞} control system, AIAA J 34(1) 159-165 (Jan 1996), 6A717
Optimization of structures under technological casting constraints, Struct Optim 10(3-4) 180-190 (Dec 1995), 6A723
Design optimization as an engineering tool, Struct Optim 10(3-4) 137-152 (Dec 1995), 6A855
Multidisciplinary design optimization of lumbar transpedicular screws, Struct Optim 10(3-4) 222-230 (Dec 1995), 6A856
Physical programming: Effective optimization for computational design, AIAA J 34(1) 149-158 (Jan 1996), 6A857
Fuzzy ratings in mechanical engineering design: Application to bearing selection, Proc Inst Mech Eng J Eng Manuf 210(B1) 49-53 (1996), 7A1017
Optimization of novel mechanisms for driving active tools of agricultural tilling machines, J Machinery Manuf Reliab 4 9-13 (1995), 7T1018
Shape organization with buckling and stress constraints, AIAA J 34(2) 423-425 (Feb 1996), 7T1019
Infeasible path optimal design methods with applications to aerodynamic shape optimization, AIAA J 34(2) 217-224 (Feb 1996), 7A1175
Topological optimization of plane elastic continuum with stress constraints (Chinese), J Dalian Univ Tech 35(1) 1-9 (Feb 1995), 8A728
Convex cutting plane algorithm for global solution of generalized polynomial optimal design models, J Mech Des 118(1) 82-88 (Mar 1996), 8A831
Deterministic global design optimization method for nonconvex generalized polynomial problems, J Mech Des 118(1) 75-81 (Mar 1996), 8A832
Genetic algorithm-based structural topology design with compliance and topology simplification considerations, J Mech Des 118(1) 89-98 (Mar 1996), 8A833
Optimization of characteristics of elasto-damping elements from aspect of oscillatory comfort and vehicle handling, Int J Vehicle Des 17(1) 76-91 (1996), 8A834
Optimum design of cam mechanisms with oscillating flat-face followers, Mech Res Commun 23(2) 181-187 (Apr 1996), 8A835
Optimum design of wheel-type structure for three-axis accelerometer (Chinese), J Dalian Univ Tech 35(5) 678-681 (Oct 1995), 8A836
Shape optimization of elliptical road containers due to liquid load in steady-state turning, Vehicle Syst Dyn 25(3) 203-221 (Mar 1996), 8A837
Synthesis of optimal shape and topology of structures, J Mech Des 118(1) 68-74 (Mar 1996), 8A838
Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, JSME Int J Ser C 39(1) 130-136 (Mar 1996), 9A1016
Generalized exact gradient method for mechanism synthesis, Mech Machine Theory 31(4) 413-421 (May 1996), 9A1017
Optimization of the geometry of electrostatic micromotors using only analytical equations, J Micromech Microeng 6(1) 108-111 (Mar 1996), 10T469
Domain optimization analysis in linear elastic problems: Approach using traction method, JSME Int J Ser A 39(2) 272-278 (Apr 1996), 10A1023
General loss function based optimization procedure for robust design, Eng Optim 25(4) 255-276 (Mar 1996), 10A1024
Genetic optimization of target pressure distributions for inverse design methods, AIAA J 34(5) 881-886 (May 1996), 10A1025
Optimization of frame topology using boundary cycle and genetic algorithm, JSME Int J Ser A 39(2) 279-285 (Apr 1996), 10A1026
Optimization of rotary effectors of a modular system for performing a set of operations, J Machinery Manuf Reliab 6 1-6 (1995), 10A1027
Optimum design of flexible multibody systems with dynamic behavior constraints, Eur J Mech A 15(2) 351-359 (1996), 10A1028
Robust design for unconstrained optimization problems using the Taguchi method, AIAA J 34(5) 1059-1063 (May 1996), 10A1029
Optimal Ritz vectors for component mode synthesis using the singular value decomposition, AIAA J 34(6) 1256-1260 (Jun 1996), 11A138
Identification of parameter coupling in turbine design using neural networks, J Propulsion Power 12(3) 503-508 (Jun 1996), 11A1041
Barriers to energy in vehicle design, Int J Vehicle Des 17(3) 240-246 (1996), 11A1279
Homology design for eigenvector of bending vibration using FEM, JSME Int J Ser C 39(2) 212-217 (Jun 1996), 12A192
Implications of arrow's impossibility theorem on approaches to optimal engineering design, J Mech Des 118(2) 161-164 (Jun 1996), 12A463
Multicriteria simulation and analysis, J Machinery Manuf Reliab 1 88-94 (1996), 12A973
Multiobjective optimization of a leg mechanism with various spring configurations for force reduction, J Mech Des 118(2) 179-185 (Jun 1996), 12A974
Optimal design of involute profile helical gears, Mech Machine Theory 31(6) 717-728 (Aug 1996), 12A975
Topology optimization with superelements, AIAA J 34(7) 1533-1535 (Jul 1996), 12T976

296F. Kinematics of mechanisms

Singularities in mechanisms: The local trajectory tracking problem, Mech Machine Theory 30(8) 1139-1148 (Nov 1995), 2A305
Generalized approach for the kinematic analysis of planar mechanisms, Proc Inst Mech Eng C 209(C4) 237-244 (1995), 2A824
New graphical technique for solving the Euler-Savary equation, Mech Machine Theory 30(8) 1305-1309 (Nov 1995), 2T825
Non-uniform motion by mechanical means, Proc Inst Mech Eng J Eng Manuf 209(B4) 295-303 (1995), 2A826
Polynomial solution to the position analysis of the 7-link Assur kinematic chain with one quarterly link, Mech Machine Theory 30(8) 1295-1303 (Nov 1995), 2A827
Real inflections of hinged planar four-bar coupler curves, Mech Machine Theory 30(8) 1179-1191 (Nov 1995), 2A828
Kinematics of a rack-lantern-wheel gearing, J Machinery Manuf Reliab 1 28-32 (1995), 3A853
Mechanical design of a new tooling mechanism with on-line controllability of inclination angle, Int J Machine Tools Manuf 36(1) 103-113 (Jan 1996), 3A854
Case for a general method of kinematic analysis of plane mechanisms based on equations of constraint, Proc Inst Mech Eng C 209(C5) 337-343 (1995), 4A100
Spherical four-bar linkages with symmetrical coupler-curves, Mech Machine Theory 31(1) 1-10 (Jan 1996), 4A855
Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), J Japan Soc Precision Eng 61(10) 1458-1462 (Oct 1995), 4A863
Precise tilting control of rotating table: Mechanical structure and performance (Japanese), J Japan Soc Precision Eng 61(10) 1415-1419 (Oct 1995), 4A864
Synthesis of planar five-bar pantograph configurations by a geometric method, Mech Machine Theory 31(1) 11-21 (Jan 1996), 4A865
Symbolic differentiation of the velocity mapping for a serial kinematic chain, Mech Machine Theory 31(2) 135-148 (Feb 1996), 6A73
Determining screw axes using holographic interferograms, Mech Machine Theory 31(2) 245-259 (Feb 1996), 6A113
Kinematic and static analysis of a planar two-dof parallel manipulator (German), Mech Machine Theory 31(2) 149-160 (Feb 1996), 6A360
Physical model of the solution space of 3-dof parallel planar manipulators, Mech Machine Theory 31(2) 161-171 (Feb 1996), 6A361
Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, Mech Machine Theory 31(2) 173-184 (Feb 1996), 6A362
Topological synthesis of compliant mechanisms, Mech Machine Theory 31(2) 185-199 (Feb 1996), 6A858
Free-floating closed-chain planar robots: Kinematics and path planning, Nonlinear Dyn 9(1-2) 1-19 (Feb 1996), 7A433
Geometrical properties of scene constraint ruled surfaces for spatial mechanisms (Chinese), J Dalian Univ Tech 35(6) 838-843 (1995), 7A1020
Interference-drive of a 3 dof joint based on the cable-controlled mechanism (Japanese), J Japan Soc Precision Eng 61(12) 1690-1694 (Dec 1995), 7A1021
Performance quality and tolerance sensitivity of mechanisms, J Mech Des 118(1) 144-150 (Mar 1996), 8A358
Helically curved unfurlable structural elements: Kinematic analysis and laboratory demonstration, J Mech Des 118(1) 22-28 (Mar 1996), 8A839
Application of screw algebra to the acceleration analysis of serial chains, Mech Machine Theory 31(4) 445-457 (May 1996), 9A135
Algorithm for solving the direct kinematics of general Stewart-Gough platforms, Mech Machine Theory 31(4) 365-379 (May 1996), 9A1018
Algorithm to generate the transition curve of the planar four-bar mechanism, Mech Machine Theory 31(4) 381-395 (May 1996), 9A1019
Design of crank-rocker mechanisms with optimum transmission angle over working stroke, Mech Machine Theory 31(4) 501-511 (May 1996), 9A1020
Explicit determination of the position functions of complex mechanism links, J Machinery Manuf Reliab 5 6-12 (1995), 9A1021
Kinematic synthesis of adjustable moving pivot four-bar mechanisms for multi-phase motion generation, Mech Machine Theory 31(4) 459-474 (May 1996), 9A1022
Method for identifying the structural diagrams of linkages, J Machinery Manuf Reliab 5 13-17 (1995), 9A1023
A priori geometric design of an interference free complex planar mechanism, Mech Machine Theory 31(4) 513-524 (May 1996), 9A1024
Reduction of speed ripple due to transmission error of strain wave gearing by repetitive control, Int J Japan Soc Precision Eng 29(4) 325-330 (Dec 1995), 9A1025
Simple stationary configurations of single-loop spatial N-revolute overconstrained linkages, Trans Can Soc Mech Eng 20(1) 17-39 (1996), 10A1030
Mobility analysis of spatial 4- and 5-link mechanisms of the RS class, Mech Machine Theory 31(5) 673-690 (Jul 1996), 11A825
Use of compatibility linkages and solution structures in the dimensional synthesis of mechanism components, Mech Machine Theory 31(5) 619-635 (Jul 1996), 11A826
Constructive predictor-corrector algorithm for the direct position kinematics problem for a general 6-6 Stewart platform, Mech Machine Theory 31(6) 799-811 (Aug 1996), 12A86
Generating the swept area of a body undergoing planar motion, J Mech Des 118(2) 186-192 (Jun 1996), 12A88
New resolution scheme of the forward kinematics of parallel manipulators using extra sensors, J Mech Des 118(2) 214-219 (Jun 1996), 12A444
Working capability analysis of Stewart platforms, J Mech Des 118(2) 220-227 (Jun 1996), 12A449
Modular structure of spatial cam-linkage mechanism, Mech Machine Theory 31(6) 813-819 (Aug 1996), 12A953
Model of vibration excitation in a spur mesh, J Machinery Manuf Reliab 1 17-26 (1996), 12T958
Position analysis of planar linkages using the method of modification of kinematic units, Mech Machine Theory 31(6) 831-838 (Aug 1996), 12A969
Equilibrium positions of mechanisms and methods for their determination, J Machinery Manuf Reliab 1 8-12 (1996), 12A977
Generation of planar kinematic chains, Mech Machine Theory 31(6) 729-748 (Aug 1996), 12A978
Geometry and pressure in a trochoidal-type machine without apex seal, J Mech Des 118(2) 209-213 (Jun 1996), 12A979
Kinematic analysis of epicyclic-type transmission mechanisms using the concept of fundamental geared entities, J Mech Des 118(2) 294-299 (Jun 1996), 12A980
Question of minimax loop-size in planar homogeneous kinematic chains, Mech Machine Theory 31(6) 821-829 (Aug 1996), 12A981
RSSR mechanisms with partially constant transmission angle, Mech Machine Theory 31(6) 763-769 (Aug 1996), 12A982

296G. Dynamics of mechanisms

Contact stress analysis of spur gears using variational inequalities, Comput Struct 57(5) 871-882 (Dec 1995), 2A829
Dynamic stability of four-bar and slider-crank mechanisms with viscoelastic (Kelvin-Voigt model) coupler, Mech Machine Theory 31(1) 77-89 (Jan 1996), 4A581
Dynamic design, European J Mech Eng 40(3) 132-138 (1995), 4T866
Dynamic response of a revolute joint with clearance, Mech Machine Theory 31(1) 121-134 (Jan 1996), 4A867
Analysis of the dynamics of nonlinear mechanical systems subjected to additive and parametric nonstationary random perturbations, J Machinery Manuf Reliab 2 9-15 (1995), 5T851
Dynamics of closed-die forging with mechanical presses, J Eng Indust 117(3) 357-364 (Aug 1995), 5A852
New class of sliders numerically designed for maximum stiffness, J Trib 117(3) 456-460 (Jul 1995), 5A853
Power-dynamic analysis of a windwheel unit with a variable inertia flywheel, J Machinery Manuf Reliab 3 109-111 (1995), 6A1299
Effect of nonlinear components on the performance of a hydro-pneumatic slow-active suspension system, Proc Inst Mech Eng D 210(D1) 23-34 (1996), 7A197
Impact of the kinematic precision of a gearing on the machine unit vibration activity, J Machinery Manuf Reliab 4 28-32 (1995), 7A1007
Fundamental analysis of Cycloid Ball Reducer (3rd report): Strength design (Japanese), J Japan Soc Precision Eng 61(12) 1705-1709 (Dec 1995), 7A1022
Single dof mechanism vibration near equilibrium, Mech Machine Theory 31(3) 339-344 (Apr 1996), 7A1023
Design, construction and instrumentation of a machine to measure tension and impact forces in roller chain drives, Mech Machine Theory 31(4) 525-531 (May 1996), 9A996
Experimental investigation of link tension and roller-sprocket impact in roller chain drives, Mech Machine Theory 31(4) 533-544 (May 1996), 9A997
Global stabilization of the oscillating eccentric rotor, Nonlinear Dyn 10(1) 49-62 (May 1996), 10A105
Hodograph and the balancer of any frequency term of the shaking force of spatial mechanisms, Proc Inst Mech Eng C 210(C2) 135-141 (1996), 11A148
Stochastic dynamical modeling of an open-chain manipulator in a fluid environment, Mech Machine Theory 31(5) 561-572 (Jul 1996), 11A386
Dynamic stability analysis of a closed-loop flexible link mechanism, Mech Machine Theory 31(5) 545-560 (Jul 1996), 11A552

296H. Elastodynamics of mechanisms

Analysis of forced vibration in cyclic mechanisms with strongly interacting flexural and torsional subsystems, J Machinery Manuf Reliab 1 78-83 (1995), 3A855
Finite element formulation of a flexible slider crank mechanism using local coordinates, J Dyn Syst Meas Control 117(3) 329-335 (Sep 1995), 5A10
New class of sliders numerically designed for maximum stiffness, J Trib 117(3) 456-460 (Jul 1995), 5A853
Deflection compensation for large flexible manipulators, Mech Machine Theory 31(3) 317-329 (Apr 1996), 7A430
Evaluation of equivalent spring stiffness for use in a pseudo-rigid-body model of large-deflection compliant mechanisms, J Mech Des 118(1) 126-131 (Mar 1996), 8A840
Loop-closure theory for the analysis and synthesis of compliant mechanisms, J Mech Des 118(1) 121-125 (Mar 1996), 8A841
Formation of kinematic and dynamic parameters of variable-structure mechanisms in a transient mode, J Machinery Manuf Reliab 5 25-29 (1995), 9A1010
Parametric pulses during shockless reversals in linkage clearances, J Machinery Manuf Reliab 5 18-24 (1995), 9A1026
Theoretical-experimental method for determining the stiffness and dissipative characteristics of elasto-damping elements in the frequency domain, J Machinery Manuf Reliab 6 87-89 (1995), 10A137
Optimum design of flexible multibody systems with dynamic behavior constraints, Eur J Mech A 15(2) 351-359 (1996), 10A1028
Calculation of elastic deformation of the elements of a wave gearing, J Machinery Manuf Reliab 6 23-27 (1995), 10A1031
Technique for calculating the stresses in the elements of construction-machine metallic structures with allowance for hinged joint clearances, J Machinery Manuf Reliab 6 35-39 (1995), 10A1032
Use of energy flow concept in vibration design, AIAA J 34(6) 1250-1255 (Jun 1996), 11A159
Elastodynamic response of a dc motor driven flexible mechanism system with compliant drive train components during start-up, Mech Machine Theory 31(5) 659-672 (Jul 1996), 11A827
Analysis of a nonuniform loading across the width of the teeth, J Machinery Manuf Reliab 1 65-67 (1996), 12T955
Spatial bending of a system of annular elements of the radial chain of a wave gearing, J Machinery Manuf Reliab 1 60-64 (1996), 12A959

296I. Reliability analysis and design

Reliability-based casing design, J Energy Resources Tech 117(2) 93-100 (Jun 1995), 1A948
Simulation of the influence of manufacturing quality on reliability of vias, J Electron Packaging 117(2) 141-146 (Jun 1995), 3A419
Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, J Machinery Manuf Reliab 1 50-54 (1995), 3A723
Longevity criteria for the mechanisms incorporating higher kinematic pairs, derived by solving the contact problem, J Machinery Manuf Reliab 1 38-44 (1995), 3A856

Prediction of the reliability of the tools of multistation automatic presses, J Machinery Manuf Reliab 1 45-49 (1995), 3T857
Reliability issues in plated-through-holes due to insertion-mount complaint-pin connectors, J Electron Packaging 117(2) 147-152 (Jun 1995), 3A858
Statistical simulation of the life of rolling bearings, J Machinery Manuf Reliab 2 87-89 (1995), 5T834
Error in the reproduction of vibration in testing machinery equipment, J Machinery Manuf Reliab 2 90-95 (1995), 5T854
Network reliability approach to optimal decomposition of design problems, J Mech Des 117(3) 433-440 (Sep 1995), 5A855
Simulation of the probability of integrity of machine parts subjected to a random combined influence, J Machinery Manuf Reliab 3 106-108 (1995), 6T859
Structure of automated calculation of the parametric reliability of machines, J Machinery Manuf Reliab 3 25-31 (1995), 6A860
Reliability model for combustion engine, Int J Vehicle Des 17(2) 208-219 (1996), 8T842
Analysis of the reliability of internal combustion engine exhaust valves, J Machinery Manuf Reliab 5 40-52 (1995), 9A1027
Design of wire parallel mechanism, Int J Japan Soc Precision Eng 29(4) 337-342 (Dec 1995), 9A1028
Reliability of machine parts subjected to random pulsed torsion, J Machinery Manuf Reliab 5 96-98 (1995), 9A1029
Formation of programs for equivalent laboratory tests of turbine blades, J Machinery Manuf Reliab 6 69-72 (1995), 10A619
Spatial dimensional analysis of the radial clearances between cylindrical surfaces, J Machinery Manuf Reliab 6 50-54 (1995), 10T1022
Chip breaking equipment in machining (Polish), Strojnicky Casopis 47(1) 44-51 (1996), 11A828
Bus bar solder joint durability evaluation, J Electron Packaging 118(2) 80-86 (Jun 1996), 12A983
Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, Wear 195(1-2) 206-213 (Jul 1996), 12A984
Fundamentals of the service life design of diesel exhaust valves, J Machinery Manuf Reliab 1 45-54 (1996), 12A985
Shock and vibration of solder bumped flip chip on organic coated copper boards, J Electron Packaging 118(2) 101-104 (Jun 1996), 12A986
Solder joint reliability prediction by the integrated matrix creep method, J Electron Packaging 118(2) 55-61 (Jun 1996), 12A987
Statistical simulation of the life of lumber straddle carriers with allowance for the mode of operation, J Machinery Manuf Reliab 1 55-59 (1996), 12T988

296Y. Computational techniques

Manipulation of engineering design calculations by a calculation processing system - I: Theory, Comput Struct 57(4) 737-744 (Nov 1995), 1A949
Application of structural numbers to generating the characteristics of mechanical systems, Mech Machine Theory 30(7) 1027-1037 (Oct 1995), 2A830
New approach to free-form surface mesh control in a CAD environment, Int J Numer Methods Eng 38(18) 3121-3142 (Sep 1995), 2A831
Variable-complexity genetic algorithm for topological design, AIAA J 33(11) 2212-2217 (Nov 1995), 4A862
New computational algorithm for 7R spatial mechanisms, Mech Machine Theory 31(1) 23-43 (Jan 1996), 4A868
Adaptive methodology for machine tool error correction, J Eng Indust 117(3) 389-399 (Aug 1995), 5A856
Effective mixed annealing-heuristic algorithm for problems in mechanical design, J Mech Des 117(3) 409-418 (Sep 1995), 5A857
Use of genetic algorithms for the design of rotors, Meccanica 30(6) 707-717 (Dec 1995), 5A858
Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), J Dalian Univ Tech 35(5) 673-677 (Oct 1995), 8A827
Principle and applications of undoing in solid modeling (Chinese), J Dalian Univ Tech 35(5) 664-668 (Oct 1995), 8A828
Statistical model for the inherent tilt of flip-chips, J Electron Packaging 118(1) 16-20 (Mar 1996), 8A843
Computer simulation of the creative procedures used in synthesizing novel antivibration systems, J Machinery Manuf Reliab 5 75-81 (1995), 9A1009

298. FASTENING AND JOINING

298B. Mechanical joints

Existence and uniqueness of solutions for a single-dof system with two friction-affected sliding joints, J Sound Vib 185(2) 364-371 (Aug 1995), 1A950
Investigation into the behavior and strength of bolted connections in ferrocement, J Ferrocement 25(3) 207-219 (Jul 1995), 1A951
Strength of metal-matrix composite joints, Acta Metall Mat 43(9) 3361-3373 (Sep 1995), 1A952
Toward design office moment-rotation curves for end-plate beam-to-column connections, J Construct Steel Res 35(2) 217-253 (1995), 1A953
Equilibrium of bolted joints subjected to in-plane external loading, J Aircraft 32(5) 1124-1129 (Oct 1995), 2A832
Behavior of square joints of steel frames under bending moments, Comput Struct 58(1) 189-194 (Jan 1996), 3A859
Design of interferenced and clamped joints under general state of stress, J Theor Appl Mech 33(4) 825-842 (1995), 3A860
Identification of joint properties of a structure using FRF data, J Sound Vib 186(4) 567-587 (Oct 1995), 3A861
Model for including semi-rigid connections on 3D thin-walled framed structures (Spanish), J Brazilian Soc Mech Sci 17(2) 120-134 (1995), 4A540
Cyclic performance of steel beam-column moment joints, Eng Struct 17(8) 596-602 (Sep 1995), 4A869
Semirigid joint action and the design of nonsway composite frames, Eng Struct 17(8) 554-567 (Sep 1995), 4A870
Stability analysis of semirigid steel scaffolding, Eng Struct 17(8) 568-574 (Sep 1995), 4A871
Validity of classification systems of semirigid connections, Eng Struct 17(8) 544-553 (Sep 1995), 4A872
Effect of eccentric loading on the stress distribution in thread roots, Fatigue Fracture Eng Mat Struct 18(11) 1333-1341 (Nov 1995), 5A398
B31.3 Appendix X rules for expansion joints, J Pressure Vessel Tech 117(3) 283-288 (Aug 1995), 5A603
Extending the fatigue life of multi-layer metal joints, Fatigue Fracture Eng Mat Struct 18(11) 1231-1247 (Nov 1995), 5A605
Fatigue testing of metric bolts fitted with lip-type nuts, J Offshore Mech Arctic Eng 117(3) 200-204 (Aug 1995), 5A606
Determination of load distribution in a threaded connector with yielding threads, Mech Machine Theory 31(2) 229-244 (Feb 1996), 6A405
Effect of pitch distance, row spacing, end distance and bolt diameter on multi-fastened composite joints, Composites Part A Appl Sci and Manuf 27A(2) 105-110 (1996), 6A446
Governing stresses in Z-purlin lap joints, J Struct Eng 121(12) 1735-1741 (Dec 1995), 6A861
Dynamic tensile strength of composite laminate joints fastened mechanically, Theor Appl Fracture Mech 24(2) 147-155 (Jan 1996), 7A567
Preload measurement in sleeve bolts using an ultrasonic technique, Mat Eval 54(2) 308-313 (Feb 1996), 7A889
Analysis of flange joints under external loads, J Pressure Vessel Tech 118(1) 59-63 (Feb 1996), 7A1024
Behavior of a tapered hub flange with a bolted flat cover in transient temperature field, J Pressure Vessel Tech 118(1) 115-120 (Feb 1996), 7A1025
Nonlinear effects on the stiffness of bolted joints, J Pressure Vessel Tech 118(1) 48-53 (Feb 1996), 7A1026
Nonlinear effects on the stresses and deformations of bolted joints, J Pressure Vessel Tech 118(1) 54-58 (Feb 1996), 7A1027
Testing of energy dissipating cladding connections, Earthquake Eng Struct Dyn 25(2) 129-147 (Feb 1996), 7A1382
Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), J Dalian Univ Tech 35(2) 222-226 (Apr 1995), 8A581
Failure analysis of bolted composite joints exhibiting in-plane failure modes, J Composite Mat 30(3) 358-383 (1996), 8A648
Vibration analysis of elastic manipulators with the adjacent link joint method, JSME Int J Ser C 39(1) 94-101 (Mar 1996), 9A457
Review of models of semi-rigid steel column-beam connections, Arch Civil Eng 42(1) 65-82 (1996), 9T565
Effects of geometries, clearances, and friction on the composite multipin joints, AIAA J 34(4) 862-864 (Apr 1996), 9T1030
Loadability of bolt-nut assemblies: Determination of critical nut height by staircase method, Int J Japan Soc Precision Eng 29(4) 356-360 (Dec 1995), 9A1031
Behavior of beam-column connections under axial column tension, J Struct Eng 122(5) 501-511 (May 1996), 10A890
Contact stress in a bolted joint with a threaded bolt, Exp Mech 36(1) 17-23 (Mar 1996), 10A1033
Determination of bolt forces in a circular flange joint under tension force, Int J Pressure Vessels Piping 68(1) 63-71 (1996), 10A1034
Estimation of flexibility of joints in steel structures (Polish), Inzynieria Budownictwo 53(4) 236-242 (1996), 10A1035
Geometric parameters for FE model updating of joints and constraints, Mech Syst Signal Processing 10(2) 171-182 (Mar 1996), 11A11
Analysis of adhesively bonded joints with gaps subjected to bending, Int J Solids Struct 33(18) 2681-2693 (Jul 1996), 11A829
Connections in cold-formed thin-walled structures, Comput Struct 60(1) 169-172 (Jul 1996), 11A830
Fatigue behavior on split toe flange joints (Japanese), Proc JSCE 537(I-35) 133-144 (Apr 1996), 11A831
Load distribution in composite multifastener joints, Comput Struct 60(2) 337-342 (Jul 1996), 11A832
Strength test over the high strength bolted joints in steel deck with large scale specimens (Japanese), Proc JSCE 537(I-35) 321-326 (Apr 1996), 11T833
Analysis of a cracked lug loaded by an interference fit pin, Int J Mech Sci 38(8-9) 967-979 (Sep 1996), 12A734
Bulging of bolted guideways, J Mech Des 118(2) 280-285 (Jun 1996), 12A989
Elastoplastic contact stress analysis of joints subjected to cyclic loading, Comput Struct 60(6) 1067-1077 (Jul 1996), 12A990
Joint characteristics of traditional Chinese wooden frames, Eng Struct 18(8) 635-644 (Aug 1996), 12A991
Numerical method for load distribution in threaded connections, J Mech Des 118(2) 274-279 (Jun 1996), 12A992
Thermomechanical generalization of partial contact in pin joints, Int J Mech Sci 38(10) 1059-1072 (Oct 1996), 12A993

298C. Welding, brazing, and soldering

Estimates of local tensile strength of welded joints, Int J Pressure Vessels Piping 65(1) 41-45 (1996), 1A499
TWI biaxial test program: 1984-1994, Int J Pressure Vessels Piping 64(3) 177-190 (1995), 1T500
Finite element simulation of the inertia welding of two similar parts, Eng Comput 12(6) 497-512 (Sep 1995), 1A954
Effective weld length for HSS T, Y, and X connections, J Struct Eng 121(10) 1402-1408 (Oct 1995), 2A833
Experimental investigation of deformation and jetting during impact spot welding, Int J Impact Eng 16(5-6) 789-799 (Dec 1995), 2A834
Fillet weld profile measurements, Exp Tech 19(5) 21-24 (Oct 1995), 2T835
Welding arc pressure, J Brazilian Soc Mech Sci 17(1) 49-55 (1995), 2A836
Method for residual stress measurement in welded seams, J Mat Processing Tech 52(2-4) 503-514 (Jul 1995), 3A474
Butt welds and transverse fillet welds in thin cold-formed RHS members, J Struct Eng 121(11) 1674-1682 (Nov 1995), 3A862
Comparison of LCC solder joint life predictions with experimental data, J Electron Packaging 117(2) 109-115 (Jun 1995), 3A863
Evaluation of design parameters for leadless chip resistors solder joints, J Electron Packaging 117(2) 94-99 (Jun 1995), 3A864
Longitudinal fillet welds in thin cold-formed RHS members, J Struct Eng 121(11) 1683-1690 (Nov 1995), 3A865
Plastic deformation kinetics of 95.5Sn4Cu0.5Ag solder joints, J Electron Packaging 117(2) 100-104 (Jun 1995), 3A866
Study of print release process in solder paste printing, J Electron Packaging 117(3) 230-234 (Sep 1995), 3A867
Undercooling of 63SN-37PB solder pastes, J Electron Packaging 117(2) 105-108 (Jun 1995), 3A868
Use of stimulated boundary gas release for determination of the adhesion of thin films by the blister test, J Adhesion Sci Tech 9(11) 1413-1426 (1995), 3A869
Welding arc pressure, J Brazilian Soc Mech Sci 17(1) 49-55 (1995), 3A870
Wetting kinetics of molten 60Sn40Pb on a Ag-0.33 wt% Pt thick film conductor, J Electron Packaging 117(3) 241-245 (Sep 1995), 3A871
Spectrum fatigue behavior of welded joints, Int J Fatigue 17(7) 485-491 (Oct 1995), 4A677
Integration of in-site control systems in laser welding processes (French), Rev Francaise Mec 0(3) 211-218 (1995), 4A873
Optical characterization of laser-matter interaction: The welding application, Rev Francaise Mec 0(3) 197-204 (1995), 4T874
Infrared sensing for on-line weld geometry monitoring and control, J Eng Indust 117(3) 323-330 (Aug 1995), 5A385
New method for estimating residual stresses in pipe made by surfacing weld, J Eng Indust 117(3) 365-371 (Aug 1995), 5A459
Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, J Pressure Vessel Tech 117(3) 227-237 (Aug 1995), 5A611
Designing shielded metal arc consumables for underwater wet welding in offshore applications, J Offshore Mech Arctic Eng 117(3) 212-220 (Aug 1995), 5A859
Crack aspect development curves and fatigue life prediction for surface cracks at weld toes in the presence of residual stress, Int J Fatigue 17(8) 551-557 (Nov 1995), 6A595
Failures of welded titanium aircraft ducts, Eng Failure Anal 2(4) 257-273 (Dec 1995), 6A597
Fatigue fracture of a weld on a weight training frame, Eng Failure Anal 2(4) 275-285 (Dec 1995), 6A615
Importance of toe irregularity for fatigue resistance of automatic welds, Int J Fatigue 17(8) 531-538 (Nov 1995), 6A617
Monitoring of friction welded joint performance using bonding evaluation factor, Int J Japan Soc Precision Eng 29(3) 205-210 (Sep 1995), 7T480
Exact solution on the stress analysis of fillet welds, Appl Math Mech 16(11) 1019-1024 (Nov 1995), 7A495
Fatigue crack propagation life analysis of solder joints under thermal cyclic loading, Theor Appl Fracture Mech 24(2) 157-164 (Jan 1996), 7A776
Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), J Soc Mat Sci Japan 44(507) 1464-1469 (Dec 1995), 7A897
Effect of post-weld heat-treatment on mechanical-properties and residual-stresses mapping in welded structural steel, J Mat Processing Tech 55(2) 117-122 (Nov 1995), 7A1028
Hysteretic behavior prediction of full and partial penetration transverse groove welded joints, Comput Struct 59(1) 1-11 (Apr 1996), 7A1029
Resonance vibrations of axisymmetrical electromechanical system with AFC (Russian), Prikl Mekh (Appl Mech) 31(6) 57-63 (1995), 7A1030
Rule-based control of weld bead width in pulsed gas tungsten arc welding, Proc Inst Mech Eng J Eng Manuf 210(B1) 93-98 (1996), 7A1031
Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 1: Analysis of weld pool surface profile, Proc Inst Mech Eng J Eng Manuf 210(B1) 77-85 (1996), 7T1032
Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 2: Process optimization, Proc Inst Mech Eng J Eng Manuf 210(B1) 87-91 (1996), 7T1033
4th International Conference on Trends in Welding Research (ASM Int, Materials Park OH, 1996) 8N11
Creep deformation and rupture of low alloy ferritic weldments under shear loading, J Strain Anal Eng Des 31(2) 125-133 (Mar 1996), 8A407
Modeling creep failure in welded plates under uniaxial loading, J Strain Anal Eng Des 31(2) 117-124 (Mar 1996), 8A411
Response and cyclic strain accumulation of pressurized piping elbows under dynamic in-plane bending, J Strain Anal Eng Des 31(2) 135-151 (Mar 1996), 8A432
Assessment of weld mismatching, Eng Fracture Mech 53(4) 581-592 (Mar 1996), 8A627
Influence of crack depth and strength matching on deformation and plastic zone for welded joint specimen, Int J Fracture 74(1) 77-87 (1995), 8A631
Optimization of the ultrasonic welding of PEEK-carbon composites, J Reinforced Plastics Composites 15(2) 174-182 (Feb 1996), 8A656
Analysis of temperature distribution during circumferential welding of cylindrical and spherical components using the FEM, Comput Struct 59(2) 225-255 (Apr 1996), 8A844
Fine-pitch stencil printing process modeling and optimization, J Electron Packaging 118(1) 1-6 (Mar 1996), 8A845
Residual stresses in welding: Basic aspects (Spanish), J Brazilian Soc Mech Sci 17(4) 394-403 (1995), 8A846
Solutions for a class of equations occurring in research of arc column instability (Chinese), J Dalian Univ Tech 35(5) 628-632 (Oct 1995), 8A847
Two-component sorption model and its application (Chinese), J Dalian Univ Tech 35(5) 644-648 (Oct 1995), 8A848
Dynamic characteristics of welded structures, Nucl Eng Des 160(3) 379-385 (Feb 1996), 9A171
One-dimensional model for the prediction of residual stress and its relief in welded plates, Int J Mech Sci 38(7) 735-751 (Jul 1996), 9A517
Practical procedure for evaluating SIFs along fronts of semi-elliptical surface cracks at weld toes in complex stress fields, Int J Fatigue 18(2) 127-135 (Feb 1996), 9A803

Ballistic performance of high-strength low-alloy steel weldments, J Mat Processing Tech 57(1-2) 23-30 (Feb 1996), 10A276
Predicting 800 to 500 degrees C weld cooling times by using backpropagation neural networks, Trans Can Soc Mech Eng 20(1) 75-85 (1996), 10A450
Prediction of residual stresses in welded T- and I-joints using inherent strains, J Eng Mat Tech 118(2) 229-234 (Apr 1996), 10A558
Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, Int J Pressure Vessels Piping 67(3) 229-242 (1996), 10A737
Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, Int J Pressure Vessels Piping 68(1) 23-37 (1996), 10A746
Reliability factors and tightness of tube-to-tubesheet joints, J Pressure Vessel Tech 118(2) 137-141 (May 1996), 10A1036
Study on parameter optimization in the circumferential GTA welding of aluminum pipes using a semi-analytical FEM, J Mat Processing Tech 57(1-2) 95-102 (Feb 1996), 10A1037
Modeling of thermal stresses during an electron-beam welding process, J Thermal Stresses 19(3) 211-236 (May 1996), 10A1329
Elastic-plastic strain distributions at fillet welds, J Strain Anal Eng Des 31(3) 215-230 (May 1996), 11A448
Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, J Offshore Mech Arctic Eng 118(2) 165-168 (May 1996), 11A834
Laser phased array measurement of simulated solidified weld penetration depth, J Manuf Sci Eng 118(2) 266-271 (May 1996), 11A835
Numerical analysis of fully penetrated weld pools in gas tungsten arc welding, Proc Inst Mech Eng C 210(C2) 187-195 (1996), 11A836
Numerical simulation of welding and quenching processes using transient thermal and thermo-elastoplastic formulations, Comput Struct 60(1) 131-154 (Jul 1996), 11A837
Probabilistic assessment of non-destructively determined flaws in welds, Fusion Eng Des 31(1) 1-8 (Apr 1996), 11A838
Stress concentration factors for multiplanar joints in RHS, Heron 40(4) 341-352 (1995), 11A839
Weldability of neutron-irradiated type 316 stainless steel, Fusion Eng Des 31(1) 9-15 (Apr 1996), 11A840
Welding residual distortions in ring-stiffened pipes, J Offshore Mech Arctic Eng 118(2) 121-126 (May 1996), 11A841
Analysis of the impression creep test method using a rectangular indenter for determining the creep properties in welds, Int J Mech Sci 38(10) 1089-1102 (Oct 1996), 12A507
Review of fatigue strength assessment of nonwelded and welded structures based on local parameters, Int J Fatigue 18(3) 153-170 (Apr 1996), 12A718
NDT of welds: State of the art, NDT&E Int 29(2) 111-117 (Apr 1996), 12A803
Characterization and real-time measurement of geometrical appearance of the weld pool, Int J Machine Tools Manuf 36(7) 799-816 (Jul 1996), 12A994
Design of automotive joints: Using neural networks and optimization to translate performance requirements to physical design parameters, Comput Struct 60(6) 989-1001 (Jul 1996), 12A995
Estimation of residual stresses in weldments using adaptive grids, Comput Struct 60(6) 1037-1045 (Jul 1996), 12A996
Feasibility of producing ferritic-austenitic dissimilar metal joints by high energy density laser beam process, Int J Pressure Vessels Piping 68(2) 153-160 (1996), 12A997
Analysis of thermal stress and distortion in bead-on-plate welding using laminated isotropic plate theory, J Mat Processing Tech 57(3-4) 337-344 (Feb 1996), 12A1287

298D. Interfacial bonding

Effects of water on mortar-brick bond, Heron 40(1) 57-70 (1995), 1A955
Influence of the stiffness of the measurement system on the elastic adhesional contact, J Adhesion Sci Tech 9(11) 1451-1464 (1995), 3A872
Micro-mechanics investigation on the bonding stength of heteroepitaxical film or strip on a hard substrate, J Electron Packaging 117(3) 201-207 (Sep 1995), 3A873
Studies on the adhesives for rubber to rubber bonding, J Adhesion Sci Tech 9(11) 1427-1434 (1995), 3A874
Jet-flow scavenging of a curing oven - Part I: Flow visualization, J Electron Packaging 117(3) 215-219 (Sep 1995), 3A1006
Finite Element study of bond-line-read-out, J Reinforced Plastics Composites 14(11) 1226-1249 (Nov 1995), 4A495
Modeling the inelastic interphase in unidirectional composites, Mech Res Commun 22(6) 561-570 (Dec 1995), 4T533
Bimaterial interface cracks originating from holes, Mech Res Commun 22(6) 577-582 (Dec 1995), 4T875
Mechanics of rubber-to-metal bond failure, J Adhesion 53(3-4) 183-199 (1995), 5A650
Mode-I fracture behavior of adhesive joints - Part I: Relationship between fracture energy and bond thickness, J Adhesion 53(3-4) 149-162 (1995), 5A652
Mode-I fracture behavior of adhesive joints - Part II: Stress analysis and constraint parameters, J Adhesion 53(3-4) 163-172 (1995), 5A653
Reliability Stress Analysis and Failure Prevention, DE-Vol 87 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N26
Formulation of a bondline element for modeling glued joints in wood, J Theor Appl Mech 34(1) 101-128 (1996), 6A12
Relation between phase composition, pore structure, and compressive strength of carbonated mortar, Proc JSCE 526(II) 133-141 (Nov 1995), 6T862
Application of a new constant G load-jig to creep crack growth in adhesive joints, Int J Adhesion Adhesives 15(4) 225-232 (Oct 1995), 7A842
Model of debonding instability for solid propellant rocket motor - Part I: Uniform longitudinal and transverse stress rate, Theor Appl Fracture Mech 24(2) 93-113 (Jan 1996), 7A848
Model of debonding instability for solid propellant rocket motor - Part II: Unequal longitudinal and transverse stress rate, Theor Appl Fracture Mech 24(2) 115-134 (Jan 1996), 7A849
Adhesion and hydrodynamic removal of colloidal particles from surfaces, Particulate Sci Tech 13(3-4) 227-247 (Dec 1995), 7A1034
Adhesion and removal of particles from surfaces, Particulate Sci Tech 13(3-4) 249-270 (Dec 1995), 7A1035
Improvement of polypropylene film adhesion in multilayers by various chemical surface modifications, Int J Adhesion Adhesives 15(4) 205-210 (Oct 1995), 7A1036
Particle adhesion and removal: A review, Particulate Sci Tech 13(3-4) 169-196 (Dec 1995), 7A1037
Planar-tensile representation of edge debonding in patch panels under pressure, Int J Adhesion Adhesives 15(4) 211-217 (Oct 1995), 7A1038
Removal of particulate contaminants using ultrasonics and megasonics: A review, Particulate Sci Tech 13(3-4) 197-211 (Dec 1995), 7A1039
Effect of the stiffness of the measurement system on adhesion force curves in the elastic continuum limit, J Adhesion Sci Tech 10(1) 17-31 (1996), 8A391
Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, J Adhesion Sci Tech 10(1) 47-60 (1996), 8A450
Engineering the interface in composites and bonded components, J Adhesion 54(1-4) 133-143 (1995), 8A452
Preliminary evaluation of hybrid titanium composite laminates, J Adhesion 54(1-4) 223-240 (1995), 8A460
Adhesion and surface analysis, J Adhesion 54(1-4) 175-199 (1995), 8A849
Adhesion between Ni/Fe lead frame and epoxy molding compounds in IC packages, J Adhesion Sci Tech 10(1) 1-15 (1996), 8A850
Bonding residual stresses in high-temperature composites, Comput Struct 59(3) 407-417 (May 1996), 8A851
Butt joint strength: Effect of residual stress and stress relaxation, J Adhesion Sci Tech 10(1) 33-45 (1996), 8A852
Comparison of the work of adhesion obtained from wetting and vapor adsorption measurements, J Adhesion 54(1-4) 115-131 (1995), 8A853
Effect of electrophysical activation of components of polymer composites on their adhesional interaction (Russian), Mech of Composite Mat T31(6) 734-741 (Dec 1995), 8A854
Plasma spray treatments for steel adherends, J Adhesion 54(1-4) 47-55 (1995), 8A855
Water-resistant oxide layers at the interface of zinc-epoxy bonded joints, J Adhesion 54(1-4) 201-221 (1995), 8A856
Effects of sterilization treatments on adhesion of bone cells to titanium, J Adhesion 54(1-4) 145-154 (1995), 8A1408
Contact and adhesion of rough surfaces, J Adhesion Sci Tech 10(2) 161-175 (1996), 9A478
Comparison of three mechanical models for cold roll bonding metal laminates, J Adhesion Sci Tech 10(3) 199-229 (1996), 9A697
Innovative approach to fatigue disbond propagation in adhesive joints, J Adhesion Sci Tech 10(3) 183-198 (1996), 9A827
Adhesion improvement and intrinsic stress decrease in cerium oxide thin films by chopping, J Adhesion Sci Tech 10(2) 151-159 (1996), 9A1032
Special Issue: Papers presented at the thirty-third annual conference on adhesion and adhesives, Oxford Brookes Univ, UK on 5 April 1995, Int J Adhesion Adhesives 16(1) 5-51 (1996), 9T1033
Viscoplastic analysis of adhesive joints, J Appl Mech 63(1) 21-26 (Mar 1996), 9A1034
Edge delamination of residually-stressed thin films: Viscoelastic effects, Int J Fracture 75(3) 215-228 (1995), 10A779
Comments on mixed-mode fracture in adhesive joints, Int J Fracture 75(2) 157-162 (1995), 10A807
Evaluation of adhesive strength of resin liner film, JSME Int J Ser A 39(2) 252-258 (Apr 1996), 10A1038
Finite element modeling of double lap wood joints, J Adhesion 56(1-4) 217-228 (1996), 11A20
Study of the interphase region in carbon fiber-epoxy composites using dynamic mechanical thermal analysis, J Adhesion 56(1-4) 247-260 (1996), 11A475
Surface characterization and adhesive bonding of toughened bismaleimide composites, Composites Part A Appl Sci and Manuf 27A(6) 419-428 (1996), 11A489
Evaluation of mode-II fracture energy of adhesive joints with different bond thickness, J Adhesion 56(1-4) 171-186 (1996), 11A680
Comparison of energy release rates in different membrane blister and peel tests, J Adhesion 56(1-4) 59-78 (1996), 11A842
Contribution of the van der Waals forces to the work of adhesion at metal-oxide interfaces, J Adhesion Sci Tech 10(4) 373-382 (1996), 11A843
Development of a fatigue failure model for the adhesively bonded tubular single lap joint under dynamic torsional loading, J Adhesion 56(1-4) 157-169 (1996), 11A844
Effect of surface characteristics of polymeric materials on the strength of bonded joints, J Adhesion Sci Tech 10(4) 361-372 (1996), 11A845
Local bending moment as a measure of adhesion: The blister test, J Adhesion 56(1-4) 45-57 (1996), 11A846
Nail solution: Adhesion at interfaces, J Adhesion Sci Tech 10(4) 305-325 (1996), 11A847
Special Issue: In honor of Dr KW Allen on the occasion of his 70th birthday, Int J Adhesion Adhesives 16(2) 61-135 (1996), 11A848
Strain distributions in adhesive wood joints, J Adhesion 56(1-4) 27-43 (1996), 11A849
Analysis of adhesive bonded composite lap joints with transverse stitching, Appl Composite Mat 2(6) 343-465 (1995), 12A556
Interface cracking phenomena in constrained metal layers, Acta Mat 44(7) 2963-2971 (Jul 1996), 12A745
Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, J Mat Sci Mat Med 7(2) 109-117 (Feb 1996), 12A782
Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, JSME Int J Ser C 39(2) 365-370 (Jun 1996), 12A970
Optimization of the adhesive joint losipescu specimen for pure shear test, Int J Fracture 76(1) 1-20 (1995), 12A998

V. MECHANICS OF FLUIDS

350. RHEOLOGY

350B. Continuum theory

Strain-coupling effects in steady planar extension, Rheol Acta 34(3) 281-287 (Jun 1995), 1A956
Grain inertia and fluid viscosity dominated granular flow rheology: A thermodynamic analysis, Rheol Acta 34(4) 323-328 (Aug 1995), 2A837
Reptation model with segmental stretch - I: Basic equations and general properties, Rheol Acta 34(4) 339-359 (Aug 1995), 2A838
Reptation model with segmental stretch - II: Steady flow properties, Rheol Acta 34(4) 360-383 (Aug 1995), 2A839
Chaotic dynamics of periodically forced spheroids in simple shear flow with potential application to particle separation, Rheol Acta 34(5) 504-511 (Oct 1995), 4A876
Phenomenological theory of flow-alignment in binary nematic mixtures, Rheol Acta 34(5) 461-473 (Oct 1995), 4A877
Constant flow rate problem for fluids with increasing yield stress in a pipe, Theor Comput Fluid Dyn 7(6) 477-493 (1995), 5A863
Effect of added triblock copolymer on the nonlinear rheology of ordered diblock copolymer mesophases, J Rheol 40(1) 187-197 (Feb 1996), 6A863
Evaluation of the Doi-Ohta theory for an immiscible polymer blend, J Rheol 40(1) 1-21 (Feb 1996), 6A864
Micromechanical model of texture-induced orthotropy in planar crystalline polymers, J Mech Phys Solids 44(2) 157-178 (Feb 1996), 7A2
Dynamics of entanglements: A nonlinear model consistent with the Cox-Merz rule, J Non-Newtonian Fluid Mech 62(2-3) 279-289 (Feb 1996), 8A857
Extended FENE dumbbell theory for concentration dependent shear-induced anisotropy in dilute polymer solutions, J Non-Newtonian Fluid Mech 62(2-3) 235-251 (Feb 1996), 8A858
Relating the shear-thinning curve to the molecular weight distribution in linear polymer melts, J Rheol 40(2) 303-315 (Apr 1996), 8A859
Shear-induced dispersion in a dilute suspension of rough spheres, J Fluid Mech 309 211-223 (Feb 1996), 8A929
New ill-posed problems in rheology, Rheol Acta 35(2) 186-193 (Apr 1996), 10A1039
Nonisothermal polymeric fluids, Rheol Acta 35(2) 103-109 (Apr 1996), 10A1040
Relative magnitudes of viscous, elastic, and texture stresses in liquid crystalline PBG solutions, Rheol Acta 35(2) 150-159 (Apr 1996), 10A1041
Velocity field in nondraining polymer chains, Rheol Acta 35(2) 134-138 (Apr 1996), 10A1042
Out-of-plane orientational dynamics of polymer liquid crystals under flow, J Rheol 40(3) 459-469 (Jun 1996), 11A850
Copolymers promote mixing of immiscible homopolymers, J Rheol 40(4) 663-687 (Aug 1996), 12A999
Deformation tensor model of Brownian suspensions of orientable particles: The nonlinear dynamics of closure models, J Non-Newtonian Fluid Mech 64(1) 43-69 (May 1996), 12A1003
Variational analysis of the squeezing flow of a yield stress fluid, J Non-Newtonian Fluid Mech 63(2-3) 179-199 (Apr 1996), 12A1014

350C. Kinetic and statistical theory

Direct modeling of flow of FENE fluids, Rheol Acta 34(4) 384-396 (Aug 1995), 2A840
Particle method for a self-gravitating fluid: A convergence result, Math Methods Appl Sci 18(13) 1083-1094 (Oct 1995), 3A875
Kinetics of biopolymer gelation: Implications of a cascade theory description for the concentration, molecular weight, and temperature dependences of the shear modulus and gel time, J Rheol 39(6) 1429-1444 (Dec 1995), 4A878
Brownian Dynamics simulation of reversible polymeric networks, J Non-Newtonian Fluid Mech 60(2-3) 303-334 (Nov 1995), 4A927
Extended FENE dumbbell theory for concentration dependent shear-induced anisotropy in dilute polymer solutions, J Non-Newtonian Fluid Mech 62(2-3) 235-251 (Feb 1996), 8A858
Computer simulations of polymer chain relaxation via Brownian motion, J Fluid Mech 308 255-288 (Feb 1996), 8A860
Nonequilibrium velocity distribution of reactive foreign gas: Simulation and phenomenology, Acta Phys Polonica B B27(3) 795-810 (Mar 1996), 9A1035
Rheokinetics of urea-formaldehyde resins gelation, Rheol Acta 35(1) 95-99 (Feb 1996), 9A1036
Macroscopic limit of nuclear friction coefficient, Acta Phys Polonica B B27(1-2) 511-516 (Feb 1996), 10A1043

350D. Non-Newtonian fluids

Cold drawing of elastic-thermoviscoplastic polymeric films and fibers, Rheol Acta 34(3) 288-297 (Jun 1995), 1A957
Solutions for Herschel-Bulkley flows, Quart J Mech Appl Math 48(3) 343-374 (Aug 1995), 1A958
Drag on a sphere in slow shear flow, J Fluid Mech 296 373-390 (Aug 1995), 1A981
Two-fluid model of non-Newtonian blood flow induced by peristaltic waves, Rheol Acta 34(4) 406-414 (Aug 1995), 2A841
Developments and Applications of Non-Newtonian Flows, FED-Vol 231/MD-Vol 66 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N28
Density dependence of fluid properties and non-Newtonian flows: The Weissenberg effect, J Rheol 39(6) 1343-1359 (Dec 1995), 4A879
Direct measurements of slip in sheared polymer solutions, J Fluid Mech 301 133-151 (Oct 1995), 4A880
Influence of temperature on the slip velocity of semidilute xanthan gum solutions, Rheol Acta 34(5) 474-482 (Oct 1995), 4A881
Numerical simulation of viscoelastic flow around a cylinder using an integral constitutive equation, J Rheol 39(6) 1279-1292 (Dec 1995), 4A882
Viscoelastic flow past a confined cylinder of a polyisobutylene solution, J Rheol 39(6) 1243-1277 (Dec 1995), 4A912

Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302 (Kluwer, MA, 1995) 5N27
Hydraulic Fracture Mechanics (Wiley, UK, 1995) 7R29
Flow of Oldroyd-B fluids in curved pipes of circular and annular cross-section, Int J Non-Linear Mech 31(1) 1-20 (Jan 1996), 8A861
Flow of a power-law fluid film on an unsteady stretching surface, J Non-Newtonian Fluid Mech 62(1) 1-8 (Jan 1996), 8A901
Peristaltic transport of a viscoelastic fluid: A long wavelength approximation, Arch Mech 47(6) 1157-1167 (1995), 9A303
Comments on the solutions of boundary value problems in non-Newtonian fluid mechanics, Acta Mech 115(1-4) 231-237 (1996), 9A1037
Effect of temperature on rheological property of fresh cement paste in high flowing concrete (Japanese), J Soc Mat Sci Japan 45(2) 230-234 (Feb 1996), 9A1038
Study on steady surge pressure for yield-pseudoplastic fluid in a concentric annulus, Appl Math Mech 17(1) 15-23 (Jan 1996), 9A1039
Steady Ostwald flow between two differentially-rotating co-axial discs, Rheol Acta 35(1) 48-56 (Feb 1996), 9A1083
Transient rheological behavior of poly-para-phenyleneterephthalamide (PpPTA) in sulphuric acid, Rheol Acta 35(1) 57-68 (Feb 1996), 9A1084
Stability of the shear flow of a viscoelastic fluid with slip along the fixed wall, Rheol Acta 35(1) 39-47 (Feb 1996), 9A1173
Granular-flow rheology: Role of shear-rate number in transition regime, J Eng Mech 122(5) 469-480 (May 1996), 10A1044
Rheology of blood coagulation, Biorheol 33(2) 101-117 (Apr 1996), 10A1045
Experimental study and modeling of oscillating flow of high density polyethylenes, J Rheol 40(3) 383-394 (Jun 1996), 11A851
Generalized engineering Bernoulli equation (GEBE) and the first and second laws of thermodynamics for viscoelastic fluids, J Rheol 40(3) 335-346 (Jun 1996), 11A852
Symmetry groups of boundary layer equations of a class of non-Newtonian fluids, Int J Non-Linear Mech 31(3) 267-276 (May 1996), 11A853
Flow of a fluid of second grade over a stretching sheet, Int J Non-Linear Mech 31(4) 547-550 (Jul 1996), 12A1000
Flow of a yield stress fluid in a long domain: Application to flow on an inclined plane, J Rheol 40(4) 711-723 (Aug 1996), 12A1049
Initial-value problems with inflow boundaries for Maxwell fluids, SIAM J Math Anal 27(4) 914-931 (Jul 1996), 12A1117
Secondary flow of entangled polymer fluids in plane Couette flow, J Rheol 40(4) 549-571 (Aug 1996), 12A1118

350E. Dynamic properties (recoil and stress relaxation)

Bifurcation analysis of a molecular model for nematic polymers in shear flows, J Non-Newtonian Fluid Mech 59(1) 73-91 (Aug 1995), 1A94
Comparison of optical and mechanical measurements of second normal stress difference relaxation following step strain, Rheol Acta 34(3) 221-234 (Jun 1995), 1A959
Dynamics of coaxial torsional resonators consisting of segments with different radii, material properties, and surrounding media, Rheol Acta 34(3) 235-247 (Jun 1995), 1A960
Free damped oscillation of the linear visco-elastic material, Rheol Acta 34(3) 317-320 (Jun 1995), 1A961
Influence of rheological properties of bitumen emulsions on the performance of surface dressing systems, Rheol Acta 34(3) 311-316 (Jun 1995), 1A962
Simple elongational flows which are not simple in reality, J Non-Newtonian Fluid Mech 59(1) 1-10 (Aug 1995), 1A963
Improved algorithm for calculating relaxation time spectra from material functions of polymers with monodisperse and bimodal molar mass distributions, Rheol Acta 34(4) 397-405 (Aug 1995), 2A842
Constitutive equations for polymeric liquids, Annu Rev Fluid Mech 27 169-193 (1995), 2A846
Chaotic rheological parameters of periodically forced suspensions of slender rods in simple shear flow, J Rheol 39(6) 1229-1241 (Dec 1995), 4A883
Comparison of constitutive equations for polymer solutions in uniaxial extension, J Rheol 39(6) 1133-1160 (Dec 1995), 4A884
Complexation induced changes of rheological properties of starch systems at different moisture levels, J Rheol 39(6) 1497-1518 (Dec 1995), 4A885
Effects of molecular weight distribution on dynamic viscoelasticity and biaxial extensional flow behavior of polystyrene melts, J Rheol 39(6) 1385-1397 (Dec 1995), 4A886
Linear viscoelastic properties of ordered latices, J Rheol 39(6) 1183-1200 (Dec 1995), 4A887
Lower bound for the invariants of the configuration tensor for some well known differential models, J Non-Newtonian Fluid Mech 60(2-3) 349-355 (Nov 1995), 4A888
Shear-thickening and flow-induced structure in a system of DMSO containing waxy maize starch, J Rheol 39(6) 1399-1409 (Dec 1995), 4A889
Tentative approach to the direct simulation of drag reduction by polymers, J Non-Newtonian Fluid Mech 60(2-3) 277-301 (Nov 1995), 4A1035
Shear softening and thixotropic properties of wheat flour doughs in dynamic testing at high shear strain, Rheol Acta 34(6) 622-628 (Dec 1995), 5A860
Steady and dynamic shear properties of non-aqueous drag-reducing polymer solutions, Rheol Acta 34(6) 586-600 (Dec 1995), 5A861
Dynamic response of a near-critical polymer blend solution under oscillatory shear flow, J Rheol 40(1) 153-166 (Feb 1996), 6A865
First and second normal stress difference relaxation in reversing double-step strain flows, J Rheol 40(1) 37-54 (Feb 1996), 6A866
Relaxation of shear and normal stresses of nematic liquid crystalline polymers in squeezing and shear flows, J Rheol 40(1) 107-129 (Feb 1996), 6A867
Dynamics of entanglements: A nonlinear model consistent with the Cox-Merz rule, J Non-Newtonian Fluid Mech 62(2-3) 279-289 (Feb 1996), 8A857
Molecular orientation of a liquid-crystalline polymer solution in mixed shear-extensional flows, J Rheol 40(2) 235-257 (Apr 1996), 8A862
Stress jump and network model, J Non-Newtonian Fluid Mech 62(2-3) 307-311 (Feb 1996), 8T863
Talc-thermoplastic compounds: Particle orientation in flow and rheological properties, J Non-Newtonian Fluid Mech 62(2-3) 175-206 (Feb 1996), 8A1301
Experimental investigations on tension and compression properties of an electro-rheological material, J Intelligent Mat Syst Struct 7(1) 89-96 (Jan 1996), 9A1040
Development of oblong particles as precursers for polymer crystallization from shear flow: Origin of the so-called fine grained layers, Rheol Acta 35(2) 127-133 (Apr 1996), 10A1046
Relaxation of concentrated polymer solutions, Rheol Acta 35(2) 168-185 (Apr 1996), 10A1047
Modeling and analysis of woolen yarn extension, Facta Univ Mech Auto Control Robotic 1(5) 645-651 (1995), 12A1001

350F. Volume viscosity

Effects of thermomechanical processing on viscosity behavior of corn starches, J Rheol 39(6) 1483-1495 (Dec 1995), 4A890
Viscosity-temperature behavior of polymer melts, Rheol Acta 34(5) 496-503 (Oct 1995), 4A891
Volume viscosity of dilute polyatomic gas mixtures, Eur J Mech B 14(5) 653-669 (1995), 4A892
Influence of a nonionic surfactant on the rheology of a hydrophobically associating water soluble polymer, J Rheol 40(3) 441-448 (Jun 1996), 11A854
Influence of amylose content on the viscous behavior of low hydrated molten starches, J Rheol 40(3) 347-362 (Jun 1996), 11A855
Gravity granular flows of slightly frictional particles down an inclined bumpy chute, J Fluid Mech 316 197-221 (Jun 1996), 12A1002

350G. Normal stresses (second order)

Continuum dynamic behavior of homogeneous liquid-crystalline polymers under the imposition of shearand magnetic fields, J Rheol 39(6) 1161-1181 (Dec 1995), 4A893
Stress jump and network model, J Non-Newtonian Fluid Mech 62(2-3) 307-311 (Feb 1996), 8T863

350H. Flow birefringence

Dynamic optical birefringence: New possibilities in polymer characterization, J Thermal Anal 45(4) 891-902 (Oct 1995), 4A894
Molecular orientation of a liquid-crystalline polymer solution in mixed shear-extensional flows, J Rheol 40(2) 235-257 (Apr 1996), 8A862
Structure and rheology of wormlike micelles, Rheol Acta 35(2) 139-149 (Apr 1996), 10A1048

350I. Colloids and suspensions

Electrorheological property of a polyaniline-coated copolystyrene particle suspension, Rheol Acta 34(3) 298-302 (Jun 1995), 1A964
Negative thixotropy in ferric-oxide suspensions, Rheol Acta 34(3) 303-310 (Jun 1995), 1A965
Nonlocal theory for stress in bound, Brownian suspensions of slender, rigid fibers, J Fluid Mech 296 271-324 (Aug 1995), 1A966
Simple shear flows of dilute gas-solid suspensions, J Fluid Mech 296 211-245 (Aug 1995), 1A967
Apparent wall slip velocity coefficients in concentrated suspensions of noncolloidal particles, J Rheol 39(6) 1123-1132 (Dec 1995), 4A895
Application of the calorimetry to studies of colloidal phenomena: Enthalpies of micellization and enthalpies of adsorption of zwitterionic surfactants onto silica gel, J Thermal Anal 45(4) 781-789 (Oct 1995), 4A896
Effects of nonuniform electric field on slit flow of an electrorheological fluid, J Rheol 39(6) 1327-1341 (Dec 1995), 4A897
Microstructural investigation of the nonlinear response of electrorheological suspensions - I: Start-up of steady shear flow, Rheol Acta 34(5) 417-429 (Oct 1995), 4A898
Microstructural investigation of the nonlinear response of electrorheological suspensions - Part II: Oscillatory shear flow, Rheol Acta 34(5) 430-439 (Oct 1995), 4A899
Shear-induced microstructural changes in flocculated suspensions of fumed silica, J Rheol 39(6) 1311-1325 (Dec 1995), 4A900
Thixotropy model for coal-water mixtures, J Non-Newtonian Fluid Mech 60(2-3) 259-275 (Nov 1995), 4A909
Yield stress and maximum packing fraction of concentrated suspensions, Rheol Acta 34(6) 544-561 (Dec 1995), 5A862
Ultrafine ceramic powder injection moulding: The role of dispersants, J Rheol 40(1) 131-152 (Feb 1996), 6A868
Particle adhesion and removal: A review, Particulate Sci Tech 13(3-4) 169-196 (Dec 1995), 7A1037
Examination of the composite model for starch gels, J Rheol 40(2) 221-234 (Apr 1996), 8A864
Orientation in simple shear flow of semi-dilute fiber suspensions - 1: Weakly elastic fluids, J Non-Newtonian Fluid Mech 62(2-3) 115-134 (Feb 1996), 8A865
Orientation in simple shear flow of semi-dilute fiber suspensions - 2: Highly-elastic fluids, J Non-Newtonian Fluid Mech 62(2-3) 135-153 (Feb 1996), 8A866
Adaptation of a beta radiation scattering method to the investigation of the flocculation process, Arch Gornictwa 40(4) 517-528 (1995), 9A1041
Stability of some shear flows for concentrated suspensions, Rheol Acta 35(1) 69-75 (Feb 1996), 9A1042
Effect of blending particles with different conductivity on electrorheological properties, J Rheol 40(3) 395-403 (Jun 1996), 11A856
Flow characteristics of concentrated emulsions of very viscous oil in water, J Rheol 40(3) 405-423 (Jun 1996), 11A857
Thermodynamic considerations on the electrorheology of noncolloidal suspensions, J Rheol 40(3) 449-458 (Jun 1996), 11A858
Stokesian dynamics simulation of Brownian suspensions, J Fluid Mech 313 181-207 (Apr 1996), 11A930
Deformation tensor model of Brownian suspensions of orientable particles: The nonlinear dynamics of closure models, J Non-Newtonian Fluid Mech 64(1) 43-69 (May 1996), 12A1003
Entrance length and pulsatile flows of a model concentrated suspension, J Rheol 40(4) 521-529 (Aug 1996), 12A1004
Shear thickening in model suspensions of sterically stabilized particles, J Rheol 40(4) 531-548 (Aug 1996), 12A1005
Thixotropic colloidal suspensions and flow curves with minimum: Identification of flow regimes and rheometric consequences, J Rheol 40(4) 573-587 (Aug 1996), 12A1006

350J. Liquid crystals

Convection instabilities in nematic liquid crystals, Annu Rev Fluid Mech 27 515-541 (1995), 2A843
Non-isothermal Poiseuille flow of a liquid crystalline material - 1: Flow-aligning nematic, J Non-Newtonian Fluid Mech 59(2-3) 155-172 (Sep 1995), 2A844
Non-isothermal Poiseuille flow of a liquid crystalline material - 2: Tumbling nematic, J Non-Newtonian Fluid Mech 59(2-3) 173-190 (Sep 1995), 2A845
Simulation of mechanical response in crystallizing polymers: Crystallization under a constant shear force, Acta Mech 112(1-4) 59-76 (1995), 3A876
Free boundary value problem of nematic liquid crystals with variable degree of orientation, Nonlinear Anal 26(2) 149-169 (Jan 1996), 4T901
Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, JSME Int J Ser B 38(4) 576-581 (Nov 1995), 4A902
Crystalline Saffman-Taylor fingers, SIAM J Appl Math 55(6) 1511-1535 (Dec 1995), 4A937
Comparison of trichromic systems for use in the calibration of polymer-dispersed thermochromic liquid crystals, Exp Thermal Fluid Sci 12(1) 1-12 (Jan 1996), 6T869
Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, J Phys Soc Japan 65(1) 64-89 (Jan 1996), 7A1040
Hydrodynamic theory of compressible SmC× liquid crystals, J Phys Soc Japan 65(1) 100-106 (Jan 1996), 7A1041
Continua described by a microstructural field, Z Angew Math Phys 47(1) 168-175 (Jan 1996), 8A4
Relationship between tribological performance of liquid crystals and their molecular structure, Trib Int 29(1) 35-39 (Feb 1996), 8T788
Rotation of liquid crystalline macromolecules in shear flow and shear-induced periodic orientation patterns, Rheol Acta 35(2) 160-167 (Apr 1996), 10A1049
Structure and physical properties of liquid crystals, Japan J Trib 40(6) 539-549 (1995), 12A1007

350M. Material characterization and models

Generalized Rouse model for a dilute solution of clustered polymers, Rheol Acta 34(3) 274-280 (Jun 1995), 1A968
Rheological modeling of viscoelastic polymer liquids with stable constitutive equations, Rheol Acta 34(3) 259-273 (Jun 1995), 1A969
Constitutive equations for polymeric liquids, Annu Rev Fluid Mech 27 169-193 (1995), 2A846
Rheological modeling of filled polymers with particle-matrix interactions, Rheol Acta 34(4) 329-338 (Aug 1995), 2A847
Direct measurements of slip in sheared polymer solutions, J Fluid Mech 301 133-151 (Oct 1995), 4A880
Lower bound for the invariants of the configuration tensor for some well known differential models, J Non-Newtonian Fluid Mech 60(2-3) 349-355 (Nov 1995), 4A888
Characterization of micellar structure dynamics for a drag-reducing surfactant solution under shear: Normal stress studies and flow geometry effects, Rheol Acta 34(5) 450-460 (Oct 1995), 4A903
Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, J Rheol 39(6) 1411-1425 (Dec 1995), 4A904
Dynamic rheological method to study the interaction between starch and lipids, J Rheol 39(6) 1519-1534 (Dec 1995), 4A905
Simulation of the nonlinear rheological properties of gluten dough using the Wagner constitutive model, J Rheol 39(6) 1465-1482 (Dec 1995), 4A906
Small and large deformation studies of protein gels, J Rheol 39(6) 1445-1450 (Dec 1995), 4A907
Structure-property relationships in food biopolymer gels and solutions, J Rheol 39(6) 1451-1463 (Dec 1995), 4A908
Thixotropy model for coal-water mixtures, J Non-Newtonian Fluid Mech 60(2-3) 259-275 (Nov 1995), 4A909
Uniformly valid approximations for the conformational integrals resulting from Gaussian closure in the Hookean dumbbell model with internal viscosity, J Rheol 39(6) 1361-1384 (Dec 1995), 4A910
Use of coupled birefringence and LDV studies of flow through a planar contraction to test constitutive equations for concentrated polymer solutions, J Rheol 39(6) 1201-1228 (Dec 1995), 4A911
Viscoelastic flow past a confined cylinder of a polyisobutylene solution, J Rheol 39(6) 1243-1277 (Dec 1995), 4A912
Constant flow rate problem for fluids with increasing yield stress in a pipe, Theor Comput Fluid Dyn 7(6) 477-493 (1995), 5A863
Constitutive model in finite viscoelasticity, Rheol Acta 34(6) 562-577 (Dec 1995), 5A864
Determination of critical molecular weight for entangled macromolecules using the tensile strength data, Rheol Acta 34(6) 578-585 (Dec 1995), 5A865
Drop deformation during elongational flow in blends of viscoelastic fluids: Small deformation theory and comparison with experimental results, Rheol Acta 34(6) 525-533 (Dec 1995), 5A866
Rheology and processing of salad dressing emulsions, Rheol Acta 34(6) 513-524 (Dec 1995), 5A867
Carpet fibers from poly-e-caprolactam with improved elastic properties, Fibres Textiles in E Europe 2(3) 34-37 (Sep 1994), 6A456
New process for the production of hydrocellulose fibers without using carbon disulfide, Fibres Textiles in E Europe 2(4) 35-39 (Dec 1994), 6A870
Sliding plate rheometer studies of concentrated polystyrene solutions: Large amplitude oscillatory shear of a very high molecular weight polymer in diethyl phthalate, J Rheol 40(1) 167-186 (Feb 1996), 6A871

Structure and molecular correlation of liquid alkanes, Acta Phys Polonica A 88(6) 1089-1096 (Dec 1995), 6A872
Thermodynamic constitutive equations for materials with memory on a material time scale, J Rheol 40(1) 69-109 (Feb 1996), 6A1064
Three-dimensional phase transformation model for shape memory alloys, J Intelligent Mat Syst Struct 6(6) 831-839 (Nov 1995), 7A324
Ramified structures of magnetic suspensions, J Intelligent Mat Syst Struct 6(6) 854-859 (Nov 1995), 7A683
Fast mechanical characterization of an epoxy composite, Exp Tech 20(1) 7 (Feb 1996), 7T1042
Experimental study of shear-induced migration of polymers in dilute solutions, J Rheol 40(2) 259-283 (Apr 1996), 8A867
Melt rheology of zinc alkali phosphate glasses, J Rheol 40(2) 285-302 (Apr 1996), 8A868
Tests of constitutive equations for entangled polymers based on planar-extension flow histories in a periodically-constricted channel, Rheol Acta 35(1) 24-38 (Feb 1996), 9A1043
Structure and rheology of wormlike micelles, Rheol Acta 35(2) 139-149 (Apr 1996), 10A1048
Rheotens-mastercurves and elongational viscosity of polymer melts, Rheol Acta 35(2) 117-126 (Apr 1996), 10A1050
Stability of molecular weight distributions as computed from the flow curves of polymer melts, J Rheol 40(3) 363-382 (Jun 1996), 11A859
Bead-spring model incorporating cyclic structures, non-equal springs and beads with non-equal friction coefficients, J Rheol 40(4) 589-612 (Aug 1996), 12A1008
Component predictions and the relaxation spectrum of the double reptation mixing rule for polydisperse linear flexible polymers, J Rheol 40(4) 633-661 (Aug 1996), 12A1009
Relationship between rheology and morphology of model blends in steady shear flow, J Rheol 40(4) 613-631 (Aug 1996), 12A1010
Rheological characterization of Hanford neutralized current acid waste simulant slurries, J Rheol 40(4) 483-495 (Aug 1996), 12A1011
Rheology of long-chain randomly branched polybutadiene, J Rheol 40(4) 689-709 (Aug 1996), 12A1012
Transient rheological behavior of a long discontinuous fiber-melt system, J Rheol 40(4) 497-519 (Aug 1996), 12A1013
Variational analysis of the squeezing flow of a yield stress fluid, J Non-Newtonian Fluid Mech 63(2-3) 179-199 (Apr 1996), 12A1014

350Y. Computational techniques

Boundary Element Applications in Fluid Mechanics (Comput Mech, Billerica MA, 1995) 2R30
Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, JSME Int J Ser B 38(4) 576-581 (Nov 1995), 4A902
Brownian Dynamics simulation of reversible polymeric networks, J Non-Newtonian Fluid Mech 60(2-3) 303-334 (Nov 1995), 4A927
Computer simulations of polymer chain relaxation via Brownian motion, J Fluid Mech 308 255-288 (Feb 1996), 8A860
Conversion of oscillatory shear data from highly-filled polymers by direct numerical integration, Rheol Acta 35(1) 83-94 (Feb 1996), 9A1044
Extrudate swell through an orifice die, Rheol Acta 35(1) 1-12 (Feb 1996), 9A1045
Numerical simulation of flow of highly viscoelastic flow in 3D varying thick slit channel, Appl Math Mech 17(3) 247-255 (Mar 1996), 11A860
Subdomain residual method for a posteriori error estimates of FE solutions of viscoelastic fluid flows, Comput Methods Appl Mech Eng 130(1-2) 93-113 (Mar 1996), 12A1015

350Z. Experimental techniques

Automated high-pressure, high temperature, low-frequency viscometer, Rheol Acta 34(3) 248-258 (Jun 1995), 1A970
Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, Rheol Acta 34(5) 440-449 (Oct 1995), 4A913
Multipass rheometer, J Rheol 39(6) 1293-1309 (Dec 1995), 4A914
Oscillating plate viscometer in the Hz to kHz range, Rheol Acta 34(5) 483-495 (Oct 1995), 4A915
Determination of yield stress fluid behavior from inclined plane test, Rheol Acta 34(6) 534-543 (Dec 1995), 5A868
Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, Rheol Acta 34(6) 606-621 (Dec 1995), 5A869
Comparison of trichromic systems for use in the calibration of polymer-dispersed thermochromic liquid crystals, Exp Thermal Fluid Sci 12(1) 1-12 (Jan 1996), 6T869
Sliding plate rheometer studies of concentrated polystyrene solutions: Large amplitude oscillatory shear of a very high molecular weight polymer in diethyl phthalate, J Rheol 40(1) 167-186 (Feb 1996), 6A871
Thermal infrared analysis of plastics under monoaxial loads, Exp Tech 20(1) 9-13 (Feb 1996), 7A1043
Effect of Taylor diffusion on the dynamic response of an on-line capillary viscometer, J Non-Newtonian Fluid Mech 62(2-3) 225-234 (Feb 1996), 8A869
Origin of nonlincarities in the Bagley plots of thermotropic copolyesters, J Rheol 40(2) 203-219 (Apr 1996), 8A870
Experimental investigations on tension and compression properties of an electro-rheological material, J Intelligent Mat Syst Struct 7(1) 89-96 (Jan 1996), 9A1040
Adaptation of a beta radiation scattering method to the investigation of the flocculation process, Arch Gornictwa 40(4) 517-528 (1995), 9A1041
Applications of maximum entropy method in capillary viscometry, Rheol Acta 35(1) 76-82 (Feb 1996), 9A1046
Effects of electrode morphology on the slit flow of an electrorheological fluid, J Non-Newtonian Fluid Mech 63(1) 45-61 (Mar 1996), 10A1051
Experimental observations on the pressure-dependent polymer melt rheology of linear low-density polyethylene, using a multi-pass rheometer, Rheol Acta 35(2) 202-209 (Apr 1996), 10A1052
Influence of polymer conformation on the entrance length in capillary flow, Rheol Acta 35(2) 194-201 (Apr 1996), 10A1053
Molecular correlations in liquid mono-and Dichloroalkanes, Acta Phys Polonica A 89(4) 547-554 (Apr 1996), 10A1054
On-line measurement of elasticity and viscosity in flowing polymeric liquids, Rheol Acta 35(2) 110-116 (Apr 1996), 10A1055
Anomalies in the normal force measurement when using a force rebalance transducer, J Rheol 40(3) 323-334 (Jun 1996), 11A861
Empirical methods to predict Vickers microhardness, Wear 193(1) 91-98 (Apr 1996), 11A862
Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, J Rheol 40(3) 425-440 (Jun 1996), 11A863
Transient extensional viscosity from a rotational shear rheometer using fiber-windup technique, J Rheol 40(4) 473-481 (Aug 1996), 12A1016

352. HYDRAULICS

352A. General theory

Fundamentals of Hydraulic Engineering Systems, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 4R23
Fluid Mechanics, Fourth Edition (Prentice-Hall, Englewood Cliffs NJ, 1996) 6N29

352B. Closed conduit flow

International Pressure Vessels and Piping Codes and Standards - Current Applications, Volume 1 - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N43
Approximate wall shear equation for unsteady laminar pipe flows, J Hydraul Res 33(4) 457-469 (1995), 2T848
Formation Invasion - With applications to measurement-while-drilling, time lapse analysis, and formation damage (Gulf Publ, Houston, 1995) 3R47
Experimental study of the discharge coefficient of pipe perforations, Exp Fluids 19(5) 348-352 (Sep 1995), 3A877
Unsteady flow in installations with polymeric additional pipe, J Hydraul Eng 121(11) 802-811 (Nov 1995), 3T878
Fundamentals of Hydraulic Engineering Systems, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 4R23
Permeability of 3D models of fibrous porous media, J Fluid Mech 300 341-361 (Feb 1996), 8A871
Water Hydraulics Control Technology (Marcel Dekker, New York, 1996) 9N23
Forced unidirectional infiltration of deformable porous media, J Fluid Mech 311 193-217 (Mar 1996), 9A1047
Wall shear stress in accelerating and decelerating turbulent pipe flows, J Hydraul Res 34(2) 173-183 (1996), 12T1017

352C. Open channel flow (incl hydraulic jumps)

Open-channel flow model approximation for controller design, Appl Math Model 19(9) 525-530 (Sep 1995), 1A971
Effect of baffles on submerged flows, J Hydraul Eng 121(9) 644-652 (Sep 1995), 1A974
Calibration of riverbed roughness, J Hydraul Eng 121(9) 664-671 (Sep 1995), 1T980
Finite element model for high-velocity channels, J Hydraul Eng 121(10) 710-716 (Oct 1995), 2T14
Longitudinal and transverse variations of the bed shear stress on the wetted perimeter of a sloped rectangular open channel in a hydraulic jump, Acta Mech 111(3-4) 141-150 (1995), 2A849
Velocity-depth coupling in shallow-water flows, J Hydraul Eng 121(10) 717-724 (Oct 1995), 2A850
Sediment-laden flow in open channels from two-phase flow viewpoint, J Hydraul Eng 121(10) 725-735 (Oct 1995), 2A862
Free-surface stability criterion as affected by velocity distribution, J Hydraul Eng 121(10) 736-743 (Oct 1995), 2T977
Incipient channels formed at the downstream end of plateaux (Japanese), Proc JSCE 521(II-32) 79-91 (Aug 1995), 3A879
Lateral shear in wide compound duct, J Hydraul Eng 121(11) 829-832 (Nov 1995), 3T880
Numerical study of turbulent structure over stip roughness in open channel flow using a low Reynolds number turbulence model, Proc JSCE 521(II-32) 227-237 (Aug 1995), 3A881
Fundamentals of Hydraulic Engineering Systems, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1996) 4R23
Accuracy of the stationary forced Korteweg-de Vries equation as a model equation for flows over a bump, Quart Appl Math 53(4) 701-719 (Dec 1995), 4A256
Bed-shear stress in non-uniform and unsteady open-channel flows, J Hydraul Res 33(5) 699-704 (1995), 4T916
Diffusion properties of oiled wastewater in open channel, J Hydrodyn 7(3) 32-38 (1995), 4A917
Non-breaking undular hydraulic jump, J Hydraul Res 33(5) 683-698 (1995), 4A918
Transient storage equations for longitudinal solute transport in open channels: Temporal moments accounting for the effects of first-order decay, J Hydraul Res 33(5) 595-610 (1995), 4T919
Uniform flow in open channels with steep slopes, J Hydraul Res 33(5) 705-719 (1995), 4T920
Size distributions of coarse sand bed load in turbulent flow field, J Hydrodyn 7(3) 1-6 (1995), 4T925
Distribution of turbulent velocity fluctuations in a natural river, J Hydraul Res 33(5) 649-661 (1995), 4A926
Critical submergence for intakes in open channel flow, J Hydraul Eng 121(12) 900-905 (Dec 1995), 6T871
Numerical model of flow in ice-covered channel, J Hydraul Eng 122(1) 19-26 (Jan 1996), 6A874
Vertically averaged and moment equations model for flow over curved beds, J Hydraul Eng 122(1) 3-9 (Jan 1996), 6T875
Numerical model of turbulent flow over sand dune, J Hydraul Eng 122(1) 10-18 (Jan 1996), 6A878
Effects of rectangular foundation geometry on local pier scour, J Hydraul Eng 122(1) 35-40 (Jan 1996), 6T883
Analysis of bivariate censored low flows, J Hydraul Eng 122(2) 97-103 (Feb 1996), 6T887
First- and second-order flux difference splitting schemes for dam-break problem, J Hydraul Eng 121(12) 877-884 (Dec 1995), 6A890
Numerical scheme for steady, supercritical flows with boundary fitted coordinates, Int J Numer Methods Heat & Fluid Flow 5(10) 923-931 (Dec 1995), 6A893
Efficient Riemann solver for open channel flows, Commun Numer Methods Eng 12(1) 13-20 (Jan 1996), 7A1044
Experimental and numerical assessment of the shallow water model for 2D dam-break type problems, J Hydraul Res 33(6) 843-864 (1995), 7T1045
Large eddy simulation of a symmetric trapezoidal channel at a Reynolds number of 430,000, J Hydraul Res 33(6) 825-842 (1995), 7T1046
Stability of river bifurcations in 1D morphodynamic models, J Hydraul Res 33(6) 739-750 (1995), 7T1050
Computation of a dam-break flood wave in channel transitions, Adv Water Resources 19(3) 181-187 (Jun 1996), 8A872
Velocity and turbulence distribution in unsteady open-channel flows, J Hydraul Eng 122(3) 141-154 (Mar 1996), 8T873
Experimental and computational study of channelized water waves generated by a porous body, Acta Mech 115(1-4) 133-149 (1996), 9A295
Forced unidirectional infiltration of deformable porous media, J Fluid Mech 311 193-217 (Mar 1996), 9A1047
Environmental hydraulics: New research directions for the 21st century, J Hydraul Eng 122(4) 180-183 (Apr 1996), 9A1048
Turbulent coherent structures in the near wall region of open channel flows, Ingenieria Hidraul Mex 11(1) 5-13 (Apr 1996), 10T1056
Internal hydraulic jumps at T-junctions, J Fluid Mech 314 331-347 (May 1996), 11A864
Energy Dissipators - IAHR Hydraulic Structures Design Manuals 9 (Balkema, Rotterdam, Netherlands, 1995) 12N40
Applications of conformal mapping to diverging open channel flows, J Eng Math 30(3) 355-363 (May 1996), 12A1018
Standing waves at an outfall, J Hydraul Res 34(2) 147-160 (1996), 12T1019
Point bar deposits in narrow sharp bends, J Hydraul Res 34(2) 205-218 (1996), 12T1028

352D. Pipe losses (friction and geometry)

Transient flows and pressure waves in pipes, J Hydrodyn 7(2) 51-59 (1995), 1T972
Computation of the most economical pipe diameter for pumping plant discharge (Spanish), Ingenieria Hidraul Mex 10(1) 49-53 (1995), 2T851
Generalized method for the solution of flows in networks, J Hydraul Res 33(4) 535-554 (1995), 2T852
Simultaneous solution for flood routing in channel networks, J Hydraul Eng 121(10) 744-750 (Oct 1995), 2T864
Experimental study of the discharge coefficient of pipe perforations, Exp Fluids 19(5) 348-352 (Sep 1995), 3A877
Reliability-based design of water-distribution systems, J Env Eng 122(1) 51-54 (Jan 1996), 6T876
Effects of two-dimensionality on pipe transients modeling, J Hydraul Eng 121(12) 906-912 (Dec 1995), 6A877
Analysis of water distribution systems using a perturbation method, Appl Math Model 20(4) 290-297 (Apr 1996), 9A1426
Pressure drop in corrugated pipes, J Fluids Eng 118(2) 409-410 (Jun 1996), 12A1119

352E. Unsteady flow

Transient flows and pressure waves in pipes, J Hydrodyn 7(2) 51-59 (1995), 1T972
Sheet flow and suspension of sand in oscillatory boundary layers, Coastal Eng 25(3-4) 205-225 (Jul 1995), 2T853
Effects of two-dimensionality on pipe transients modeling, J Hydraul Eng 121(12) 906-912 (Dec 1995), 6A877
Modeling hydrodynamic nonequilibrium in cavitating flows, J Fluids Eng 118(1) 172-178 (Mar 1996), 9A1050
Sediment suspension in oscillatory flow: Measurements of instantaneous concentration at high shear, Coastal Eng 27(1-2) 67-96 (May 1996), 12A1026

352F. Stratified flow

Supercritical withdrawal from a two-layer fluid through a line sink, J Fluid Mech 297 37-47 (Aug 1995), 2A854
Modeling of 1D turbidity currents with a dissipative-Galerkin FEM, J Hydraul Res 33(5) 623-648 (1995), 4T921
Techniques in numerical simulation of coastal aquifiers with salt intrusion (Spanish), Ingenieria Hidraul Mex 10(2) 39-44 (1995), 4T922
Fourth Int Symposium on stratified flows held at Univ Joseph Fourier, Grenoble, June 29 - July 2, 1994, Dyn Atmos Oceans 23(1-4) 1-411 (Jan 1996), 7A1061
Entrainment into 2D and axisymmetric turbulent gravity currents, J Fluid Mech 308 289-311 (Feb 1996), 8A874
Fourth International Symposium on Stratified Flows: Part B, University Joseph Fourier, Grenoble, June 29 - July 2, 1994, Dyn Atmos Oceans 24(1-4) 1-256 (Jan 1996), 8A875
Generalized constitutive equation for creep of polymers at multi-axial loading, Mech of Composite Mat T31(6) 723-733 (Dec 1995), 8A876
Environmental hydraulics: New research directions for the 21st century, J Hydraul Eng 122(4) 180-183 (Apr 1996), 9A1048
Dynamics of turbidity current with reversing buoyancy, J Hydraul Eng 122(5) 230-236 (May 1996), 10A1058
Initial response of a stratified lake to a surface shear stress, J Fluid Mech 312 39-66 (Apr 1996), 10A1442

352G. Obstructions

Uniform flow in open channels with steep slopes, J Hydraul Res 33(5) 705-719 (1995), 4T920
Turbulent free-surface flow over sills, J Hydraul Res 33(5) 663-682 (1995), 4A923
Vertically averaged and moment equations model for flow over curved beds, J Hydraul Eng 122(1) 3-9 (Jan 1996), 6T875
Numerical model of turbulent flow over sand dune, J Hydraul Eng 122(1) 10-18 (Jan 1996), 6A878
Bridge abutment scour in compound channels, J Hydraul Eng 121(12) 863-868 (Dec 1995), 6T880
Clear water scour at circular piers: A model, J Hydraul Eng 121(12) 869-876 (Dec 1995), 6T881
Modeling uncertainty in prediction of pier scour, J Hydraul Eng 122(2) 66-72 (Feb 1996), 6A886
Numerical computation of critical flow over a spillway by means of minimization of violation of negative curvature condition, Int J Numer Methods Fluids 22(3) 151-173 (Feb 1996), 7A1053
Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, J Fluids Struct 10(1) 79-98 (Jan 1996), 8A877
Field Measurement of boulder flow drag, J Hydraul Eng 122(3) 167-169 (Mar 1996), 8T895
Type of floating breakwater for lowering long-crested wave transmissivity for deep water applications (Chinese), J Dalian Univ Tech 36(2) 246-247 (Mar 1996), 9A1049
Internal hydraulic jumps at T-junctions, J Fluid Mech 314 331-347 (May 1996), 11A864

352H. Orifices, nozzles, valves, and gates

Energy loss at drops, J Hydraul Res 33(3) 373-384 (1995), 1T973
Impedance characteristics of hydraulic orifices, J Syst Control Eng 209(I4) 241-253 (1995), 6A336
Fatigue-energy model of exhaust valve erosion, J Machinery Manuf Reliab 3 51-57 (1995), 6A879
Experimental and numerical assessment of the shallow water model for 2D dam-break type problems, J Hydraul Res 33(6) 843-864 (1995), 7T1045
Modeling and simulation of a proportional solenoid valve, J Dyn Syst Meas Control 118(1) 120-125 (Mar 1996), 9A437
Adiabatic capillary tube expansion devices: A comparison of the homogeneous flow and the separated flow models, Appl Thermal Eng 16(7) 625-634 (Jul 1996), 11A865
Determination of component motions in a motor-operated valve using housing vibration, Mech Syst Signal Processing 10(2) 113-123 (Mar 1996), 11A866
Two-position thermal valve gear, J Machinery Manuf Reliab 1 13-16 (1996), 12T419
New high supply pressure pneumatic flapper-nozzle with linear behavior, J Dyn Syst Meas Control 118(2) 259-266 (Jun 1996), 12A427
Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, JSME Int J Ser C 39(2) 203-211 (Jun 1996), 12A1020
Advanced methods for producing ultradispersed particles in high-speed flows, J Machinery Manuf Reliab 1 79-83 (1996), 12A1187

352I. Forces on hydraulic structures

Force on a circular cylinder in an elliptical orbital flow at low Keulegan-Carpenter numbers, J Fluids Struct 9(6) 617-638 (Aug 1995), 1A247
Shape optimization of elliptical road containers due to liquid load in steady-state turning, Vehicle Syst Dyn 25(3) 203-221 (Mar 1996), 8A837
Groin area water exchange, J Hydraul Res 34(2) 161-172 (1996), 12A1021

352J. Wave loads on structures

Potential Flow of Fluids - Advances in Fluid Mechanics Series, vol 6 (Comput Mech, Billerica MA, 1995) 1N32
Efficient numerical calculation of wave loads on an array of vertical cylinders, Appl Math Model 20(1) 26-33 (Jan 1996), 5A870
Loading on a vertical cylinder in multidirectional waves, J Offshore Mech Arctic Eng 117(3) 151-158 (Aug 1995), 5A871
Analysis of forces due to irregular waves exerted on a ship near a harbor entrance, Marine Struct 9(6) 609-629 (1996), 7A1047
Wave Forces on Inclined and Vertical Wall Structures (ASCE, 1995) 8N31
Floating membrane breakwater, J Offshore Mech Arctic Eng 118(1) 46-52 (Feb 1996), 8A221
Current effect for wave forces on bipile in tandem array (Chinese), J Dalian Univ Tech 35(5) 714-718 (Oct 1995), 8A878
Wave-induced seepage action on cylinder resting on deformable foundation (Chinese), J Dalian Univ Tech 35(5) 709-713 (Oct 1995), 8A1308
Diffraction of waterwaves on a horizontal cylinder (German), Z Angew Math Mech 76(3) 167-174 (1996), 10A294
Offshore Breakwaters and Shore Evolution Control (Balkema, Rotterdam, Netherlands, 1996) 12N42
Vertical wave excitation for bodies in revolution, Ship Tech Res 43(2) 70-77 (May 1996), 12A1022

352K. Stilling basins and other energy dissipators

Energy loss at drops, J Hydraul Res 33(3) 373-384 (1995), 1T973
Effect of baffles on submerged flows, J Hydraul Eng 121(9) 644-652 (Sep 1995), 1A974
Type of floating breakwater for lowering long-crested wave transmissivity for deep water applications (Chinese), J Dalian Univ Tech 36(2) 246-247 (Mar 1996), 9A1049

352L. Cavitation

Two-phase modeling of cavitated flows, Comput Fluids 24(7) 799-809 (Sep 1995), 2A855
High-speed observations of highly erosive vortex cavitation using image processing, J Flow Visualization Image Proc 2(2) 161-172 (1995), 5T872
Preliminary investigation of the use of air injection to mitigate cavitation erosion, J Fluids Eng 117(3) 498-504 (Sep 1995), 5A873
Theoretical analysis and experimental study of speed effect of incipient cavitation erosion number (Chinese), J Dalian Univ Tech 35(3) 405-409 (Jun 1995), 8A879
Modeling hydrodynamic nonequilibrium in cavitating flows, J Fluids Eng 118(1) 172-178 (Mar 1996), 9A1050
Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, J Fluids Eng 118(2) 400-408 (Jun 1996), 12A1023

352M. Erosion, scouring, sediment transport

Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995 (Comput Mech, Billerica MA, 1995) 1N27
Effect of turbulence on sediment deposition, J Hydraul Res 33(3) 349-360 (1995), 1A975
Evalutation of runoff and erosion loss in micro-basins utilizing the hydrodynamic model WESP, Adv Eng Software 22(2) 79-85 (1995), 1A976
Incipient fluidization of fine sands in deep seabed, J Hydraul Eng 121(9) 653-656 (Sep 1995), 1A977
Mechanics of riprap failure at bridge piers, J Hydraul Eng 121(9) 635-643 (Sep 1995), 1A978
Sand-dune geometry of large rivers during floods, J Hydraul Eng 121(9) 657-663 (Sep 1995), 1T979
Design of alluvial channels using the Einstein and the Colby-Hembree methods, Asian J Struct Eng 1(2) 149-174 (1995), 2A856
Effects of wave asymmetry on sheet flow, Coastal Eng 25(3-4) 191-204 (Jul 1995), 2T857
Erodibility, J Hydraul Res 33(4) 471-494 (1995), 2T858
Initial motion of sediment under waves and wave-current combined motions, Coastal Eng 25(3-4) 153-163 (Jul 1995), 2A859
Numerical study of the wave-induced solute transport above a rippled bed, J Fluid Mech 299 267-288 (Sep 1995), 2A860
Sea ripple formation: The heterogeneous sediment case, Coastal Eng 25(3-4) 237-253 (Jul 1995), 2T861
Sediment-laden flow in open channels from two-phase flow viewpoint, J Hydraul Eng 121(10) 725-735 (Oct 1995), 2A862
Albert Shields story, J Hydraul Eng 121(11) 766-772 (Nov 1995), 3A882
Application of a non-equilibrium suspended sediment model into the Tonyu-Gawa river (Japanese), Proc JSCE 521(II-32) 217-225 (Aug 1995), 3T883
Discretization of a model for the formation of longshore sand ridges, J Comput Phys 122(1) 129-142 (Nov 1995), 3T884
Long-term simulation of fine-grained sediment transport in large reservoir, J Hydraul Eng 121(11) 773-781 (Nov 1995), 3T885
Field observation of suspended sand concentration near the breaking point (Japanese), Proc JSCE 521(II-32) 135-144 (Aug 1995), 3A888
Numerical simulation of surface-sheared-sand layer (Japanese), Proc JSCE 521(II-32) 101-112 (Aug 1995), 3A889
Non-uniform sediment transport: Dynamics of the active layer, J Hydraul Res 33(5) 611-622 (1995), 4A924
Size distributions of coarse sand bed load in turbulent flow field, J Hydrodyn 7(3) 1-6 (1995), 4T925
Bridge abutment scour in compound channels, J Hydraul Eng 121(12) 863-868 (Dec 1995), 6T880
Clear water scour at circular piers: A model, J Hydraul Eng 121(12) 869-876 (Dec 1995), 6T881
Design of class-I sedimentation tanks, J Env Eng 122(1) 71-73 (Jan 1996), 6T882
Effects of rectangular foundation geometry on local pier scour, J Hydraul Eng 122(1) 35-40 (Jan 1996), 6T883
Fine suspended sediment transport rates, J Hydraul Eng 121(12) 919-922 (Dec 1995), 6A884
Longitudinal streaks, J Fluid Mech 304 161-183 (Dec 1995), 6A885
Modeling uncertainty in prediction of pier scour, J Hydraul Eng 122(2) 66-72 (Feb 1996), 6A886
Wave equation over permeable rippled bed and analysis of Bragg scattering of surface gravity waves, J Hydraul Res 33(6) 789-812 (1995), 7A270
Experiments on motion of sediment mixtures in a tumbling mill to study fluvial abrasion, J Hydraul Res 33(6) 751-772 (1995), 7T1048
Sediment transport near the break point associated with cross-shore gradients in vertical eddy diffusivity, Coastal Eng 26(3-4) 153-175 (Dec 1995), 7T1049
Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, Coastal Eng 26(3-4) 117-134 (Dec 1995), 7A1052
Risk of dike failure due to flow slides, Coastal Eng 26(3-4) 241-249 (Dec 1995), 7A1352
Theoretical analysis and experimental study of speed effect of incipient cavitation erosion number (Chinese), J Dalian Univ Tech 35(3) 405-409 (Jun 1995), 8A879
Effects of a liquefied mud bed on wave and flow characteristics, J Hydraul Res 34(1) 3-18 (1996), 8T880
Prediction of bed-load transport by desert flash floods, J Hydraul Eng 122(3) 170-173 (Mar 1996), 8A881
Environmental hydraulics: New research directions for the 21st century, J Hydraul Eng 122(4) 180-183 (Apr 1996), 9A1048
Arbitrary Lagrangian-Eulerian numerical prediction for local scour caused by turbulent flows, J Comput Phys 125(1) 71-82 (Apr 1996), 9A1051
Conservation law with point source and discontinuous flux function modeling continuous sedimentation, SIAM J Appl Math 56(2) 388-419 (Apr 1996), 9A1052
Effects of foundation geometry on bridge pier scour, J Hydraul Eng 122(4) 203-209 (Apr 1996), 9A1053
Numerical simulation of widening and bed deformation of straight sand-bed rivers - I: Model development, J Hydraul Eng 122(4) 184-193 (Apr 1996), 9T1054
Bed-load transport - I: Mechanical characteristics, J Hydraul Eng 122(5) 245-254 (May 1996), 10T1057
Dynamics of turbidity current with reversing buoyancy, J Hydraul Eng 122(5) 230-236 (May 1996), 10A1058
Error estimate in Einstein's suspended sediment load method, J Hydraul Eng 122(5) 282-285 (May 1996), 10A1059
Nearly-pure sorting waves and formation of bedload sheets, J Fluid Mech 312 253-278 (Apr 1996), 10A1060
Sediment transport in the Yellow River, J Hydraul Eng 122(5) 237-244 (May 1996), 10T1061
Study on 3D mathematical model of river bed erosion for water-sediment two-phase flow, Acta Mech Sinica 12(1) 85-91 (1996), 10A1062
Combined refraction and diffraction of short waves using the dual-reciprocity BEM, Appl Ocean Res 17(5) 315-322 (1995), 11A867
Sediment pick-up for evolving scour near circular cylinders, Appl Math Model 20(7) 534-539 (Jul 1996), 11A868
Flushing sediment through reservoirs (French), J Hydraul Res 34(2) 237-255 (1996), 12A1024
Modeling non-cohesive suspended sediment transport in 2D vertical free surface flows, J Hydraul Res 34(2) 219-236 (1996), 12T1025
Sediment suspension in oscillatory flow: Measurements of instantaneous concentration at high shear, Coastal Eng 27(1-2) 67-96 (May 1996), 12A1026
Numerical simulation of aggradation and downstream fining (French), J Hydraul Res 34(2) 185-204 (1996), 12T1027

352N. Waterways

Sand-dune geometry of large rivers during floods, J Hydraul Eng 121(9) 657-663 (Sep 1995), 1T979
Calibration of riverbed roughness, J Hydraul Eng 121(9) 664-671 (Sep 1995), 1T980
Expert system for flow routing in a river network, Adv Eng Software 22(3) 139-146 (1995), 2A863
Simultaneous solution for flood routing in channel networks, J Hydraul Eng 121(10) 744-750 (Oct 1995), 2T864
Longitudinal profile of bed elevation and grain size in alluvial rivers (Japanese), Proc JSCE 521(II-32) 69-78 (Aug 1995), 3A886
Numerical solution of water quality equation for rivers (Japanese), Proc JSCE 521(II-32) 59-68 (Aug 1995), 3A887
Distribution of turbulent velocity fluctuations in a natural river, J Hydraul Res 33(5) 649-661 (1995), 4A926
Longitudinal streaks, J Fluid Mech 304 161-183 (Dec 1995), 6A885
Analysis of bivariate censored low flows, J Hydraul Eng 122(2) 97-103 (Feb 1996), 6T887
Return flow in rivers due to navigation traffic, J Hydraul Eng 121(12) 914-918 (Dec 1995), 6T888
Routing equations for detention reservoirs, J Hydraul Eng 121(12) 885-888 (Dec 1995), 6A889
Stability of river bifurcations in 1D morphodynamic models, J Hydraul Res 33(6) 739-750 (1995), 7T1050
Prediciton of turbulent flows in dredged trenches, J Hydraul Res 33(6) 813-824 (1995), 7T1101
Prediction of bed-load transport by desert flash floods, J Hydraul Eng 122(3) 170-173 (Mar 1996), 8A881
Environmental hydraulics: New research directions for the 21st century, J Hydraul Eng 122(4) 180-183 (Apr 1996), 9A1048
Effects of foundation geometry on bridge pier scour, J Hydraul Eng 122(4) 203-209 (Apr 1996), 9A1053
Stream-aquifer interaction model with diffusive wave routing, J Hydraul Eng 122(4) 210-218 (Apr 1996), 9T1055
Numerical simulation of aggradation and downstream fining (French), J Hydraul Res 34(2) 185-204 (1996), 12T1027
Point bar deposits in narrow sharp bends, J Hydraul Res 34(2) 205-218 (1996), 12T1028

352O. Estuaries

Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995 (Comput Mech, Billerica MA, 1995) 1N27
Drag on a sphere in slow shear flow, J Fluid Mech 296 373-390 (Aug 1995), 1A981

352P. Coasts, beaches, harbors

Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995 (Comput Mech, Billerica MA, 1995) 1N27
Depth integrated modeling of tide induced circulation in a square harbor, J Hydraul Res 33(3) 321-332 (1995), 1A982
Discretization of a model for the formation of longshore sand ridges, J Comput Phys 122(1) 129-142 (Nov 1995), 3T884
Field observation of suspended sand concentration near the breaking point (Japanese), Proc JSCE 521(II-32) 135-144 (Aug 1995), 3A888
Numerical simulation of surface-sheared-sand layer (Japanese), Proc JSCE 521(II-32) 101-112 (Aug 1995), 3A889
Effects of wave chronology on medium and long term coastal morphology, Coastal Eng 26(3-4) 251-270 (Dec 1995), 7T1051
Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, Coastal Eng 26(3-4) 117-134 (Dec 1995), 7A1052
Hydrodynamic model of unsteady tidal flow in coastal waters based on an inverse method, Arch Mech 47(6) 1057-1071 (1995), 9A1056
Nonlinear effects of waves and currents on movable bed roughness and friction, Arch Hydro-Eng Env Mech 52(1-2) 3-27 (1995), 9A1057
Offshore Breakwaters and Shore Evolution Control (Balkema, Rotterdam, Netherlands, 1996) 12N42
Experiment on harbor resonance induced by incident regular waves and irregular short waves, Coastal Eng 27(1-2) 47-66 (May 1996), 12A1029
Melnikov process for stochastically perturbed, slowly varying oscillators: Application to a model of wind-driven coastal currents, J Appl Mech 63(2) 429-435 (Jun 1996), 12A1030

352R. Ice transport

Frazil evolution in channels, J Hydraul Res 33(3) 291-306 (1995), 1A983
Ocean waves and sea ice, Annu Rev Fluid Mech 27 115-168 (1995), 2A177
Numerical modeling of ice jam resistance to main channel flow, Int J Numer Methods Fluids 21(11) 1109-1120 (Dec 1995), 4A928
Numerical model of flow in ice-covered channel, J Hydraul Eng 122(1) 19-26 (Jan 1996), 6A874

Ice streams in Antarctica: Transverse instability of gravity-driven flow, J Non-Newtonian Fluid Mech 62(2-3) 155-174 (Feb 1996), 8A1299

352Y. Computational techniques

Mathematical modeling in measurements of unsteady flows with ultrasonic flowmeters, J Theor Appl Mech 33(3) 591-603 (1995), 1A984
Experimental verification of the MacCormack numerical scheme, Adv Eng Software 23(1) 61-67 (1995), 3A890
Techniques in numerical simulation of coastal aquifiers with salt intrusion (Spanish), Ingenieria Hidraul Mex 10(2) 39-44 (1995), 4T922
Brownian Dynamics simulation of reversible polymeric networks, J Non-Newtonian Fluid Mech 60(2-3) 303-334 (Nov 1995), 4A927
Numerical modeling of ice jam resistance to main channel flow, Int J Numer Methods Fluids 21(11) 1109-1120 (Dec 1995), 4A928
Accuracy and stability of numerical schemes for the shallow water model, Numer Methods PDE 12(1) 85-98 (Jan 1996), 5A208
Hybrid numerical method for the shallow water equations with source term, Numer Methods PDE 12(1) 75-83 (Jan 1996), 5A209
Efficient numerical calculation of wave loads on an array of vertical cylinders, Appl Math Model 20(1) 26-33 (Jan 1996), 5A870
First- and second-order flux difference splitting schemes for dam-break problem, J Hydraul Eng 121(12) 877-884 (Dec 1995), 6A890
Motivation for probalistic balancing rule models used for real-time reservoir operations: Newsboy problem approach, Eng Optim 25(2) 83-97 (Oct 1995), 6A891
Numerical model for sea outfall hydraulics, J Hydraul Eng 122(2) 82-89 (Feb 1996), 6A892
Numerical scheme for steady, supercritical flows with boundary fitted coordinates, Int J Numer Methods Heat & Fluid Flow 5(10) 923-931 (Dec 1995), 6A893
Numerical computation of critical flow over a spillway by means of minimization of violation of negative curvature condition, Int J Numer Methods Fluids 22(3) 151-173 (Feb 1996), 7A1053
Semi-analytic method for hydraulic computation of surge chambers (Chinese), J Dalian Univ Tech 35(4) 532-535 (Aug 1995), 8A203
Permeability of 3D models of fibrous porous media, J Fluid Mech 308 341-361 (Feb 1996), 8A871
Computation of a dam-break flood wave in channel transitions, Adv Water Resources 19(3) 181-187 (Jun 1996), 8A872
Symmetric formulation and SUPG scheme for the shallow-water equations, Adv Water Resources 19(3) 123-131 (Jun 1996), 8T882
Arbitrary Lagrangian-Eulerian numerical prediction for local scour caused by turbulent flows, J Comput Phys 125(1) 71-82 (Apr 1996), 9A1051
Numerical simulation of widening and bed deformation of straight sand-bed rivers - I: Model development, J Hydraul Eng 122(4) 184-193 (Apr 1996), 9T1054
Regular and chaotic flows in paraboloidal basins and eddies, Chaos Solitons Fractals 7(3) 383-408 (Mar 1996), 9A1058
Inverse analysis of a regional groundwater flow model by extended Bayesian method: In case of steady flow data (Japanese), Proc JSCE 535(III-34) 93-102 (Mar 1996), 10T1063
Fast iterative method to compute the flow around a submerged body, Math Comput 65(215) 1067-1083 (Jul 1996), 12A252
SPLASH program for 3D fluid dynamics with free surface boundaries, Comput Mech 18(1) 12-23 (May 1996), 12A253
Modeling non-cohesive suspended sediment transport in 2D vertical free surface flows, J Hydraul Res 34(2) 219-236 (1996), 12T1025
Numerical investigation of landfill hydraulics using variably saturated flow theory, Geotechnique 46(2) 329-341 (Jun 1996), 12A1031

352Z. Experimental techniques

Unsteady surface-velocity field measurement using particle tracking velocimetry, J Hydraul Res 33(4) 519-534 (1995), 2A1064
Preliminary investigation of the use of air injection to mitigate cavitation erosion, J Fluids Eng 117(3) 498-504 (Sep 1995), 5A873
Uncertainty of hydraulic parameters, J Hydraul Eng 122(2) 112-114 (Feb 1996), 6T894
Influence of temperature on the performance of variable declining rate filters for drinking water, Arch Hydro-Eng Env Mech 51(3-4) 37-51 (1994), 9T1059
Error estimate in Einstein's suspended sediment load method, J Hydraul Eng 122(5) 282-285 (May 1996), 10A1059

354. INCOMPRESSIBLE FLOW

Measuring unsteady velocity profiles and integral parameters using digital image processing of hydrogen bubble timelines, J Fluids Eng 117(3) 331-340 (Sep 1995), 5A876

354A. General theory

Computational Modelling of Free and Moving Boundary Problems III (Comput Mech, Billerica MA, 1995) 1N28
Asymptotic structure of plane steady flow of a viscous fluid in exterior domains, Arch Rational Mech Anal 131(2) 101-119 (1995), 1T985
Piecewise linear approach to the Stokes equations in 3D, Appl Math Comput 72(1) 61-75 (Sep 1995), 1A986
Instructional Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N42
Developments of actuator disc theory for compressible flow through turbo-machines, Int J Mech Sci 37(10) 1051-1066 (Oct 1995), 2A865
Vorticity-velocity formulation for the stationary Navier-Stokes equations: The 3D case, Appl Math letters 8(4) 63-66 (Jul 1995), 2A866
Navier-Stokes Equations and Nonlinear Functional Analysis, Second Edition (SIAM, 1995) 3R27
Uniqueness in linearized 2D water-wave problems for two surface-piercing bodies, Quart J Mech Appl Math 48(4) 507-515 (Nov 1995), 3A891
Navier-Stokes Equations in Irregular Domains - Mathematics and Its Applications Series, Vol 326 (Kluwer, Netherlands, 1995) 4R26
Convergence to global solutions for multidimensional flows of compressible, viscous fluids with polytropic equations of state and discontinuous initial data, Arch Rational Mech Anal 132(1) 1-14 (1995), 4A929
Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with nonhomogeneous boundary conditions, Int J Non-Linear Mech 30(5) 701-709 (Sep 1995), 5A874
Steady-state quantum hydrodynamic model for semiconductors, Nonlinear Anal 26(4) 845-856 (Feb 1996), 5T875
Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, J Fluid Mech 305 77-91 (Dec 1995), 6A897
Modelisation asymptotique en mecanique des fluides newtoniens (Asymptotic Modelization in the Mechanics of Newtonian Fluids) - Mathematiques and Applications Series, Vol 15 (French) (Springer-Verlag, New York, 1994) 7R20
Hydrodynamics and Nonlinear Instabilities - Collection Alea-Saclay: Monographs and Texts in Statistical Physics 3 (Cambridge UP, New York, 1996) 7N23
Boundary conditions for the vorticity-velocity formulation of Navier-Stokes equations, AIAA J 34(2) 416-418 (Feb 1996), 7T1054
Impulse-based approximation of fluid motion due to boundary forces, J Comput Phys 123(2) 341-353 (Feb 1996), 7A1055
Incompressible Flow, Second Edition (Wiley, New York, 1996) 8R24
Large deviation for Navier-Stokes equations with small stochastic perturbation, Appl Math Comput 76(1) 65-93 (Apr 1996), 8A914
Mixed-Flow Hydrodynamics - Advances in Engineering Fluid Mechanics Series (Gulf Publ, Houston, 1996) 9N18
Operator approach to three problems of fluid mechanics, Arch Mech 47(6) 1043-1056 (1995), 9A1060
Foias statistical solution for stochastic Navier-Stokes equation, Nonlinear Anal 27(1) 97-114 (Jul 1996), 10T59
Voyage around the Navier-Stokes equations, Physica D 92(3-4) 133-139 (May 1996), 10A1064
Orthogonal vector transformations and fundamental properties of the Navier-Stokes and Euler equations for incompressible vortex fluid flows, TsAGI 1(2) 3-22 (1994), 10T1067
Thermofluids (Chapman and Hall, New York, 1996) 11R41
Advances in Fluid Mechanics - Proc of 1st Int Conf, New Orleans, June 1996. Advances in Fluid Mechanics series, Vol 9 (Comput Mech, Billerica MA, 1996) 11N42
Group interpretation of 2D potential flows of incompressible liquid, Russian Aeronaut 38(3) 19-23 (1995), 11A869
Optimality conditions for control problems in heat conducting Navier-Stokes fluid, Mec Appl 40(2-3) 189-199 (Jun 1995), 11A870
Tables for the Calculation of Resistance in Internal Flows (Telford, London, 1995) 12N44
Solution of a partial differential equation arising in fluid flow theory, Appl Math Comput 77(2-3) 295-300 (Jul 1996), 12A1032
High-Reynolds-number weakly stratified flow past an obstacle, J Fluid Mech 317 155-178 (Jun 1996), 12A1047

354B. Irrotational flow

Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N30
Dynamic equations of motion for a rigid or deformable body in an arbitrary non-uniform potential flow field, J Fluid Mech 295 91-120 (Jul 1995), 1A1000
Convergence of vortex methods for weak solutions to the 2D Euler equations with vortex sheet data, Commun Pure Appl Math 48(6) 611-628 (Jun 1995), 2A892
Uniqueness in linearized 2D water-wave problems for two surface-piercing bodies, Quart J Mech Appl Math 48(4) 507-515 (Nov 1995), 3A891
Multipole methods for boundary-value problems involving a sphere in a tube, IMA J Appl Math 55(2) 187-204 (1995), 3A896
Maximum drag of a curved plate in flow with a wake, European J Appl Math 6(5) 517-527 (Oct 1995), 4A930
Nonsteady stability of the flow around the circle in the Foppl model, Quart Appl Math 53(4) 683-694 (Dec 1995), 4A931
Measuring unsteady velocity profiles and integral parameters using digital image processing of hydrogen bubble timelines, J Fluids Eng 117(3) 331-340 (Sep 1995), 5A876
Impulse-based approximation of fluid motion due to boundary forces, J Comput Phys 123(2) 341-353 (Feb 1996), 7A1055
Superposition technique for 2D potential flow around multi-element aerofoils, Mech Res Commun 23(1) 103-110 (Feb 1996), 7T1056
Green's function approach to wave propagation and potential flow around obstacles in infinite cylindrical channels, Math Methods Appl Sci 19(8) 607-638 (May 1996), 10A378
Plane potential flow through the inhomogeneous porous line, Z Angew Math Mech 76(4) 231-240 (1996), 10A1065
Forces and moments in incompressible quasi-potential flows, J Fluids Struct 10(3) 281-303 (Apr 1996), 11T871
Upward and downward annular liquid jets: Conservation properties, singularities, and numerical errors, Appl Math Model 20(6) 440-458 (Jun 1996), 11A872

354C. Rotational (nonviscous) flow, vortices

Vortex Flow in Nature and Technology (Krieger, Melbourne FL, 1995) 1R25
Global vortex rings and asymptotic behavior, Nonlinear Anal 25(5) 531-546 (Sep 1995), 1T987
Head-on collision of two coaxial vortex rings: Experiment and computation, J Fluid Mech 296 39-71 (Aug 1995), 1A988
Dynamics and stability of a vortex ring impacting a solid boundary, J Fluid Mech 297 1-28 (Aug 1995), 2A867
New mechanism of small-scale transition in a plane mixing layer: Core dynamics of spanwise vortices, J Fluid Mech 298 23-80 (Sep 1995), 2A868
Steady columnar vortices under local compression, J Fluid Mech 299 367-388 (Sep 1995), 2A869
Symmetries and conservation laws of 2D hydrodynamics, Physica D 86(4) 621-636 (Oct 1995), 2A870
Temporal evolution of a pair of streamwise vortices, Exp Fluids 19(4) 241-249 (Aug 1995), 2A871
Theoretical and experimental studies of slender vortex filaments, Appl Math letters 8(2) 45-50 (Mar 1995), 2A872
Vortex intensification and collapse of the Lissajous-elliptic ring: Single- and multi-filament Biot-Savart simulations and visiometrics, J Fluid Mech 299 289-331 (Sep 1995), 2A873
Coaxial interactions of two vortex rings or of a ring with a body, Acta Mech Sinica 11(3) 219-228 (1995), 3A892
Finite time singularities in ideal fluids with swirl, Physica D 88(2) 116-132 (Nov 1995), 4A932
Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures, J Comput Appl Math 62(1) 1-25 (Aug 1995), 4A933
PDF description of turbulent plane Couette flow, Int J Numer Methods Heat & Fluid Flow 5(9) 757-779 (Nov 1995), 4A934
Buffeting of fin: Distortion of incident vortex, AIAA J 33(11) 2144-2150 (Nov 1995), 4A942
Buffeting of fins: An assessment of surface pressure loading, AIAA J 33(11) 2232-2234 (Nov 1995), 4T943
Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, Comput Fluids 24(8) 883-895 (Nov 1995), 4A950
Dynamics of experimentally simulated microbursts, AIAA J 33(11) 2128-2136 (Nov 1995), 4A985
Singularity formation in 3D motion of a vortex sheet, J Fluid Mech 300 339-366 (Oct 1995), 4T1064
Experimental thermal and fluid science, Exp Thermal Fluid Sci 11(3) 226-309 (Oct 1995), 4A1240
Non-reflecting boundary conditions for the steady Euler equations, J Comput Phys 122(2) 307-316 (Dec 1995), 5T877
Stuart vortices on a beta-plane, Dyn Atmos Oceans 22(4) 213-238 (Dec 1995), 5T878
Turbulent vortex ring-free surface interaction, J Fluids Eng 117(3) 374-381 (Sep 1995), 5A879
Critical analysis of multi-dimensional upwinding for the Euler equations, Comput Fluids 25(1) 29-38 (Jan 1996), 6A895
Growth of the velocity support for an incompressible nonviscous fluid in a 2D exterior domain, Math Methods Appl Sci 19(1) 53-62 (Jan 1996), 6A896
Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, J Fluid Mech 305 77-91 (Dec 1995), 6A897
Two-dimensional vortex motion in the cross-flow of a wing-body configuration, J Fluid Mech 305 93-109 (Dec 1995), 6A898
Vorticity, free surface, and surfactants, Annu Rev Fluid Mech 28 83-128 (1996), 6A905
Design considerations for numerical filters used in vortex-in-cell algorithms, Comput Fluids 25(1) 61-75 (Jan 1996), 6A910
Vortex dynamics in the cylinder wake, Annu Rev Fluid Mech 28 477-539 (1996), 6A974
Static properties and motion of vortices in charged fluids, Physica D 89(1-2) 136-150 (Dec 1995), 6A1007
Investigation of high-order upwinded differencing for vortex convection, AIAA J 34(2) 332-337 (Feb 1996), 7A48
Energy conservation and the damping of flexural waves by vorticity production, J Sound Vib 190(1) 1-19 (Feb 1996), 7A287
Penetration of a blade into a vortex core: Vorticity response and unsteady blade forces, J Fluid Mech 306 83-109 (Jan 1996), 7A1057
Unsteady behavior of a topography-modulated tripole, J Fluid Mech 307 11-41 (Jan 1996), 7A1058
Finite-difference scheme for 3D incompressible flows in cylindrical coordinates, J Comput Phys 123(2) 402-414 (Feb 1996), 7A1069
Local stability of 2D steady irrotational solenoidal flows with closed streamlines, J Phys Soc Japan 65(1) 107-113 (Jan 1996), 7A1122
Mechanism of closed vortex formation in shear flow, J Phys Soc Japan 65(2) 439-449 (Feb 1996), 8A883
Numerical computation of vortex sheet roll-up in the background shear flow, Fluid Dyn Res 17(4) 195-212 (Mar 1996), 8A884
Parallel block adaptive multigrid method for the implicit solution of the Euler equations, Int J Numer Methods Fluids 22(5) 411-428 (Mar 1996), 8A885
Stationary corner vortex configurations, Z Angew Math Phys 47(1) 39-56 (Jan 1996), 8A886
Two-dimensional vortex methods and singular quadrature rules, J Comput Phys 124(1) 131-145 (Mar 1996), 8A887
Study of aircraft wake vortex behavior near the ground, AIAA J 34(3) 580-589 (Mar 1996), 8A890
Formation process of a vortex ring by an exploding wire in water, J Phys Soc Japan 65(2) 462-467 (Feb 1996), 8A913
Hysteresis in swirling jets, J Fluid Mech 309 1-44 (Feb 1996), 8A962
Convergence of velicity blobs method for the Euler equation, Math Methods Appl Sci 19(6) 463-479 (Apr 1996), 9A1061
Numerical issues affecting vortex asymmetries computed with the conical Navier-Stokes equations, Comput Fluids 25(3) 319-334 (Mar 1996), 9A1062
Stable and unstable monopolar vortices in a stratified fluid, J Fluid Mech 311 257-287 (Mar 1996), 9A1063
Vorticity distributions for thick and thin viscous vortex pairs and rings, Arch Mech 47(6) 1015-1026 (1995), 9A1064
Impact of a vortex ring on a wall in high Reynolds number region, J Phys Soc Japan 65(4) 955-959 (Apr 1996), 10A1066
Orthogonal vector transformations and fundamental properties of the Navier-Stokes and Euler equations for incompressible vortex fluid flows, TsAGI 1(2) 3-22 (1994), 10T1067
Interaction of missile nose-tip vortices with a control surface, AIAA J 34(5) 999-1006 (May 1996), 10A1202
Weakly nonlinear analysis on identification of vortex, sound, and heat, and their interactions in shear flow, Appl Math Mech 17(3) 213-220 (Mar 1996), 11A247
Effects of implicit preconditioners on solution acceleration schemes in CFD, Int J Numer Methods Fluids 22(10) 1023-1035 (May 1996), 11A873
Motion of three-point vortices in a periodic strip, J Fluid Mech 314 1-25 (May 1996), 11A874
Unsteady asymptotic solutions of the 2D Euler equations, Quart Appl Math 54(2) 211-223 (Jun 1996), 11A875
Vortex ring interactions - II: Inviscid models, Quart J Mech Appl Math 49(2) 287-309 (May 1996), 11A876

Stability of leading-edge vortex pair on a slender delta wing, AIAA J 34(6) 1182-1187 (Jun 1996), 11A986
Classification of self-organized vortices in 2D turbulence: The case of a bounded domain, J Fluid Mech 314 267-297 (May 1996), 11A999
Superposition technique for potential flow around an aerofoil and control of the circulation, Int J Numer Methods Fluids 22(10) 1013-1022 (May 1996), 11A1013
Two-dimensional vortex dynamics in a stratified barotropic fluid, J Fluid Mech 314 139-161 (May 1996), 11A1416
Flow past a flat plate with a vortex-sink combination, J Appl Mech 63(2) 543-550 (Jun 1996), 12A257
Dynamics of a vortex ring in a rotating fluid, J Fluid Mech 317 215-239 (Jun 1996), 12A1033
Effects due to initial perturbations on the modeling of vortex shedding from a bluff body in a laminar flow, Int J Comput Fluid Dyn 6(4) 337-344 (1996), 12A1034
Flow near a rotating disk: An approximate solution, J Appl Mech 63(2) 436-438 (Jun 1996), 12A1035
Initial and initial-boundary value problems for a vortex filament with or without axial flow, SIAM J Math Anal 27(4) 1015-1023 (Jul 1996), 12A1036
Investigation on the properties and structures of starting vortex flow past a backward-facing step by WBIV technique, Exp Fluids 21(1) 57-65 (May 1996), 12A1109

354D. Viscous flow

Axisymmetric stagnation flow converging obliquely on a cylinder, J Phys Soc Japan 64(8) 2714-2717 (Aug 1995), 1A989
Force and moment on a body in an incompressible fluid, with application to rigid bodies and bubbles at high and low Reynolds numbers, Quart J Mech Appl Math 48(3) 401-426 (Aug 1995), 1A990
Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, J Fluids Struct 9(6) 671-695 (Aug 1995), 1T991
Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids, Appl Mech Rev 48(11) 763-776 (Nov 1995), 1A996
Three-dimensional oscillatory flow through a porous medium with periodic permeability, Z Angew Math Mech 75(8) 599-604 (1995), 1A1361
Stokes flow past two circular cylinders using a BEM, Comput Fluids 24(7) 787-798 (Sep 1995), 2A50
Spectral BE approach to 3D Stokes flow, J Fluid Mech 298 167-192 (Sep 1995), 2A874
Oseen drag at infinite Reynolds number, SIAM J Appl Math 55(5) 1227-1232 (Oct 1995), 2A886
Solitary waves on 2D slab conduits of buoyant fluid in a more viscous fluid, Geophys Astrophys Fluid Dyn 79(1-4) 223-238 (Aug 1995), 3A201
Interactions of 3D viscous axisymmetric vortex rings with a free surface, Acta Mech Sinica 11(3) 229-238 (1995), 3A893
Navier-Stokes analysis of a circulation control airfoil, Acta Mech Sinica 11(2) 137-143 (1995), 3A894
Numerical study of vortex reconnection for two anti-parallel vortex tubes, Acta Mech Sinica 11(3) 209-218 (1995), 3A895
Multigrid calculation of steady, viscous flow in a triangular cavity, J Comput Phys 122(1) 107-117 (Nov 1995), 3A956
Bounds on solution of one-phase Stefan problems, European J Appl Math 6(5) 509-516 (Oct 1995), 4A935
Classical solvability for the Hele-Shaw moving boundary problems with kinetic undercooling regularization, European J Appl Math 6(5) 421-439 (Oct 1995), 4A936
Crystalline Saffman-Taylor fingers, SIAM J Appl Math 55(6) 1511-1535 (Dec 1995), 4A937
Development of singularities in some moving boundary problems, European J Appl Math 6(5) 491-507 (Oct 1995), 4A938
Laminar roughness boundary condition, J Fluid Mech 300 59-70 (Oct 1995), 4A939
Nonlinear interface dynamics in Hele-Shaw flows, European J Appl Math 6(5) 399-420 (Oct 1995), 4A940
Persistence of corners in free boundaries in Hele-Shaw flow, European J Appl Math 6(5) 455-490 (Oct 1995), 4A941
Transverse motion of a disk through a rotating viscous fluid, J Fluid Mech 301 295-324 (Oct 1995), 4A959
Segregated implicit solution algorithm for 2D and 3D laminar incompressible flows, Int J Numer Methods Fluids 21(11) 1067-1086 (Dec 1995), 4A981
Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, J Non-Newtonian Fluid Mech 60(2-3) 129-154 (Nov 1995), 4A1006
Time-evolving bubbles in 2D Stokes flow, J Fluid Mech 301 325-344 (Oct 1995), 4A1014
Viscous oscillatory flow about a circular cylinder at small to moderate Stroubal number, J Fluid Mech 303 215-232 (Nov 1995), 4A1047
Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, J Fluid Mech 301 65-77 (Oct 1995), 4A1323
Radial inflow between two flat disks, Acta Mech 113(1-4) 109-118 (1995), 5A880
Stretching a surface in a rotating power-law fluid, Z Angew Math Mech 75(11) 876-878 (1995), 5T881
Flow induced by an asymmetrically placed disk rotating coaxially inside a cylindrical casing, Acta Mech 113(1-4) 9-19 (1995), 5A883
Motion of a circular cylinder in a viscous liquid between parallel plates, Theor Comput Fluid Dyn 7(6) 441-455 (1995), 5A886
Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, European J Appl Math 6(6) 559-571 (Dec 1995), 5A887
Steady and transient coupled analysis of 3D viscous flow and magnetic field by BEM, Boundary Elements Comm 6(6) 252-258 (31v 1995), 6A42
Adaptive solutions for unsteady laminar flows on unstructured grids, Int J Numer Methods Fluids 22(2) 85-101 (Jan 1996), 6A899
Implicit multigrid algorithm for computing hypersonic, chemically reacting viscous flows, J Comput Phys 123(1) 84-95 (Jan 1996), 6T911
Short note on the high-order stream/function-vorticity formulations of 2D steady state Navier-Stokes equations, Int J Numer Methods Fluids 22(1) 1-9 (Jan 1996), 6A914
Problem on movement of nonlinear viscous medium in axisymmetrical canals, Prikl Mekh (Appl Mech) 30(11) 85-90 (1994), 7A1059
Collocated diffuse approximation method for 2D incompressible channel flows, Mech Res Commun 23(1) 61-66 (Feb 1996), 7T1067
Laminar Viscous Flow - Mechanical Engineering Series (Springer-Verlag, New York, 1995) 8R25
Finite element simulation of 2D-square cavity flow (Chinese), J Dalian Univ Tech 35(2) 198-202 (Apr 1995), 8A27
Analysis of 2D and 3D unsteady annular flows with oscillating boundaries, based on a time-dependent coordinate transformation, J Fluids Struct 10(1) 57-77 (Jan 1996), 8T889
Huygens principle for flow around an arbitrary body in a viscous incompressible fluid, Fluid Dyn Res 17(4) 213-223 (Mar 1996), 8A898
Comparison of pressure-based and artificial compressibility methods for solving 3D steady incompressible viscous flows, J Comput Phys 124(1) 1-13 (Mar 1996), 8A907
Oscillations of liquid drops: Results from USML-1 experiments in Space, J Fluid Mech 308 1-14 (Feb 1996), 8A932
Symmetrical flow past an accelerated circular cylinder, J Fluid Mech 308 97-110 (Feb 1996), 8A963
Stability of thermoviscous Hele-Shaw flow, J Fluid Mech 308 111-128 (Feb 1996), 8A974
Stability of cylindrical shells conveying viscous flow, J Fluids Struct 10(2) 173-196 (Feb 1996), 9A320
Artificial boundary condition for 2D incompressible viscous flows using the method of lines, Int J Numer Methods Fluids 22(6) 483-493 (Mar 1996), 9A1065
Exponential-Lagrangian tracking schemes applied to Stokes Law, J Fluids Eng 118(1) 85-89 (Mar 1996), 9A1066
Hybrid spectral-finite volume method for viscous flows, Int J Comput Fluid Dyn 5(1-2) 119-136 (1995), 9A1067
Inertial coating of a fiber, J Fluid Mech 311 219-237 (Mar 1996), 9A1068
Large-time behavior in incompressible Navier-Stokes equations, SIAM J Math Anal 27(2) 449-475 (Mar 1996), 9A1069
Oblique flow impinging on a wall with suction or blowing, Acta Mech 115(1-4) 15-25 (1996), 9A1070
Pressure-correction method for the solution of incompressible viscous flows on unstructured grids, Int J Numer Methods Fluids 22(7) 581-601 (Apr 1996), 9A1071
Adaptive prismatic-tetrahedral grid refinement and redistribution for viscous flows, AIAA J 34(4) 707-716 (Apr 1996), 9A1085
Multigrid and Krylov subspace methods for the discrete Stokes equations, Int J Numer Methods Fluids 22(8) 755-770 (Apr 1996), 10A1068
Instabilities of the upstream meniscus in directional viscous fingering, J Fluid Mech 312 125-148 (Apr 1996), 10A1170
Arbitrary squeezing of a viscous fluid between elliptic plates, Fluid Dyn Res 18(1) 35-51 (Jun 1996), 11A877
Centenary of a paper on slow viscous flow by the physicist HA Lorentz, J Eng Math 30(1-2) 1-305 (Mar 1996), 11A878
Method of assessing the effects of artificial dissipation in Navier-Stokes codes, Int J Numer Methods Fluids 22(10) 979-985 (May 1996), 11A879
Nonlocal artificial boundary conditions for the incompressible viscous flow in a channel using spectral techniques, J Comput Phys 126(1) 52-63 (Jun 1996), 11T880
Numerical study of the blockage effects on viscous flow past a circular cylinder, Int J Numer Methods Fluids 22(11) 1061-1074 (Jun 1996), 11A881
Scalability and performance of data-parallel pressure-based multigrid methods for viscous flows, J Comput Phys 125(2) 338-353 (May 1996), 11T882
Similarity solutions for the squeezed film flow between two rotating naturally permeable discs, Z Angew Math Mech 76(5) 291-299 (1996), 11A883
Unsteady 3D flow due to a stretching flat surface, Mech Res Commun 23(3) 325-333 (Jun 1996), 11T884
Essentially compact schemes for unsteady viscous incompressible flows, J Comput Phys 126(1) 122-138 (Jun 1996), 11A890
Planar liquid sheets at low Reynolds numbers, Int J Numer Methods Fluids 22(10) 961-978 (May 1996), 11A893
Dynamic simulation of hydrodynamically interacting spheres in a quiescent second-order fluid, J Fluid Mech 315 345-365 (May 1996), 11A932
Numerical simulation of oil-droplet cleavage by surfactant, J Biomech Eng 118(2) 201-209 (May 1996), 11A1469
Coupling mesh and flow in viscous fluid calculations on unstructured triangular FEs, Int J Comput Fluid Dyn 6(4) 275-290 (1996), 12A13
Chaotic advection in 3D unsteady incompressible laminar flow, J Fluid Mech 316 259-284 (Jun 1996), 12A110
Computational approach to controllability issues for flow-related models - II: Control of 2D, linear advection-diffusion and Stokes models, Int J Comput Fluid Dyn 6(4) 253-274 (1996), 12T372
Use of interferometry of measure flow characteristics of an oscillating draining film, J Non-Newtonian Fluid Mech 64(1) 1-17 (May 1996), 12A1037
Effective boundary conditions for Stokes flow over a rough surface, J Fluid Mech 316 223-240 (Jun 1996), 12A1039
Numerical study of viscous flows inside partially filled spinning and coning cylinders, J Fluids Eng 118(2) 335-340 (Jun 1996), 12A1044

354E. Three-dimensional flow

Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N30
Three-dimensional analysis of the flow in the cyclones, Appl Math Mech 16(6) 557-564 (Jun 1995), 1A992
Vorticity-velocity formulation for the stationary Navier-Stokes equations: The 3D case, Appl Math letters 8(4) 63-66 (Jul 1995), 2A866
Numerical study of vortex reconnection for two anti-parallel vortex tubes, Acta Mech Sinica 11(3) 209-218 (1995), 3A895
Finite time singularities in ideal fluids with swirl, Physica D 88(2) 116-132 (Nov 1995), 4A932
Buffeting of fin: Distortion of incident vortex, AIAA J 33(11) 2144-2150 (Nov 1995), 4A942
Buffeting of fins: An assessment of surface pressure loading, AIAA J 33(11) 2232-2234 (Nov 1995), 4T943
Experimental study of 3D separation on a large-scale model, AIAA J 33(11) 2107-2113 (Nov 1995), 4A944
Experimental study of saddle point of attachment in laminar juncture flow, AIAA J 33(12) 2288-2292 (Dec 1995), 4A961
Three-dimensional flow simulation on high-performance computers, Z Angew Math Mech 75(10) 731-739 (1995), 4A984
Impact of a vortex ring on a wall in high Reynolds number region, J Phys Soc Japan 65(4) 955-959 (Apr 1996), 10A1066
Vortex ring interactions - II: Inviscid models, Quart J Mech Appl Math 49(2) 287-309 (May 1996), 11A876

354F. Low Reynolds number (incl creeping flow)

Accurate solutions for steady plane flow in the driven cavity - I: Stokes flow, Z Angew Math Phys 46(4) 524-545 (Jul 1995), 1A993
Creep flow with concentric permeable spheres in relative motion, Z Angew Math Mech 75(8) 644-646 (1995), 1T994
Addendum to sphere theorem on the Stokes equation for 3D viscous flow, J Phys Soc Japan 64(9) 3581-3582 (Sep 1995), 2T875
A posteriori error estimators for the Stokes problem, Appl Math letters 8(2) 1-4 (Mar 1995), 2A876
Two dimensional Stokes flows with slip-stick boundary conditions, Mech Res Commun 22(5) 491-501 (Oct 1995), 2T877
Velocity-vorticity formulation of the Stokes system in 2D and 3D spaces, Mech Res Commun 22(5) 511-517 (Oct 1995), 2T878
Multipole methods for boundary-value problems involving a sphere in a tube, IMA J Appl Math 55(2) 187-204 (1995), 3A896
Cusp development in free boundaries, and 2D slow viscous flows, European J Appl Math 6(5) 441-454 (Oct 1995), 4A945
Existence of solutions in plane quasistationary Stokes flow driven by surface tension, European J Appl Math 6(5) 539-558 (Oct 1995), 4A946
Least-squares methods for the velocity-pressure-stress formulation of the Stokes equations, Comput Methods Appl Mech Eng 126(3-4) 267-287 (Oct 1995), 4A947
Manufacture of polyphenylene sulfide matrix composites via the powder impregnation route, Composites Part A Appl Sci and Manuf 27A(1) 49-56 (1996), 4A948
Unsteady motion of solid bodies in creeping flows, J Fluid Mech 303 83-102 (Nov 1995), 4A949
Hybrid asymptotic-numerical method for low Reynolds number flows past a cylindrical body, SIAM J Appl Math 55(6) 1484-1510 (Dec 1995), 4A978
Multigrid algorithm for Stokes problem, J Comput Math 13(4) 291-305 (Oct 1995), 6A900
Biorthogonal series solution of Stokes flow problems in sectorial regions, SIAM J Appl Math 56(1) 19-39 (Feb 1996), 7A1060
Asymptotic analysis of Oseen equations for small viscosity, Appl Math letters 9(2) 1-4 (Mar 1996), 8A888
Mechanism for slip between a liquid and a random surface with trapped gas due to a temperature gradient, IMA J Appl Math 56(1) 103-108 (1996), 10A1069
Stokes flow of a rotating sphere around the axis of a circular orifice or a circular disk, Acta Mech Sinica 11(4) 307-317 (1995), 10A1070
Two-dimensional exterior stokes problem, existence, regularity and decay properties, Math Methods Appl Sci 19(7) (May 1996), 10A1071
Integral equation methods for Stokes flow and isotropic elasticity in the plane, J Comput Phys 125(2) 403-414 (May 1996), 11A885
Interfacial wave theory for oscillatory finger formation in a Hele-Shaw cell: A comparison with experiments, European J Appl Math 7(2) 169-199 (Apr 1996), 11A886
Rotation of a slotted cylinder in a fluid at low Reynolds number: Implication on the no-slip condition for grates, Mech Res Commun 23(3) 305-312 (Jun 1996), 11T887
Slow viscous flow past two rotating cylinders, Quart J Mech Appl Math 49(2) 195-216 (May 1996), 11A888
Stokes flow impinging on a spherical cap on a plane wall, Quart J Mech Appl Math 49(2) 179-193 (May 1996), 11A889
Inverse energy cascade in 2D low Reynolds number bubbly flows, J Fluid Mech 314 315-330 (May 1996), 11A1047
Bearing capacity of floating ice covers subjected to static and oscillatory loads, Appl Mech Rev 49(11) 463-475 (Nov 1996), 12A1038
Effective boundary conditions for Stokes flow over a rough surface, J Fluid Mech 316 223-240 (Jun 1996), 12A1039
Finite element methods for nonlinearly viscous fluids, Z Angew Math Mech 76(6) 307-320 (1996), 12A1040

354G. Unsteady flow

Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, J Fluids Struct 9(6) 671-695 (Aug 1995), 1T991
Boundary conditions in the vicinity of the contact line at a vertically oscillating upright plate: An experimental investigation, J Fluid Mech 295 263-300 (Jul 1995), 1A995
Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N48
Comparison study on multivariant and univariant FEs for 3D incompressible viscous flows, Int J Numer Methods Fluids 21(8) 683-696 (Oct 1995), 2A11
Temporal evolution of a pair of streamwise vortices, Exp Fluids 19(4) 241-249 (Aug 1995), 2A871
Numerical simulation of the axisymmetric unsteady incompressible flow by a vorticity-velocity method, Int J Numer Methods Fluids 21(5) 401-411 (Sep 1995), 2A879
Experimental investigations of free vibrations of cylinder in water near a plane bottom, J Fluids Struct 9(7) 715-727 (Oct 1995), 3T901
Mathematical study of the small oscillations of a liquid column in a symmetrical cylindrical container under zero gravity, J Fluids Struct 9(7) 773-786 (Oct 1995), 3T904
Unsteady motion of solid bodies in creeping flows, J Fluid Mech 303 83-102 (Nov 1995), 4A949
Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, Comput Fluids 24(8) 883-895 (Nov 1995), 4A950
Practical and fundamental developments in the computational modeling of fluid flows, Proc Inst Mech Eng C 209(C5) 297-314 (1995), 4A951
Experimental investigation on the effect of vibration on flow of liquid film in a horizontal duct, Exp Fluids 19(6) 383-387 (Oct 1995), 4A952

Unsteady flow about a sphere at low to moderate Reynolds number - Part 2: Accelerated motion, J Fluid Mech 303 133-153 (Nov 1995), 4A963
Dynamics of experimentally simulated microbursts, AIAA J 33(11) 2128-2136 (Nov 1995), 4A985
Start-up flows of second grade fluids in domains with one finite dimension, Int J Non-Linear Mech 30(6) 817-839 (Nov 1995), 5A882
Calculation of streaklines for time periodic flows, AIAA J 34(1) 79-82 (Jan 1996), 6A909
Second order defect correction scheme for unsteady problems, Comput Fluids 25(1) 9-27 (Jan 1996), 6A913
Analysis of 2D and 3D unsteady annular flows with oscillating boundaries, based on a time-dependent coordinate transformation, J Fluids Struct 10(1) 57-77 (Jan 1996), 8T889
Study of aircraft wake vortex behavior near the ground, AIAA J 34(3) 580-589 (Mar 1996), 8A890
Numerical technique for solving unsteady non-Newtonian free surface flows, J Non-Newtonian Fluid Mech 62(1) 9-34 (Jan 1996), 8A902
Impact of a vortex ring on a wall in high Reynolds number region, J Phys Soc Japan 65(4) 955-959 (Apr 1996), 10A1066
Accelerated flow around a sphere, Appl Math letters 9(3) 41-46 (May 1996), 10A1072
Unsteady asymptotic solutions of the 2D Euler equations, Quart Appl Math 54(2) 211-223 (Jun 1996), 11A875
Similarity solutions for the squeezed film flow between two rotating naturally permeable discs, Z Angew Math Mech 76(5) 291-299 (1996), 11A883
Unsteady 3D flow due to a stretching flat surface, Mech Res Commun 23(3) 325-333 (Jun 1996), 11T884
Essentially compact schemes for unsteady viscous incompressible flows, J Comput Phys 126(1) 122-138 (Jun 1996), 11A890
Solution for spin-up from rest of liquid with a free surface, AIAA J 34(7) 1441-1446 (Jul 1996), 12A1045

354H. Secondary flow

Secondary flows and particle centrifugation in slightly tilted rotating pipes, Appl Sci Res 55(2) 95-105 (Sep 1995), 8A928
Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, AIAA J 34(3) 449-454 (Mar 1996), 8A1042
Modeling of jet-generated recirculating flows in a miniature combustor, Numer Heat Transfer A 29(7) 741-755 (May 1996), 12A1312

354I. Thermal convection flow

Effect of eccentricity and thermal boundary conditions on laminar fully developed flow in annular ducts, Int J Heat Fluid Flow 16(4) 298-306 (Aug 1995), 1A1175
Effects of streamwise convergence in radius on the laminar forced convection in axisymmetric ducts, Numer Heat Transfer A 28(1) 19-38 (Jul 1995), 1A1176
Friction factor and Nusselt number in flat tubes with rounded edges, Int J Heat Fluid Flow 16(4) 307-310 (Aug 1995), 1A1177
Heat transfer and fluid flow characteristics of plate-array aligned at angles to the flow direction, Int J Heat Mass Transfer 38(16) 3053-3063 (Nov 1995), 1A1178
Comparison exercise for computations of turbulent natural convection in enclosures, Numer Heat Transfer B 28(1) 59-78 (Aug 1995), 1A1186
Free convection heat transfer in multiple vertical channels, Int J Heat Fluid Flow 16(4) 244-253 (Aug 1995), 1A1187
Laminar natural convection flow in trapezoidal enclosures, Numer Heat Transfer A 28(1) 55-67 (Jul 1995), 1A1188
Natural convection of micropolar fluids in a 2D enclosure with a conductive partition, Numer Heat Transfer A 28(1) 69-83 (Jul 1995), 1A1190
Transient behavior of a $NaNO_3$ float zone operating at high Marangoni number under μ-g conditions, Numer Heat Transfer A 28(3) 299-320 (Sep 1995), 1A1194
Numerical simulation of supercritical Hadley circulation, within a porous layer, induced by inclined temperature gradients, Int J Heat Mass Transfer 38(14) 2583-2593 (Sep 1995), 1A1198
Mixed convection in an inclined channel with localized heat sources, Numer Heat Transfer A 28(3) 355-373 (Sep 1995), 1A1204
Convective heat transfer in an annular fluid layer with centrifugal force field, Int J Numer Methods Heat & Fluid Flow 5(7) 601-614 (Sep 1995), 1A1207
Mixed convection around a heated rotating horizontal square cylinder in a circular enclosure, Numer Heat Transfer A 28(1) 1-18 (Jul 1995), 1A1208
Standing and traveling oscillatory blob convection, J Fluid Mech 297 255-273 (Aug 1995), 2A880
Computational analysis of convection heat transfer to non-spherical particles, Int J Heat Mass Transfer 38(17) 3171-3180 (Nov 1995), 2A1081
Convective heat transfer in periodic wavy passages, Int J Heat Mass Transfer 38(17) 3219-3230 (Nov 1995), 2A1084
Heat transfer in a rectangular channel with perforated turbulence promoters using holographic interferometry measurement, Int J Heat Mass Transfer 38(17) 3197-3207 (Nov 1995), 2A1089
Heat transfer and fluid flow of natural convection along a vertical flat plate in the transition region: Experimental wall temperature field, Int J Heat Mass Transfer 38(18) 3485-3495 (Dec 1995), 2A1093
Fractal features of oscillatory convection in the half-floating zone, Int J Heat Mass Transfer 38(17) 3295-3303 (Nov 1995), 2A1098
Three-dimensional driven-cavity flows with a vertical temperature gradient, Int J Heat Mass Transfer 38(18) 3319-3328 (Dec 1995), 2A1100
Turbulent flow calculations of mixed convection in a periodically-ribbed channel, J Enhanced Heat Transfer 2(4) 295-305 (1995), 2A1101
Experimental investigation for fluid flow and heat transfer in a rotating tube with twisted-tape inserts, Heat Transfer Eng 16(2) 19-28 (Jun 1995), 2A1104
Effect of the temperature dependence of fluid properties on the migration of an interface in double diffusive natural convection, Int J Heat Mass Transfer 38(18) 3413-3421 (Dec 1995), 2A1164
Nonclassical thermal effects in Stokes' second problem, Acta Mech 112(1-4) 1-9 (1995), 3A897
Numerical laminar and turbulent fluid flow and heat transfer predictions in tube banks, Int J Numer Methods Heat & Fluid Flow 5(8) 717-733 (Oct 1995), 3A1020
Numerical visualization of convective heat transfer from a sphere-with and without radial mass efflux, Int J Numer Methods Heat & Fluid Flow 5(8) 705-716 (Oct 1995), 3A1021
Numerical study of convective heat transfer from a blunt plate at low Reynolds number, Int J Heat Mass Transfer 39(1) 125-133 (Jan 1996), 3A1031
Conjugate heat transfer and buoyancy-driven secondary flow in the cooling channels within a vertical slab, Numer Heat Transfer A 28(4) 443-460 (Oct 1995), 3A1033
Conjugate natural convection in a planar thermosyphon with multiple inlets - I: Velocity and temperature fields, Int J Heat Mass Transfer 39(1) 49-59 (Jan 1996), 3A1034
Conjugate natural convection in a planar thermosyphon with multiple inlets - II: Heat transfer, Int J Heat Mass Transfer 39(1) 61-68 (Jan 1996), 3A1035
Experimental study of natural convection heat transfer between an outer horizontal cylindrical envelope and an inner concentric heated square cylinder with two slots, Heat and Mass Transfer Warme 30(6) 455-459 (Sep 1995), 3A1037
Low Rayleigh number conjugate convection in straight inclined fractures in rock, Numer Heat Transfer A 28(4) 389-408 (Oct 1995), 3A1041
Three-dimensional natural convection in an enclosure with an internal isolated vertical plate, J Heat Transfer 117(3) 619-625 (Aug 1995), 3A1047
Transient 3D natural convection in a rectangular enclosure, Int J Heat Mass Transfer 39(1) 13-26 (Jan 1996), 3A1048
Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, J Heat Transfer 117(3) 634-640 (Aug 1995), 3A1049
Adaptive FEM for mixed convection, J Thermophys Heat Transfer 9(4) 708-714 (Dec 1995), 3A1053
Computation of turbulent flow in mixed convection in a cavity with a localized heat source, J Heat Transfer 117(3) 649-658 (Aug 1995), 3A1056
Laminar, buoyancy induced flow structures in a bottom heated, aspect ratio 2 duct with through-flow, Int J Heat Mass Transfer 39(1) 1-11 (Jan 1996), 3A1058
Two and 3D heat transfer in mixed convection with streamwise periodic heating, Numer Heat Transfer A 28(4) 431-442 (Oct 1995), 3A1059
Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, J Thermophys Heat Transfer 9(4) 702-707 (Dec 1995), 3A1067
Stability and wind shear effects on meso-scale cellular convection, Boundary-Layer Meteorol 75(3) 263-285 (Aug 1995), 3T1346
Permanent 3D patterns in turbulent flows with essentially 2D wall configurations, Int J Heat Mass Transfer 39(2) 373-382 (Jan 1996), 4A1145
Investigation of 3D thermocapillary convection in a cubic container by a multi-grid method, Int J Heat Mass Transfer 39(3) 603-613 (Feb 1996), 4A1151
Steady natural convection in a double layer of immiscible liquids with density inversion, Int J Heat Mass Transfer 39(3) 467-478 (Feb 1996), 4A1154
Developing 3D laminar mixed convection in a circular tube inserted with longitudinal strips, Int J Heat Mass Transfer 39(2) 299-310 (Jan 1996), 4A1158
Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, Int J Heat Mass Transfer 39(3) 511-525 (Feb 1996), 4A1163
Numerical simulation of free convective flow using the lattice-Boltzmann scheme, Int J Heat Fluid Flow 16(5) 357-364 (Oct 1995), 5A1130
Numerical simulation of transient natural convection from an isothermal cavity open on a side, Numer Heat Transfer A 28(6) 755-768 (Dec 1995), 5A1131
Parametric study of buoyancy-induced flow and heat transfer from L-shaped corners with asymmetrically heated surfaces, Int J Heat Mass Transfer 39(4) 851-865 (Mar 1996), 5A1132
Laminar mixed convection in vertical elliptic ducts, Int J Heat Mass Transfer 39(4) 745-752 (Mar 1996), 5A1134
Embedded vortices in internal flow: Heat transfer and pressure loss enhancement, Int J Heat Fluid Flow 16(5) 376-388 (Oct 1995), 5A1139
Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, J Turbomachinery 117(3) 461-473 (Jul 1995), 5A1140
Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, J Turbomachinery 117(3) 474-484 (Jul 1995), 5A1141
Numerical study of steady laminar fully developed fluid flow and heat transfer in rectangular and elliptical ducts rotating about a parallel axis, Int J Heat Mass Transfer 39(4) 867-875 (Mar 1996), 5A1145
Direct numerical simulations of 2D chaotic natural convection in a differentially heated cavity of aspect ratio 4, J Fluid Mech 304 87-118 (Dec 1995), 6A901
Chaotic behavior and heat transfer performance of the natural convection around a hot horizontal cylinder affected by a flat ceiling, Int J Heat Mass Transfer 39(5) 1081-1091 (Mar 1996), 6A1074
Conjugate free convection due to a heated vertical plate, Int J Heat Mass Transfer 39(5) 1067-1080 (Mar 1996), 6A1075
Free convection from a horizontal moving sheet, Heat and Mass Transfer Warme 31(1-2) 57-64 (Dec 1995), 6A1077
Conjugate natural convection from an array of protruding heat sources, Numer Heat Transfer A 29(1) 1-18 (Jan 1996), 6A1081
Natural convection during melting and solidification of pure metals in a cavity, Numer Heat Transfer A 29(1) 49-63 (Jan 1996), 6A1085
Mixed convection in periodic open cavities with oscillatory throughflow, Numer Heat Transfer A 29(1) 33-47 (Jan 1996), 6A1091
Note on thermocouple measurements for laminar-turbulent transition phenomena in pipe flow, Exp Heat Transfer 8(3) 209-228 (Sep 1995), 6A1105
Magnetic structures in a dynamo simulation, J Fluid Mech 306 325-352 (Jan 1996), 7A1141
Analysis of laminar natural convection from a discrete isothermal flush heater mounted on the side wall of a partially open rectangular enclosure, Numer Heat Transfer A 29(2) 211-225 (Feb 1996), 7A1210
Higher order penalty-Galerkin FE approach to laminar natural convection in a square cavity, Numer Heat Transfer A 29(2) 197-210 (Feb 1996), 7A1212
Natural convection in a corrugated enclosure with mixed boundary conditions, J Solar Energy Eng 118(1) 50-57 (Feb 1996), 7A1213
Natural convection in partitioned 2D enclosures at higher Rayleigh numbers, Int J Heat Mass Transfer 39(7) 1407-1427 (May 1996), 7A1214
Transient natural convection heat transfer between concentric and vertically eccentric spheres, Int J Heat Mass Transfer 39(7) 1439-1452 (May 1996), 7A1215
Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, Numer Heat Transfer A 29(2) 165-179 (Feb 1996), 7A1216
Conjugate mixed convection in a channel: Modified five percent deviation rule, Int J Heat Mass Transfer 39(6) 1223-1234 (Apr 1996), 7A1218
Transient 3D convection of air in a differentially heated rotating cubic cavity, Int J Heat Mass Transfer 39(6) 1243-1255 (Apr 1996), 7A1221
Numerical investigation of heat flow and interfaces in the vertical zone-melting crystal growth, Numer Heat Transfer A 29(2) 131-146 (Feb 1996), 7A1225
Three-dimensional convection in the presence of strong vertical magnetic fields, Eur J Mech B 15(1) 1-15 (1996), 8A996
Laminar natural convection heat transfer from isothermal spheres, Int J Heat Mass Transfer 39(8) 1603-1615 (May 1996), 8A1075
Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, Heat and Mass Transfer Warme 31(3) 127-135 (Feb 1996), 8A1076
Transient natural convection between concentric and vertically eccentric spheres with mixed boundary conditions, Heat and Mass Transfer Warme 31(3) 137-143 (Feb 1996), 8A1083
Experimental study of unstable mixed convection of air in a bottom heated horizontal rectangular duct, Int J Heat Mass Transfer 39(8) 1649-1663 (May 1996), 8A1090
Unstable aiding and opposing mixed convection of air in a bottom-heated rectangular duct slightly inclined from the horizontal, J Heat Transfer 118(1) 47-55 (Feb 1996), 8A1099
Material-air composite cell, Int J Heat Mass Transfer 39(9) 1785-1795 (Jun 1996), 8A1108
Convection in a long box driven by heating and cooling on the horizontal boundaries, J Fluid Mech 310 61-87 (Mar 1996), 9A1072
Rayleigh number scaling in numerical convection, J Fluid Mech 310 139-179 (Mar 1996), 9A1073
Structure of shear-driven mixing with an unstable thermal stratification, J Fluids Eng 118(1) 55-60 (Mar 1996), 9A1074
Buoyant convection during the growth of compound semiconductors by the liquid-encapsulated Czochralski process with an axial magnetic field and with a non-axisymmetric temperature, J Fluids Eng 118(1) 155-159 (Mar 1996), 9A1080
Multiple sources of buoyancy in a naturally ventilated enclosure, J Fluid Mech 311 177-192 (Mar 1996), 9A1433
Natural ventilation of an enclosure containing two buoyancy sources, J Fluid Mech 311 153-176 (Mar 1996), 9A1434
Effect of the separation ratio on the transition between traveling waves and steady convection in the two-component Rayleigh-Benard problem, Eur J Mech B 15(2) 241-257 (1996), 10A1073
Steady-state numerical solution of the Navier-Stokes and energy equations around a horizontal cylinder at moderate Reynolds numbers from 100 to 500, Heat Transfer Eng 17(1) 31-81 (Mar 1996), 10A1246
Natural convection from a cylinder with multiple, low-conductivity, longitudinal baffles, Int J Heat Mass Transfer 39(10) 2077-2086 (Jul 1996), 10A1253
Experimental and numerical study of buoyancy-induced flow and heat transfer in an open annular cavity, Int J Heat Mass Transfer 39(10) 2053-2066 (Jul 1996), 10A1256
Natural convection over rotating cylindrical heat source in an enclosure, J Thermophys Heat Transfer 10(2) 303-311 (Jun 1996), 10A1258
Thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct, Heat and Mass Transfer Warme 31(4) 257-267 (Apr 1996), 10A1267
Influence of surface topography on rotating convection, J Fluid Mech 313 147-180 (Apr 1996), 11A891
Convective heat transfer and flow friction for water flow in microchannel structures, Int J Heat Mass Transfer 39(12) 2599-2608 (Aug 1996), 11A1108
Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, J Heat Transfer 118(2) 294-300 (May 1996), 11A1109
Direct simulations of turbulent unstratified natural convection in a vertical slot for Pr = 0.71, Int J Heat Mass Transfer 39(12) 2485-2494 (Aug 1996), 11A1120
Natural convection of high Prandtl number fluids with variable viscosity in a vertical slot, Int J Heat Mass Transfer 39(13) 2663-2670 (Sep 1996), 11A1124
Steady Rayleigh-Benard convection in a two-layer system of immiscible liquids, J Heat Transfer 118(2) 366-373 (May 1996), 11A1125
Instability of convection and heat transfer of high Prandtl number fluids in a vertical slot, J Heat Transfer 118(2) 359-365 (May 1996), 11A1128
Thermal effect on the recirculation zone in sudden-expansion gas flows, Int J Heat Mass Transfer 39(13) 2619-2624 (Sep 1996), 11A1139
Natural convection of non-Newtonian fluids along a wavy vertical plate including the magnetic field effect, Int J Heat Mass Transfer 39(13) 2831-2842 (Sep 1996), 11A1144
Cooperating thermosolutal convection in enclosures - II: Heat transfer and flow structure, Int J Heat Mass Transfer 39(13) 2683-2697 (Sep 1996), 11A1261
Rendering a subcritical Hopf bifurcation supercritical, J Fluid Mech 317 91-109 (Jun 1996), 12A121
Chaos in the thermal convection of weakly shear-thinning fluids, J Non-Newtonian Fluid Mech 63(2-3) 153-178 (Apr 1996), 12A1041
Finite-amplitude patterns of convection in a rectangular-planform container, J Fluid Mech 317 111-127 (Jun 1996), 12A1042
Effect of time varying thermal boundary conditions on oscillatory natural convection of a low-Prandtl-number fluid, Numer Heat Transfer A 29(7) 645-669 (May 1996), 12A1212
Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, Int J Heat Mass Transfer 39(14) 2869-2882 (Sep 1996), 12A1214
Simulation of 2D thermosolutal convection in liquid metals induced by horizontal temperature and species gradients, Int J Heat Mass Transfer 39(14) 2883-2894 (Sep 1996), 12A1296

354J. Stratified flow and free surface flow

Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids, Appl Mech Rev 48(11) 763-776 (Nov 1995), 1A996

Interactions of 3D viscous axisymmetric vortex rings with a free surface, Acta Mech Sinica 11(3) 229-238 (1995), 3A893

Effects of fluctuating body forces on annular liquid jets, Arch Appl Mech 65(8) 548-563 (Oct 1995), 3A898

Viscous-inviscid coupling in free surface ship flows, Int J Numer Methods Fluids 21(9) 699-722 (Nov 1995), 3A899

Classical solvability for the Hele-Shaw moving boundary problems with kinetic undercooling regularization, European J Appl Math 6(5) 421-439 (Oct 1995), 4A936

Crystalline Saffman-Taylor fingers, SIAM J Appl Math 55(6) 1511-1535 (Dec 1995), 4A937

Development of singularities in some moving boundary problems, European J Appl Math 6(5) 491-507 (Oct 1995), 4A938

Nonlinear interface dynamics in Hele-Shaw flows, European J Appl Math 6(5) 399-420 (Oct 1995), 4A940

Persistence of corners in free boundaries in Hele-Shaw flow, European J Appl Math 6(5) 455-490 (Oct 1995), 4A941

Cusp development in free boundaries, and 2D slow viscous flows, European J Appl Math 6(5) 441-454 (Oct 1995), 4A945

Experimental investigation on the effect of vibration on flow of liquid film in a horizontal duct, Exp Fluids 19(6) 383-387 (Oct 1995), 4A952

Flow generated by the rotation of a horizontal disk in a stratified fluid, Fluid Dyn Res 17(1) 27-47 (Dec 1995), 4A953

Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, J Fluid Mech 301 65-77 (Oct 1995), 4A1323

Spine-flux method for simulating free surface flows, J Comput Phys 122(2) 367-379 (Dec 1995), 5T62

Effect of surfactants on the wave growth and transition to slug flow, J Fluids Eng 117(3) 389-393 (Sep 1995), 5A201

Turbulent vortex ring-free surface interaction, J Fluids Eng 117(3) 374-381 (Sep 1995), 5A879

Algorithm for simulation of steady free surface flows, Int J Numer Methods Fluids 22(2) 103-120 (Jan 1996), 6A902

Computation of nonlinear free-surface flows, Annu Rev Fluid Mech 28 249-278 (1996), 6A903

Experimental studies of heavy radial density currents, J Env Eng 121(12) 920-929 (Dec 1995), 6A904

Vorticity, free surface, and surfactants, Annu Rev Fluid Mech 28 83-128 (1996), 6A905

Numerical simulation of coastal upwelling and interfacial instability of a rotating and stratified fluid, J Fluid Mech 305 47-75 (Dec 1995), 6A906

Eulerian FEM for time-dependent free surface problems in hydrodynamics, Int J Numer Methods Fluids 22(3) 175-194 (Feb 1996), 7A27

Unsteady behavior of a topography-modulated tripole, J Fluid Mech 307 11-41 (Jan 1996), 7A1058

Fourth Int Symposium on stratified flows held at Univ Joseph Fourier, Grenoble, June 29 - July 2, 1994, Dyn Atmos Oceans 23(1-4) 1-411 (Jan 1996), 7A1061

Numerical simulations of uniformly stratified fluid flow over topography, J Fluid Mech 306 1-30 (Jan 1996), 7A1062

Mathematical study of small oscillations of two non-miscible heavy liquids in a container (French), Mech Res Commun 23(1) 75-80 (Feb 1996), 7T1124

Finite element analysis of free surface flow through gates, Int J Numer Methods Fluids 22(5) 375-392 (Mar 1996), 8A26

Entrainment into 2D and axisymmetric turbulent gravity currents, J Fluid Mech 308 289-311 (Feb 1996), 8A874

Fourth International Symposium on Stratified Flows: Part B, University Joseph Fourier, Grenoble, June 29 - July 2, 1994, Dyn Atmos Oceans 24(1-4) 1-256 (Jan 1996), 8A875

Computation of free surface flows - Part III: Steady supercritical flow using a generalized Lagrangian method, J Hydraul Res 34(1) 77-98 (1996), 8A891

Roll waves in falling films: An approximate treatment of the velocity field, Int J Heat Fluid Flow 17(1) 63-70 (Feb 1996), 8A892

Surface manifestations of turbulent flow, J Fluid Mech 308 15-29 (Feb 1996), 8A893

Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, J Fluid Mech 309 85-91 (Feb 1996), 8A1356

Trapping of waves by horizontal cylinders in a channel containing two-layer fluid, Arch Mech 47(6) 1183-1187 (1995), 9A294

Simultaneous mapping of the velocity and deformation field at a free surface, Exp Fluids 20(5) 358-364 (Mar 1996), 9A1075

Novel oscillation phenomenon of the water rivulet on a smooth hydrophobic surface, Acta Mech 115(1-4) 27-37 (1996), 9A1178

Development and structure of a gravity current head, Exp Fluids 20(6) 410-416 (Apr 1996), 10A1074

Note on withdrawal through a point sink in fluid of finite depth, J Austral Math Soc B 37(3) 406-416 (Jan 1996), 11A892

Planar liquid sheets at low Reynolds numbers, Int J Numer Methods Fluids 22(10) 961-978 (May 1996), 11A893

Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995 (SIAM, Phila, PA, 1996) 12N39

Multiple-source wind tunnel design for producing turbulent shear flows in a stably stratified fluid, Exp Fluids 21(1) 66-69 (May 1996), 12A1043

Solution for spin-up from rest of liquid with a free surface, AIAA J 34(7) 1441-1446 (Jul 1996), 12A1045

High-Reynolds-number weakly stratified flow past an obstacle, J Fluid Mech 317 155-178 (Jun 1996), 12A1047

Experimental investigation of microbursts, Exp Fluids 21(1) 17-25 (May 1996), 12A1416

354K. Rotating flow or surfaces

Effect of rotary arms on corotating disk flow, J Fluids Eng 117(2) 259-262 (Jun 1995), 1A997

Numerical investigation of the scaling capacity of centrifugal instabilities in shaft seals, Int J Heat Fluid Flow 16(4) 254-262 (Aug 1995), 1A998

Flow-history effect on higher modes in the spherical Couette system, J Fluid Mech 295 43-60 (Jul 1995), 1A1073

Numerical study of the oscillations of axially excited liquid annuli with rotational symmetry enclosed in revolving circular cylindrical containers, J Fluid Mech 297 215-230 (Aug 1995), 2A881

Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, J Fluid Mech 299 35-71 (Sep 1995), 2A885

Nonlinear Ekman suction and ageostrophic effects in rapidly rotating flows, Geophys Astrophys Fluid Dyn 79(1-4) 201-222 (Aug 1995), 3A900

Hydrodynamic Propulsion and Its Optimization: Analytic Theory - Fluid Mechanics and Its Applications Series, Vol 27 (Kluwer, Netherlands, 1995) 4R24

Flow generated by the rotation of a horizontal disk in a stratified fluid, Fluid Dyn Res 17(1) 27-47 (Dec 1995), 4A953

Anchored edge pitching response of a spinning frictionless liquid column due to bottom and/or top excitation, Forschung Ingenieur 61(10) 259-270 (Oct 1995), 4A954

Effect of vortices on liquid outflow from vessels, Proc Inst Mech Eng C 209(C5) 363-370 (1995), 4A955

Experimental study of liquid sheets formed in coaxial swirl injectors, J Propulsion Power 11(6) 1103-1109 (Dec 1995), 4A956

Experimental study of spherical Couette flow in magnetic fluids: Torque characteristics for outer sphere rotation, JSME Int J Ser B 38(4) 570-575 (Nov 1995), 4T957

Inertial wave dynamics in a rotating and precessing cylinder, J Fluid Mech 303 233-252 (Nov 1995), 4A958

Transverse motion of a disk through a rotating viscous fluid, J Fluid Mech 301 295-324 (Oct 1995), 4A959

Role of Ekman pumping in confined, electromagnetically-driven flows, Eur J Mech B 14(6) 795-821 (1995), 4A1097

Effect of rotation on double-diffusive convection in a laterally heated vertical slot, J Fluid Mech 301 345-370 (Oct 1995), 4A1245

Stuart vortices on a beta-plane, Dyn Atmos Oceans 22(4) 213-238 (Dec 1995), 5T878

Flow induced by an asymmetrically placed disk rotating coaxially inside a cylindrical casing, Acta Mech 113(1-4) 9-19 (1995), 5A883

Rotation of a cylinder in a casing at zero reynolds number, J Appl Mech 62(3) 662-666 (Sep 1995), 5A884

Unsteady viscous flow between eccentric rotating disks, Int J Non-Linear Mech 30(5) 711-717 (Sep 1995), 5A885

Selection of prognostic equations for the rotating motion in simulating Czochralski flow, Numer Heat Transfer B 28(4) 385-399 (Dec 1995), 5A894

Fluid flow analysis in an axially rotating porous pipe with mass injection at the wall, Numer Heat Transfer A 28(6) 723-737 (Dec 1995), 5A1298

Numerical simulation of coastal upwelling and interfacial instability of a rotating and stratified fluid, J Fluid Mech 305 47-75 (Dec 1995), 6A906

Unsteady behavior of a topography-modulated tripole, J Fluid Mech 307 11-41 (Jan 1996), 7A1058

Numerical modeling and particle image velocimetry measurement of the laminar flow field induced by an enclosed rotating disc, Int J Numer Methods Fluids 22(4) 283-296 (Feb 1996), 7A1063

Magnetic structures in a dynamo simulation, J Fluid Mech 306 325-352 (Jan 1996), 7A1141

Computation of flow development through stationary and rotating U-ducts of strong curvature, Int J Heat Fluid Flow 17(1) 22-33 (Feb 1996), 8A894

Recirculation zones of unconfined and confined annular swirling jets, AIAA J 34(3) 572-579 (Mar 1996), 8A968

Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, J Fluid Mech 309 85-91 (Feb 1996), 8A1356

Symmetry-breaking bifurcations in spherical Couette flow, J Fluid Mech 310 293-324 (Mar 1996), 9A165

Hydrodynamic stability of pendent drop under a liquid column, J Appl Mech 63(1) 106-109 (Mar 1996), 9A1076

Numerical and experimental studies of annular flume flow, Appl Math Model 20(3) 225-231 (Mar 1996), 9A1077

Stokes flow of a rotating sphere around the axis of a circular orifice or a circular disk, Acta Mech Sinica 11(4) 307-317 (1995), 10A1070

Flow of a shear-thinning liquid in a cylindrical container with a rotating end wall, Exp Thermal Fluid Sci 12(4) 381-387 (May 1996), 10A1075

Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, J Non-Newtonian Fluid Mech 63(1) 1-31 (Mar 1996), 10A1076

Flow of a fluid of grade two between two eccentric rotating spheres, Z Angew Math Phys 47(2) 313-332 (Mar 1996), 10A1080

Nonlinear behavior of contained inertia waves, J Fluid Mech 315 151-173 (May 1996), 11A200

Similarity solutions for the squeezed film flow between two rotating naturally permeable discs, Z Angew Math Mech 76(5) 291-299 (1996), 11A883

Rotation of a slotted cylinder in a fluid at low Reynolds number: Implication on the no-slip condition for grates, Mech Res Commun 23(3) 305-312 (Jun 1996), 11T887

Slow viscous flow past two rotating cylinders, Quart J Mech Appl Math 49(2) 195-216 (May 1996), 11A888

Influence of surface topography on rotating convection, J Fluid Mech 313 147-180 (Apr 1996), 11A891

Experimental and numerical study of orifice discharge coefficients in high-speed rotating disks, J Turbomachinery 118(2) 400-407 (Apr 1996), 11A894

Numerical procedure for predicting multiple solutions of a spherical Taylor-Couette flow, Int J Numer Methods Fluids 22(11) 1135-1147 (Jun 1996), 11A895

Turbulent flow between two disks contrarotating at different speeds, J Turbomachinery 118(2) 408-413 (Apr 1996), 11A896

Experimental study of absolute instability of the rotating-disk boundary-layer flow, J Fluid Mech 314 373-405 (May 1996), 11A985

Experimental and computational investigation of flow in a radial inlet of an industrial pipeline centrifugal compressor, J Turbomachinery 118(2) 371-384 (Apr 1996), 11A1052

Role of secondary vorticity in parallel blade-vortex interactions, AIAA J 34(6) 1195-1202 (Jun 1996), 11A1069

Flow analyses in a single-stage propulsion pump, J Turbomachinery 118(2) 240-249 (Apr 1996), 11A1073

Two-dimensional vortex dynamics in a stratified barotropic fluid, J Fluid Mech 314 139-161 (May 1996), 11A1416

Dynamics of a vortex ring in a rotating fluid, J Fluid Mech 317 215-239 (Jun 1996), 12A1033

Numerical study of viscous flows inside partially filled spinning and coning cylinders, J Fluids Eng 118(2) 335-340 (Jun 1996), 12A1044

Solution for spin-up from rest of liquid with a free surface, AIAA J 34(7) 1441-1446 (Jul 1996), 12A1045

Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, J Non-Newtonian Fluid Mech 64(1) 71-92 (May 1996), 12A1046

Rotating gas-liquid flows in finite cylinders: Sensitivity of standing vortices to end effects, Exp Fluids 21(2) 124-138 (Jun 1996), 12A1088

Time-dependent viscous deformation of a drop in a rapidly rotating denser fluid, J Fluid Mech 317 275-299 (Jun 1996), 12A1091

354M. Nonequilibrium and chemical effects

Interaction of traveling chemical waves with density driven hydrodynamic flows, Physica D 86(3) 508-513 (Sep 1995), 2A882

Nonclassical thermal effects in Stokes' second problem, Acta Mech 112(1-4) 1-9 (1995), 3A897

Mathematical model for the density-augmented spreading of a particle-laden discharge in a turbulent shallow-water flow, J Eng Math 29(6) 497-516 (Nov 1995), 4A1361

354O. Flow around bodies

Force and moment on a body in an incompressible fluid, with application to rigid bodies and bubbles at high and low Reynolds numbers, Quart J Mech Appl Math 48(3) 401-426 (Aug 1995), 1A990

Boundary conditions in the vicinity of the contact line at a vertically oscillating upright plate: An experimental investigation, J Fluid Mech 295 263-300 (Jul 1995), 1A995

Computation of steady and unsteady viscous flows using a simultaneously coupled inviscid-viscous interaction technique, J Fluids Struct 9(6) 639-657 (Aug 1995), 1A999

Dynamic equations of motion for a rigid or deformable body in an arbitrary non-uniform potential flow field, J Fluid Mech 295 91-120 (Jul 1995), 1A1000

High-resolution simulations of the flow around an impulsively started cylinder using vortex methods, J Fluid Mech 296 1-38 (Aug 1995), 1A1001

Particle drag coefficient in solid rocket plumes, J Thermophys Heat Transfer 9(3) 567-569 (Sep 1995), 1T1002

Fourier-Kochin formulation of wave diffraction-radiation by ships or offshore structures, Ship Tech Res 42(3) 115-139 (Jul 1995), 1A1098

Stokes flow past two circular cylinders using a BEM, Comput Fluids 24(7) 787-798 (Sep 1995), 2A50

Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, J Non-Newtonian Fluid Mech 59(2-3) 245-265 (Sep 1995), 2A392

Spectral BE approach to 3D Stokes flow, J Fluid Mech 298 167-192 (Sep 1995), 2A874

h^4 accurate vorticity-velocity formulation for calculating flow past a cylinder, Int J Numer Methods Fluids 21(6) 489-497 (Sep 1995), 2A883

Numerical study of flow over a confined backward-facing step, Int J Numer Methods Fluids 21(8) 653-665 (Oct 1995), 2A884

Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, J Fluid Mech 299 35-71 (Sep 1995), 2A885

Oseen drag at infinite Reynolds number, SIAM J Appl Math 55(5) 1227-1232 (Oct 1995), 2A886

Split Lagrangian-Eulerian method for simulating transient viscoelastic flows, J Non-Newtonian Fluid Mech 60(1) 81-104 (Oct 1995), 3A456

Navier-Stokes analysis of a circulation control airfoil, Acta Mech Sinica 11(2) 137-143 (1995), 3A894

Experimental investigations of free vibrations of cylinder in water near a plane bottom, J Fluids Struct 9(7) 715-727 (Oct 1995), 3T901

Study on wire sweep in encapsulation of semiconductor chips using simulated experiments, J Electron Packaging 117(3) 178-184 (Sep 1995), 3A902

Vortex lock-on for a rotationally oscillating circular cylinder: A BEM numerical study, Eng Anal Boundary Elements 15(3) 235-247 (1995), 3A903

Navier-Stokes Equations in Irregular Domains - Mathematics and Its Applications Series, Vol 326 (Kluwer, Netherlands, 1995) 4R26

Sedimentation of a sphere through an elastic fluid - Part 1: Steady motion, J Non-Newtonian Fluid Mech 60(2-3) 225-257 (Nov 1995), 4A21

Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, JSME Int J Ser B 38(4) 576-581 (Nov 1995), 4A902

Experimental study of 3D separation on a large-scale model, AIAA J 33(11) 2107-2113 (Nov 1995), 4A944

Unsteady motion of solid bodies in creeping flows, J Fluid Mech 303 83-102 (Nov 1995), 4A949

Transverse motion of a disk through a rotating viscous fluid, J Fluid Mech 301 295-324 (Oct 1995), 4A959

Analysis of transverse flow in aligned fibrous porous media, Composites Part A Appl Sci and Manuf 27A(1) 25-34 (1996), 4A960

Experimental study of saddle point of attachment in laminar juncture flow, AIAA J 33(12) 2288-2292 (Dec 1995), 4A961

Motion of a body through a large-scale inhomogeneity in a stratified atmosphere, J Appl Math Mech 59(3) 409-414 (1995), 4A962

Unsteady flow about a sphere at low to moderate Reynolds number - Part 2: Accelerated motion, J Fluid Mech 303 133-153 (Nov 1995), 4A963

Wall effects on the flow of viscoelastic fluids around a circular cylinder, J Non-Newtonian Fluid Mech 60(2-3) 179-198 (Nov 1995), 4A969

Aerodynamics of high speed trains passing by each other, Comput Fluids 24(8) 897-908 (Nov 1995), 4A970

Viscous oscillatory flow about a circular cylinder at small to moderate Stroubal number, J Fluid Mech 303 215-232 (Nov 1995), 4A1047

Impact of two bodies one of which is covered by a thin layer of liquid, J Fluid Mech 300 43-58 (Oct 1995), 4A1050

Computational study of turbulent diffusion in a thermally-stratified channel with obstruction, J

Wind Eng Indust Aerodyn 58(1-2) 19-32 (Oct 1995), 4A1079
Motion of a circular cylinder in a viscous liquid between parallel plates, Theor Comput Fluid Dyn 7(6) 441-455 (1995), 5A886
Numerical simulation of forced wakes around a cylinder, Int J Heat Fluid Flow 16(5) 327-332 (Oct 1995), 5A893
Effect of body geometry and incident flow characteristics on the distortion of turbulence, J Wind Eng Indust Aerodyn 58(3) 175-203 (Dec 1995), 5T962
Numerical simulations of uniformly stratified fluid flow over topography, J Fluid Mech 306 1-30 (Jan 1996), 7A1062
Numerical simulation of a cylinder in uniform flow: Application of a virtual boundary method, J Comput Phys 123(2) 450-465 (Feb 1996), 7T1064
Field Measurement of boulder flow drag, J Hydraul Eng 122(3) 167-169 (Mar 1996), 8T895
Flow past a sphere in polystyrene-based Boger fluids: The effect on the drag coefficient of finite extensibility, solvent quality, and polymer molecular weight, J Non-Newtonian Fluid Mech 62(1) 81-94 (Jan 1996), 8A896
High order panel method based on source distribution and Gaussian quadrature, Ship Tech Res 43(1) 38-47 (Feb 1996), 8A897
Huygens principle for flow around an arbitrary body in a viscous incompressible fluid, Fluid Dyn Res 17(4) 213-223 (Mar 1996), 8A898
Modern developments in flow control, Appl Mech Rev 49(7) 365-379 (Jul 1996), 8A899
Symmetrical flow past an accelerated circular cylinder, J Fluid Mech 308 97-110 (Feb 1996), 8A963
Motion simulation of a cylinder at the surface of a viscous fluid, Ship Tech Res 43(1) 3-18 (Feb 1996), 8A1003
Interactions of vortex-induced vibrations of a circular cylinder and a steady approach flow at a Reynolds number of 13,000, Comput Fluids 25(3) 283-294 (Mar 1996), 9A304
Vortex shedding from bluff bodies and a universal Strouhal number, J Fluids Struct 10(2) 159-171 (Feb 1996), 9T330
Inertial coating of a fiber, J Fluid Mech 311 219-237 (Mar 1996), 9A1068
Direct numerical simulation of flow past elliptic cylinders, J Comput Phys 124(2) 351-367 (Mar 1996), 9T1078
High-order explicit method for the computation of flow about a circular cylinder, J Comput Phys 125(1) 207-224 (Apr 1996), 9T1079
Numerical analysis of incompressible flow over smooth and grooved circular cylinders, Comput Fluids 25(3) 263-281 (Mar 1996), 9A1089
Vortex shedding from bluff bodies with splitter plates, J Fluids Struct 10(2) 147-158 (Feb 1996), 9A1160
Plane potential flow through the inhomogeneous porous line, Z Angew Math Mech 76(4) 231-240 (1996), 10A1065
Accelerated flow around a sphere, Appl Math letters 9(3) 41-46 (May 1996), 10A1072
Existence of solutions for 2D Stokes flows past rigid obstacles, Arch Mech 48(2) 385-394 (1996), 10A1077
Wall effects for a sphere falling in a non-Newtonian fluid, J Brazilian Soc Mech Sci 18(1) 97-102 (Mar 1996), 10A1149
Development of a nonstationary separation and coherent structures in a 2D viscous incompressible flow around a body, Arch Mech 48(2) 395-410 (1996), 10A1192
Numerical study of the blockage effects on viscous flow past a circular cylinder, Int J Numer Methods Fluids 22(11) 1061-1074 (Jun 1996), 11A881
Numerical study of the flow over ellipsoidal objects inside a cylindrical tube, Int J Numer Methods Fluids 22(11) 1075-1087 (Jun 1996), 11A897
Three-dimensional wake formations behind a family of regular polygonal plates, AIAA J 34(6) 1138-1145 (Jun 1996), 11A898
Incompressible flow solver of arbitrarily moving bodies with rigid surface, JSME Int J Ser B 39(2) 315-325 (May 1996), 11T906
Stability of leading-edge vortex pair on a slender delta wing, AIAA J 34(6) 1182-1187 (Jun 1996), 11A986
Effects due to initial perturbations on the modeling of vortex shedding from a bluff body in a laminar flow, Int J Comput Fluid Dyn 6(4) 337-344 (1996), 12A1034
High-Reynolds-number weakly stratified flow past an obstacle, J Fluid Mech 317 155-178 (Jun 1996), 12A1047
Operator splitting algorithm for viscoelastic flow and numerical analysis for the flow around a sphere in a tube, J Non-Newtonian Fluid Mech 63(2-3) 121-140 (Apr 1996), 12A1048
Squeeze film between two spheres in a power-law fluid, J Non-Newtonian Fluid Mech 63(2-3) 141-152 (Apr 1996), 12A1050

354P. Surface tension flow (eg in low gravity environments)

Energy-minimizing states of capillary systems with bulk, surface, and line phases, IMA J Appl Math 55(1) 1-17 (1995), 1A1003
Macroscopic wetting behavior of a 2D meniscus under a horizontal plate, J Fluids Eng 117(2) 303-308 (Jun 1995), 1T1004
Numerical study of the oscillations of axially excited liquid annuli with rotational symmetry enclosed in revolving circular cylindrical containers, J Fluid Mech 297 215-230 (Aug 1995), 2A881
Hydrodynamical instabilities of thermocapillary flow in a half-zone, J Fluid Mech 297 357-372 (Aug 1995), 2A887
Validity of Laplace formula and dependence of surface tension on curvature in second gradient fluids, Mech Res Commun 22(5) 485-490 (Oct 1995), 2T888
Lateral capillary interaction between particles protruding from a spherical liquid layer, J Fluid Mech 299 105-132 (Sep 1995), 2A922
Mathematical study of the small oscillations of a liquid column in a symmetrical cylindrical container under zero gravity, J Fluids Struct 9(7) 773-786 (Oct 1995), 3T904
Existence of solutions in plane quasistationary Stokes flow driven by surface tension, European J Appl Math 6(5) 539-558 (Oct 1995), 4A946
Effects of interaction between Marangoni and double-diffusive instabilities, J Fluid Mech 303 1-21 (Nov 1995), 4A964
Spin-up and wrapping of cryogenic helium bubble around dewar well from rest in microgravity, Mech Res Commun 22(6) 615-625 (Dec 1995), 4T965
Marangoni instability in a liquid layer with two free surfaces, Eur J Mech B 14(6) 737-760 (1995), 4A1067
Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, Numer Heat Transfer A 28(6) 667-685 (Dec 1995), 5A1144
Capillary wedges revisited, SIAM J Math Anal 27(1) 56-69 (Jan 1996), 7A1065
Spreading of a drop of viscous liquid over a surface under the action of capillary forces, J Appl Math Mech 59(5) 735-743 (1995), 8A900
Combined capillarity and elasticity problem for a thin plate, SIAM J Appl Math 56(2) 480-493 (Apr 1996), 9A314
Buoyant convection during the growth of compound semiconductors by the liquid-encapsulated Czochralski process with an axial magnetic field and with a non-axisymmetric temperature, J Fluids Eng 118(1) 155-159 (Mar 1996), 9A1080
Numerical simulations of measurements of capillary contact angles, IMA J Numer Anal 16(2) 165-178 (1996), 9A1081
Simple shearing flow of a dry Kelvin soap foam, J Fluid Mech 311 327-343 (Mar 1996), 9A1082
Surfactant dynamics and rectified diffusion of microbubbles, J Fluid Mech 311 361-378 (Mar 1996), 9A1131
Thin film rupture, Appl Math letters 9(3) 35-40 (May 1996), 10A293
Implicit surface tension algorithm for Picard solvers of surface-tension-dominated free and moving boundary problems, Int J Numer Methods Fluids 22(9) 851-865 (May 1996), 10A1078
Pitching response of an anchored viscous liquid bridge to bottom and/or top disc excitation, Z Angew Math Mech 76(3) 127-143 (1996), 10A1079
Upward and downward annular liquid jets: Conservation properties, singularities, and numerical errors, Appl Math Model 20(6) 440-458 (Jun 1996), 11A872
Interfacial wave theory for oscillatory finger formation in a Hele-Shaw cell: A comparison with experiments, European J Appl Math 7(2) 169-199 (Apr 1996), 11A886
Ostwald ripening and coalescence of a binary alloy in 2D using a phase-field model, Model Simulation Mat Sci Eng 4(2) 215-229 (Mar 1996), 11A899
Capillary instability of an oscillating liquid column subjected to a periodic rigid-body rotation, Fluid Dyn Res 18(1) 17-34 (Jun 1996), 11A987
Symmetric singularity formation in lubrication-type equations for interface motion, SIAM J Appl Math 56(3) 681-714 (Jun 1996), 11A1256

354R. Non-Newtonian flow

Mechanism of drag reduction, J Non-Newtonian Fluid Mech 59(1) 93-101 (Aug 1995), 1A1051
Computation of 2D and 3D unsteady thermal non-Newtonian flows, Int J Numer Methods Heat & Fluid Flow 5(6) 495-510 (Aug 1995), 1A1209
Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, J Non-Newtonian Fluid Mech 59(2-3) 245-265 (Sep 1995), 2A392
Stationary quasi-Newtonian flow obeying a power-law, Math Methods Appl Sci 18(12) 927-948 (Sep 1995), 2A889
Numerical simulation and experimental verification of melt front advancements in coinjection molding process, Numer Heat Transfer A 28(4) 503-513 (Oct 1995), 3A905
Similarity solutions to shear flows of non-Newtonian power law fluids, Acta Mech 112(1-4) 229-236 (1995), 3A906
Nonuniqueness of the MHD flow of a viscoelastic fluid past a stretching sheet, Acta Mech 112(1-4) 223-228 (1995), 3A981
Viscous dissipation in non-Newtonian flows: Implications for the Nusselt number, J Thermophys Heat Transfer 9(4) 733-742 (Dec 1995), 3A1063
Sedimentation of a sphere through an elastic fluid - Part 1: Steady motion, J Non-Newtonian Fluid Mech 60(2-3) 225-257 (Nov 1995), 4A21
Density dependence of fluid properties and non-Newtonian flows: The Weissenberg effect, J Rheol 39(6) 1343-1359 (Dec 1995), 4A879
Numerical simulation of viscoelastic flow around a cylinder using an integral constitutive equation, J Rheol 39(6) 1279-1292 (Dec 1995), 4A882
Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, JSME Int J Ser B 38(4) 576-581 (Nov 1995), 4A902
Viscoelastic flow past a confined cylinder of a polyisobutylene solution, J Rheol 39(6) 1243-1277 (Dec 1995), 4A912
Numerical simulation of viscoelastic complex flows using the stream-tube method and optimization algorithms, Commun Numer Methods Eng 11(11) 917-925 (Nov 1995), 4A966
Second solution of flow of viscoelastic fluid over a stretching sheet, Quart Appl Math 53(4) 629-632 (Dec 1995), 4A967
Viscoelastic fluid flow over a continuous stretching surface with mass transfer, Mech Res Commun 22(6) 627-633 (Dec 1995), 4T968
Wall effects on the flow of viscoelastic fluids around a circular cylinder, J Non-Newtonian Fluid Mech 60(2-3) 179-198 (Nov 1995), 4A969
Stretching a surface in a rotating power-law fluid, Z Angew Math Mech 75(11) 876-878 (1995), 5T881
Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, European J Appl Math 6(6) 559-571 (Dec 1995), 5A887
Exact solutions for some simple flows of an Oldroyd-B fluid, Acta Mech 113(1-4) 233-239 (1995), 5A888
Thermal and hydrodynamic characteristics of enforced flows of thixotropic liquids in long ducts, Heat Transfer Res 25(7) 867-871 (1993), 5A1150
Numerical study of the flow of a low-density-polyethylene melt in a planar contraction and comparison to experiments, J Rheol 40(1) 21-35 (Feb 1996), 6A907
Dispersion relation at large frequencies for linear surface gravity waves on a Maxwell fluid-exhibiting a spatial decay, Z Angew Math Phys 47(1) 162-167 (Jan 1996), 8A200
Flow past a sphere in polystyrene-based Boger fluids: The effect on the drag coefficient of finite extensibility, solvent quality, and polymer molecular weight, J Non-Newtonian Fluid Mech 62(1) 81-94 (Jan 1996), 8A896
Flow of a power-law fluid film on an unsteady stretching surface, J Non-Newtonian Fluid Mech 62(1) 1-8 (Jan 1996), 8A901
Numerical technique for solving unsteady non-Newtonian free surface flows, J Non-Newtonian Fluid Mech 62(1) 9-34 (Jan 1996), 8A902
Report on the IXth International Workshop on Numerical Methods in Non-Newtonian Flows, J Non-Newtonian Fluid Mech 62(1) 99-110 (Jan 1996), 8T903
Creeping flow of a Bingham plastic through axisymmetric sudden contractions with viscous dissipation, Int J Heat Mass Transfer 39(8) 1555-1567 (May 1996), 8A1105
Non-newtonian flow prediction by divergence-free FEs, Stability Appl Anal Continuous Media 3(3) 164-180 (Sep 1993), 9A41
Numerical and experimental studies of annular flume flow, Appl Math Model 20(3) 225-231 (Mar 1996), 9A1077
Steady Ostwald flow between two differentially-rotating co-axial discs, Rheol Acta 35(1) 48-56 (Feb 1996), 9A1083
Transient rheological behavior of poly-para-phenyleneterephthalamide (PpPTA) in sulphuric acid, Rheol Acta 35(1) 57-68 (Feb 1996), 9A1084
Flow of a shear-thinning liquid in a cylindrical container with a rotating end wall, Exp Thermal Fluid Sci 12(4) 381-387 (May 1996), 10A1075
Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, J Non-Newtonian Fluid Mech 63(1) 1-31 (Mar 1996), 10A1076
Flow of a fluid of grade two between two eccentric rotating spheres, Z Angew Math Phys 47(2) 313-332 (Mar 1996), 10A1080
Wall effects for a sphere falling in a non-Newtonian fluid, J Brazilian Soc Mech Sci 18(1) 97-102 (Mar 1996), 10A1149
Nonisothermal pulsating flow of a viscoelastic fluid, Heat Transfer Res 25(8) 980-982 (1993), 10A1266
Experimental study and modeling of oscillating flow of high density polyethylenes, J Rheol 40(3) 383-394 (Jun 1996), 11A851
Similarity solutions to rotating Couette flow of non-Newtonian fluids in the presence of a magnetic field, Quart Appl Math 54(2) 345-358 (Jun 1996), 11A900
Subdomain residual method for a posteriori error estimates of FE solutions of viscoelastic fluid flows, Comput Methods Appl Mech Eng 130(1-2) 93-113 (Mar 1996), 12A1015
Use of interferometry of measure flow characteristics of an oscillating draining film, J Non-Newtonian Fluid Mech 64(1) 1-17 (May 1996), 12A1037
Finite element methods for nonlinearly viscous fluids, Z Angew Math Mech 76(6) 307-320 (1996), 12A1040
Chaos in the thermal convection of weakly shear-thinning fluids, J Non-Newtonian Fluid Mech 63(2-3) 153-178 (Apr 1996), 12A1041
Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, J Non-Newtonian Fluid Mech 64(1) 71-92 (May 1996), 12A1046
Operator splitting algorithm for viscoelastic flow and numerical analysis for the flow around a sphere in a tube, J Non-Newtonian Fluid Mech 63(2-3) 121-140 (Apr 1996), 12A1048
Flow of a yield stress fluid in a long domain: Application to flow on an inclined plane, J Rheol 40(4) 711-723 (Aug 1996), 12A1049
Squeeze film between two spheres in a power-law fluid, J Non-Newtonian Fluid Mech 63(2-3) 141-152 (Apr 1996), 12A1050

354Y. Computational techniques

Computational Modelling of Free and Moving Boundary Problems III (Comput Mech, Billerica MA, 1995) 1N28
Numerical computations of steady homenthalpic non-equilibrium flows, Comput Fluids 24(6) 719-737 (Jul 1995), 1A25
Head-on collision of two coaxial vortex rings: Experiment and computation, J Fluid Mech 296 39-71 (Aug 1995), 1A988
High-resolution simulations of the flow around an impulsively started cylinder using vortex methods, J Fluid Mech 296 1-38 (Aug 1995), 1A1001
Conservative semi-Lagrangian method for multidimensional fluid dynamics applications, Numer Methods PDE 11(5) 445-452 (Sep 1995), 1A1005
Hamiltonian approach to the investigation of the potential motions of an ideal fluid, J Appl Math Mech 59(1) 93-98 (1995), 1A1006
Hermitian-Fourier numerical method for solving the incompressible Navier-Stokes equations, Comput Fluids 24(6) 739-752 (Jul 1995), 1A1007
Multi-staging of Jacobi relaxation in multigrid methods for steady Euler equations - II, J Comput Appl Math 59(3) 339-348 (May 1995), 1A1008
Simulation of fluid mixing using least-squares FEs and particle tracing, Int J Numer Methods Heat & Fluid Flow 5(6) 549-573 (Aug 1995), 1A1009
Simultaneous viscous-invicid coupling via transpiration, J Comput Phys 120(2) 157-170 (Sep 1995), 1T1010
Well-posed numerical method to track isolated conformal map singularities in Hele-Shaw flow, J Comput Phys 120(2) 348-364 (Sep 1995), 1T1011
Evaluation of a higher-order bounded convection scheme: 3D numerical experiments, Numer Heat Transfer B 28(1) 23-38 (Aug 1995), 1A1221
Hybrid numerical method for Navier-Stokes equations based on simple algorithm, Numer Heat Transfer B 28(2) 155-170 (Sep 1995), 1A1222
Streamfunction-vorticity-based FE formulation for laminar-convection problems, Numer Heat Transfer B 28(1) 1-22 (Aug 1995), 1A1226
Transient solutions by a least-squares FEM and Jacobi conjugate gradient technique, Numer Heat Transfer B 28(2) 183-198 (Sep 1995), 1A1227
Element separation property and parallel FEMs for the Navier-Stokes equation, Appl Math letters 8(4) 97-102 (Jul 1995), 2A13
Operator-splitting schemes for the stream function-vorticity formulation, Comput Fluids 24(7) 771-786 (Sep 1995), 2A33
Adaptive discrete-velocity model for the shallow water equations, J Comput Phys 121(2) 271-280 (Oct 1995), 2T184
Vortex intensification and collapse of the Lissajous-elliptic ring: Single- and multi-filament Biot-Savart simulations and visicenetics, J Fluid Mech 299 289-331 (Sep 1995), 2A873
Spectral BE approach to 3D Stokes flow, J Fluid Mech 298 167-192 (Sep 1995), 2A874
Numerical simulation of the axisymmetric unsteady incompressible flow by a vorticity-velocity method, Int J Numer Methods Fluids 21(5) 401-411 (Sep 1995), 2A879
h^4 accurate vorticity-velocity formulation for calculating flow past a cylinder, Int J Numer Methods Fluids 21(6) 489-497 (Sep 1995), 2A883

Numerical study of flow over a confined backward-facing step, Int J Numer Methods Fluids 21(8) 653-665 (Oct 1995), 2A884

Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, J Fluid Mech 299 35-71 (Sep 1995), 2A885

Accurate upwind methods for the Euler equtaions, SIAM J Numer Anal 32(5) 1565-1619 (Oct 1995), 2A890

Artificial boundary conditions for the numerical solution of external viscous flow problems, SIAM J Numer Anal 32(5) 1355-1389 (Oct 1995), 2A891

Convergence of vortex methods for weak solutions to the 2D Euler equations with vortex sheet data, Commun Pure Appl Math 48(6) 611-628 (Jun 1995), 2A892

Finite volume FLIC method and its stability analysis, Int J Mech Sci 37(11) 1147-1160 (Nov 1995), 2A893

Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, Stability Appl Anal Continuous Media 3(1) 57-70 (Mar 1993), 2T894

Operator-splitting methods for the incompressible Navier-Stokes equations on non-staggered grids - Part 1: First-order schemes, Int J Numer Methods Fluids 21(8) 617-640 (Oct 1995), 2A895

p-version least squares FE formulation for 3D, isothermal, incompressible, non-Newtonian fluid flow, Comput Struct 57(5) 799-816 (Dec 1995), 2A896

Preconditioned generalized minimum residual acceleration of panel methods, J Aircraft 32(5) 1155-1157 (Oct 1995), 2T897

Pressure-based control-volume FEM for flow at all speeds, AIAA J 33(9) 1611-1618 (Sep 1995), 2A898

Unstructured grid generation using iterative point insertion and local reconnection, AIAA J 33(9) 1619-1625 (Sep 1995), 2A899

Computational aeroacoustics: Issues and methods, AIAA J 33(10) 1788-1796 (Oct 1995), 3A293

Viscous-inviscid coupling in free surface ship flows, Int J Numer Methods Fluids 21(9) 699-722 (Nov 1995), 3A899

Computer simulation of the effect of wall thickness on the metal flow in diecasting dies, J Mat Processing Tech 52(2-4) 248-269 (Jul 1995), 3A907

Direct boundary integral method for the 2D lifting flow, Arch Mech 47(4) 813-824 (1995), 3A908

Effective vorticity-velocity formulations for 3D incompressible viscous flows, J Comput Phys 122(1) 68-82 (Nov 1995), 3A909

High-order compact scheme for the steady stream-function vorticity equations, Int J Numer Methods Eng 38(20) 3497-3512 (Oct 1995), 3A910

p-version least squares FE formulation for 3D, incompressible, non-isothermal, non-Newtonian fluid flow, Comput Struct 58(1) 85-105 (Jan 1996), 3A911

Use of conjugate gradients method with a segregated finite volume procedure for solving transient, in-compressible Navier-Stokes equations, Commun Numer Methods Eng 11(10) 849-856 (Oct 1995), 3A912

Multigrid acceleration of an upwind Euler solver on unstructured meshes, AIAA J 33(10) 1822-1827 (Oct 1995), 3A921

Perspective on computational fluid dynamics validation, AIAA J 33(10) 1778-1787 (Oct 1995), 3A922

Generalized differential and integral quadrature and their application to solve boundary layor equations, Int J Numer Methods Fluids 21(9) 723-733 (Nov 1995), 3A946

Multigrid calculation of steady, viscous flow in a triangular cavity, J Comput Phys 122(1) 107-117 (Nov 1995), 3A956

Application of the diffuse approximation for solving fluid flow and heat transfer problems, Int J Heat Mass Transfer 39(1) 214-218 (Jan 1996), 3T1075

Computational Fluid Dynamics: The Basics with Applications (McGraw-Hill, New York, 1995) 4R22

Comparison of implicit schemes for the incompress-ible Navier-Stokes equations, AIAA J 33(11) 2066-2072 (Nov 1995), 4A49

Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, Comput Fluids 24(8) 883-895 (Nov 1995), 4A950

Unsteady flow about a sphere at low to moderate Reynolds number - Part 2: Accelerated motion, J Fluid Mech 303 133-153 (Nov 1995), 4A963

Aerodynamics of high speed trains passing by each other, Comput Fluids 24(8) 897-908 (Nov 1995), 4A970

Analysis and FE approximation of optimal control problems for a Ladyzhenskaya model for station-ary, incompressible, viscous flows, J Comput Appl Math 61(3) 323-343 (Aug 1995), 4A971

Boundary-domain integral method using a velocity-vorticity formulation, Eng Anal Boundary Elements 15(4) 359-370 (1995), 4A972

Cell-vertex adaptive Euler method for cascade flows, AIAA J 33(12) 2299-2304 (Dec 1995), 4A973

Conditional Fourier spectral method for direct numerical simulation of incompressible flows, J Sci Comput 10(2) 271-287 (Jun 1995), 4A974

Derivation of minimal support basis functions for the discrete divergence operator, J Comput Appl Math 61(1) 105-116 (Jul 1995), 4A975

Hierarchically partitioned solution strategy for CFD applications - Part I: Theory, Comput Methods Appl Mech Eng 126(3-4) 197-222 (Oct 1995), 4A976

Hierarchically partitioned solution strategy for CFD applications - Part II: Numerical applications, Comput Methods Appl Mech Eng 126(3-4) 223-237 (Oct 1995), 4A977

Hybrid asymptotic-numerical method for low Reynolds number flows past a cylindrical body, SIAM J Appl Math 55(6) 1484-1510 (Dec 1995), 4A978

Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, AIAA J 33(11) 2073-2079 (Nov 1995), 4A979

Parameter identification for steady-state groundwater flow, Finite Elements Anal Des 20(4) 233-252 (Sep 1995), 4A980

Segregated implicit solution algorithm for 2D and 3D laminar incompressible flows, Int J Numer Methods Fluids 21(11) 1067-1086 (Dec 1995), 4A981

Third-order upwind FE computation of the incom-pressible Navier-Stokes equations - Part I: Computation of flow around rectangular cylinders, Comput Methods Appl Mech Eng 127(1-4) 87-97 (Nov 1995), 4A982

Third-order upwind FE computation of the incom-pressible Navier-Stokes equations - Part II: Aerodynamic characteristics of a rectangular cylinder with an angle of attack, Comput Methods Appl Mech Eng 127(1-4) 99-113 (Nov 1995), 4A983

Three-dimensional flow simulation on high-perform-ance computers, Z Angew Math Mech 75(10) 731-739 (1995), 4A984

Preconditioning applied to variable and constant density flows, AIAA J 33(11) 2050-2057 (Nov 1995), 4A998

Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, J Non-Newtonian Fluid Mech 60(2-3) 129-154 (Nov 1995), 4A1006

Mass conservative least-squares FEM for the Stokes problem, Commun Numer Methods Eng 11(12) 965-970 (Dec 1995), 5A14

Rotation of a cylinder in a casing at zero reynolds number, J Appl Mech 62(3) 662-666 (Sep 1995), 5A884

Equal-order control-volume FEM for fluid flow in arbitrary triangulations, Numer Heat Transfer B 28(4) 401-413 (Dec 1995), 5A889

Iterative methods in solving Navier-Stokes equations by the BEM, Int J Numer Methods Eng 39(1) 115-139 (Jan 1996), 5A890

Least-squares FEM for incompressible flow in stress-velocity-pressure version, Comput Methods Appl Mech Eng 128(1-2) 1-9 (Dec 1995), 5A891

Methods of solution of the velocity-vorticity formula-tion of the Navier-Stokes equations, J Comput Phys 122(2) 300-306 (Dec 1995), 5A892

Numerical simulation of forced wakes around a cylinder, Int J Heat Fluid Flow 16(5) 327-332 (Oct 1995), 5A893

Selection of prognostic equations for the rotating motion in simulating Czochralski flow, Numer Heat Transfer B 28(4) 385-399 (Dec 1995), 5A894

Simple model of chaotic advection and scattering, Chaos 5(4) 671-686 (Dec 1995), 5A895

Block correction-aided, strongly implicit procedure to treat simultaneous linear equations arising from implicit discretization of 3D field equations, Numer Heat Transfer B 28(4) 371-384 (Dec 1995), 5A1155

Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany (Wiley, New York, 1995) 6N3

Finite element solution of incompressible flows using an explicit segregated approach, Arch Comput Methods Eng 2(4) 69-93 (1995), 6A21

Critical analysis of multi-dimensional upwinding for the Euler equations, Comput Fluids 25(1) 29-38 (Jan 1996), 6A895

Adaptive solutions for unsteady laminar flows on unstructured grids, Int J Numer Methods Fluids 22(2) 85-101 (Jan 1996), 6A899

Direct numerical simulations of 2D chaotic natural convection in a differentially heated cavity of aspect ratio 4, J Fluid Mech 304 87-118 (Dec 1995), 6A901

Computation of nonlinear free-surface flows, Annu Rev Fluid Mech 28 249-278 (1996), 6A903

Analysis and convergence of the MAC scheme - Part II: Navier-Stokes equations, Math Comput 65(213) 29-44 (Jan 1996), 6A908

Calculation of streaklines for time periodic flows, AIAA J 34(1) 79-82 (Jan 1996), 6A909

Design considerstions for numerical filters used in vortex-in-cell algorithms, Comput Fluids 25(1) 61-75 (Jan 1996), 6A910

Implicit multigrid algorithm for computing hyper-sonic, chemically reacting viscous flows, J Comput Phys 123(1) 84-95 (Jan 1996), 6T911

Mesh generation and numerical simulation of fluid en-tering a large tube bundle, J Thermophys Heat Transfer 10(1) 109-118 (Mar 1996), 6A912

Second order defect correction scheme for unsteady problems, Comput Fluids 25(1) 9-27 (Jan 1996), 6A913

Short note on the high-order streamfunction-vorticity formulations of 2D steady state Navier-Stokes equations, Int J Numer Methods Fluids 22(1) 1-9 (Jan 1996), 6A914

Unified time-marching procedure for compressible and incompressible flows, J Hydrodyn 7(4) 13-21 (1995), 6A915

Upwind relaxation multigrid method for computing 3D, viscous internal flows, J Propulsion Power 12(1) 146-154 (Feb 1995), 6A916

Phase-locked high-speed real-time interferometry sys-tem for large amplitude unsteady flows, Exp Fluids 20(2) 61-67 (Dec 1995), 6A1058

Computational fluid dynamics applied to internal gas-turbine blade cooling: A review, Int J Heat Fluid Flow 16(6) 454-470 (Dec 1995), 6A1100

Convection treatment and pressure splitting for sequential solution procedures - Part I: Theory and 1D test cases, Numer Heat Transfer B 29(1) 1-27 (Feb 1996), 6A1101

Convection treatment and pressure splitting for sequential solution procedures - Part II: Pressure-based algorithm, Numer Heat Transfer B 29(1) 29-42 (Feb 1996), 6A1102

Spectral multidomain technique for the computation of the Czochralski melt configuration, Int J Numer Methods Heat & Fluid Flow 6(1) 31-58 (Jan 1996), 6A1103

Numerical Methods for Fluid Dynamics 5 (Oxford UP, New York, 1995) 7N25

Convection treatment using spectral elements of different order, Int J Numer Methods Fluids 22(4) 241-264 (Feb 1996), 7A63

Interactive RANS-Laplace method for nonlinear free surface flows, J Eng Math 122(2) 153-162 (Feb 1996), 7A275

Penetration of a blade into a vortex core: Vorticity re-sponse and unsteady blade forces, J Fluid Mech 306 83-109 (Jan 1996), 7A1057

Numerical modeling and particle image velocimetry measurement of the laminar flow field induced by an enclosed rotating disc, Int J Numer Methods Fluids 22(4) 283-296 (Feb 1996), 7A1063

Numerical simulation of a cylinder in uniform flow: Application of a virtual boundary method, J Comput Phys 123(2) 450-465 (Feb 1996), 7T1064

Analysis of a streamline diffusion FEM for the Stokes and Navier-Stokes equations, SIAM J Numer Anal 33(1) 107-127 (Feb 1996), 7A1066

Collocated diffuse approximation method for 2D incompressible channel flows, Mech Res Commun 23(1) 61-66 (Feb 1996), 7T1067

Fast iterative solvers for the discretized incompress-ible Navier-Stokes equations, Int J Numer Methods Fluids 22(3) 195-210 (Feb 1996), 7A1068

Finite-difference scheme for 3D incompressible flows in cylindrical coordinates, J Comput Phys 123(2) 402-414 (Feb 1996), 7A1069

Iterative solution of the incompressible Navier-Stokes equations on the meiko computing surface, Int J Numer Methods Fluids 22(4) 225-240 (Feb 1996), 7A1070

Multilevel mesh independence principle for the Navier-Stokes equations, SIAM J Numer Anal 33(1) 17-30 (Feb 1996), 7A1071

Stability of Godunov-projection methods for incom-pressible flow, J Comput Phys 123(2) 435-449 (Feb 1996), 7T1072

Unstructured tetrahedral mesh generation for 3D viscous flows, Int J Numer Methods Eng 39(4) 549-567 (Feb 1996), 7A1073

Iterative implementation of an implicit-explicit hybrid scheme for hydrodynamics, J Comput Phys 124(1) 217-229 (Mar 1996), 8A67

Numerical computation of vortex sheet roll-up in the background shear flow, Fluid Dyn Res 17(4) 195-212 (Mar 1996), 8A884

Parallel block adaptive multigrid method for the implicit solution of the Euler equations, Int J Numer Methods Fluids 22(5) 411-428 (Mar 1996), 8A885

Two-dimensional vortex methods and singular quadrature rules, J Comput Phys 124(1) 131-145 (Mar 1996), 8A887

Computation of free surface flows - Part III: Steady supercritical flow using a generalized Lagrangian method, J Hydraul Res 34(1) 77-98 (1996), 8A891

Numerical technique for solving unsteady non-Newtonian free surface flows, J Non-Newtonian Fluid Mech 62(1) 9-34 (Jan 1996), 8A902

Report on the IXth International Workshop on Numerical Methods in Non-Newtonian Flows, J Non-Newtonian Fluid Mech 62(1) 99-110 (Jan 1996), 8T903

Algebraic limitations on 2D hydrodynamics simula-tions, J Comput Phys 124(1) 46-54 (Mar 1996), 8A904

Analysis of non-singular solutions of a mixed Navier-Stokes formulation, Comput Methods Appl Mech Eng 129(1-2) 115-131 (Jan 1996), 8A905

Artificial boundaries and flux and pressure conditions for the incompressible Navier-Stokes equations, Int J Numer Methods Fluids 22(5) 325-352 (Mar 1996), 8A906

Comparison of pressure-based and artificial com-pressibility methods for solving 3D steady incom-pressible viscous flows, J Comput Phys 124(1) 1-13 (Mar 1996), 8A907

Computer-aided heuristic analysis of fluid models, Theor Comput Fluid Dyn 8(2) 145-167 (1996), 8A908

Incompressible computational fluid dynamics and the continuity-constraint method for the 3D Navier-Stokes equations, Numer Heat Transfer B 29(2) 137-237 (Mar 1996), 8A909

Normal mode stability analysis of multiblock algo-rithms for the solution of fluid-dynamics equations, Appl Numer Math 19(4) 419-431 (Jan 1996), 8A910

Parallel implicit incompressible flow solver using unstructured meshes, Comput Fluids 25(2) 119-132 (Feb 1996), 8A911

Vortex shedding in segmented solid rocket motors, J Propulsion Power 12(2) 371-376 (Apr 1996), 8A912

Numerical investigation of laminar flows through 90-degree diversions of rectangular cross-section, Comput Fluids 25(2) 95-118 (Feb 1996), 8A952

Second-order accurate implicit scheme for strongly-coupled fluid equations applied to fluid electron turbulence in a magnetized plasma, J Comput Phys 124(1) 71-84 (Mar 1996), 8A995

Flow Visualization VII - Proc of 7th Int Symp on Flow Visualization (Begell House, New York, 1995) 9N15

Petrov-Galerkin formulation for incompressible flow at high Reynolds number, Int J Comput Fluid Dyn 5(3-4) 213-230 (1995), 9T42

Influences of fluidic interfaces on the formation of fine-scale structures by chaotic mixing, J Fluids Eng 118(1) 40-47 (Mar 1996), 9A157

Convergence of velicity blobs method for the Euler equation, Math Methods Appl Sci 19(6) 463-479 (Apr 1996), 9A1061

Numerical issues affecting vortex asymmetries computed with the conical Navier-Stokes equa-tions, Comput Fluids 25(3) 319-334 (Mar 1996), 9A1062

Artificial boundary condition for 2D incompressible viscous flows using the method of lines, Int J Numer Methods Fluids 22(6) 483-493 (Mar 1996), 9A1065

Hybrid spectral-finite volume method for viscous flows, Int J Comput Fluid Dyn 5(1-2) 119-136 (1995), 9A1067

Pressure-correction method for the solution of incompressible viscous flows on unstructured grids, Int J Numer Methods Fluids 22(7) 581-601 (Apr 1996), 9A1071

Rayleigh number scaling in numerical convection, J Fluid Mech 310 139-179 (Mar 1996), 9A1073

Direct numerical simulation of flow past elliptic cylinders, J Comput Phys 124(2) 351-367 (Mar 1996), 9T1078

High-order explicit method for the computation of flow about a circular cylinder, J Comput Phys 125(1) 207-224 (Apr 1996), 9T1079

Adaptive prismatic-tetrahedral grid refinement and redistribution for viscous flows, AIAA J 34(4) 707-716 (Apr 1996), 9A1085

Approximate projection scheme for incompressible flow using spectral elements, Int J Numer Methods Fluids 22(7) 673-688 (Apr 1996), 9A1086

New flux-conserving Newton scheme for the Navier-Stokes equations, Int J Comput Fluid Dyn 5(3-4) 189-212 (1995), 9T1087

Nonlinear Galerkin method and two-step method for the Navier-Stokes equations, Numer Methods PDE 12(3) 283-305 (May 1996), 9A1088

Numerical analysis of incompressible flow over smooth and grooved circular cylinders, Comput Fluids 25(3) 263-281 (Mar 1996), 9A1089

Parallel block-structured multigrid method for the prediction of incompressible flows, Int J Numer Methods Fluids 22(6) 549-565 (Mar 1996), 9A1090

A posteriori error estimators for a two-level FEM for the Navier-Stokes equations, Numer Methods PDE 12(3) 333-346 (May 1996), 9A1091

Segregated solution algorithm for incompressible flows in general co-ordinates, Int J Numer Methods Fluids 22(6) 515-548 (Mar 1996), 9A1092

Spectral methods in polar coordinates for the Stokes problem: Application to computation in unbounded domains, Math Comput 65(214) 507-531 (Apr 1996), 9A1093

Steady relaxation methods for unstructured multigrid Euler and Navier-Stokes solutions, Int J Comput Fluid Dyn 5(3-4) 137-167 (1995), 9A1094

Inviscid dynamics of 2D shear layers, Int J Comput Fluid Dyn 5(1-2) 59-80 (1995), 9A1168

No-slip boundary condition in finite difference approximations, Int J Numer Methods Fluids 22(8) 713-729 (Apr 1996), 10A41

Multigrid and Krylov subspace methods for the discrete Stokes equations, Int J Numer Methods Fluids 22(8) 755-770 (Apr 1996), 10A1068

Implicit surface tension algorithm for Picard solvers of surface-tension-dominated free and moving boundary problems, Int J Numer Methods Fluids 22(9) 851-865 (May 1996), 10A1078

Boundary treatment for the numerical solution of the incompressible Navier-Stokes equations with finite difference methods, J Comput Math 14(2) 135-142 (Apr 1996), 10T1081

ELAFINT: A mixed Eulerian-Lagrangian method for fluid flows with complex and moving boundaries, Int J Numer Methods Fluids 22(8) 691-712 (Apr 1996), 10A1082

Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, Numer Heat Transfer B 29(3) 275-288 (May 1996), 10A1083

Computational Methods for Fluid Dynamics (Springer-Verlag, New York, 1996) 11R39

Effects of implicit preconditioners on solution acceleration schemes in CFD, Int J Numer Methods Fluids 22(10) 1023-1035 (May 1996), 11A873

Method of assessing the effects of artificial dissipation in Navier-Stokes codes, Int J Numer Methods Fluids 22(10) 979-985 (May 1996), 11A879

Numerical study of the blockage effects on viscous flow past a circular cylinder, Int J Numer Methods Fluids 22(11) 1061-1074 (Jun 1996), 11A881

Scalability and performance of data-parallel pressure-based multigrid methods for viscous flows, J Comput Phys 125(2) 338-353 (May 1996), 11T882

Integral equation methods for Stokes flow and isotropic elasticity in the plane, J Comput Phys 125(2) 403-414 (May 1996), 11A885

Essentially compact schemes for unsteady viscous incompressible flows, J Comput Phys 126(1) 122-138 (Jun 1996), 11A890

Numerical procedure for predicting multiple solutions of a spherical Taylor-Couette flow, Int J Numer Methods Fluids 22(11) 1135-1147 (Jun 1996), 11A895

Numerical study of the flow over ellipsoidal objects inside a cylindrical tube, Int J Numer Methods Fluids 22(11) 1075-1087 (Jun 1996), 11A897

Comparative study of time-stepping techniques for the incompressible Navier-Stokes equations: From fully implicit nonlinear schemes to semi-implicit projection methods, Int J Numer Methods Fluids 22(10) 987-1011 (May 1996), 11A901

Development of pressure-based composite multigrid methods for complex fluid flows, Prog Aerospace Sci 32(4) 313-375 (Aug 1996), 11A902

Distributive mass balance correction in single- and multigrid incompressible flow calculation, Int J Comput Fluid Dyn 6(2) 125-135 (1996), 11T903

Efficient method for temporal integration of the Navier-Stokes equations in confined axisymmetric geometries, J Comput Phys 125(2) 454-463 (May 1996), 11A904

Explicit formula for calculation of velocity distribution along thin profiles (curved plates) in cascade, Mec Appl 40(2-3) 161-173 (Jun 1995), 11A905

Incompressible flow solver of arbitrarily moving bodies with rigid surface, JSME Int J Ser B 39(2) 315-325 (May 1996), 11T906

Inflow and outflow boundary conditions for direct numerical simulations, JSME Int J Ser B 39(2) 305-314 (May 1996), 11A907

Multigrid method with unstructured adaptive grids for steady Euler equations, J Comput Appl Math 67(1) 73-93 (Feb 1996), 11A908

Numerical analysis for the effect of surfactants on a circular liquid lens - I, Mec Appl 40(2-3) 201-219 (Jun 1995), 11T909

Sensitivity derivatives for advanced CFD algorithm and viscous modeling parameters via automatic differentiation, J Comput Phys 125(2) 313-324 (May 1996), 11T910

Superposition technique for potential flow around an aerofoil and control of the circulation, Int J Numer Methods Fluids 22(10) 1013-1022 (May 1996), 11A1013

Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, Int J Heat Fluid Flow 17(2) 155-166 (Apr 1996), 11A1070

Computational modeling of 3D endwall flow through a turbine rotor cascade with strong secondary flows, J Turbomachinery 118(2) 250-261 (Apr 1996), 11A1071

Coupling mesh and flow in viscous fluid calculations on unstructured triangular FEs, Int J Comput Fluid Dyn 6(4) 275-290 (1996), 12A13

Convergence of implicit finite difference methods applied to nonlinear mixed systems, SIAM J Numer Anal 33(3) 997-1013 (Jun 1996), 12A40

Fast iterative method to compute the flow around a submerged body, Math Comput 65(215) 1067-1083 (Jul 1996), 12A252

Application of Adomian's approximations to the Navier-Stokes equations in cylindrical coordinates, Appl Math letters 9(4) 109-113 (Jul 1996), 12A1051

Complete pressure correction algorithm for solution of incompressible Navier-Stokes equations on a nonstaggered grid, Numer Heat Transfer B 29(4) 441-458 (Jun 1996), 12A1052

Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part I: Flow field characteristics, Numer Heat Transfer A 29(8) 809-824 (Jun 1996), 12A1053

Data-parallel lower-upper relaxation method for the Navier-Stokes equations, AIAA J 34(7) 1371-1377 (Jul 1996), 12A1054

Domain decomposition algorithm for viscous-inviscid coupling, Adv Eng Software 26(2) 151-159 (1996), 12A1055

Error estimates of the projection methods for the Navier-Stokes equations: Second-order schemes, Math Comput 65(215) 1039-1065 (Jul 1996), 12A1056

Explicit Alternating Direction methods and their applications to problems in fluid mechanics, Adv Eng Software 26(2) 83-99 (1996), 12A1057

Fourier-Chebyshev spectral method for the 2D Navier-Stokes equations, SIAM J Numer Anal 33(3) 1169-1187 (Jun 1996), 12A1058

High-Reynolds number solutions of Navier-Stokes equations using incremental unknowns, Comput Methods Appl Mech Eng 130(3-4) 319-335 (Apr 1996), 12A1059

Local solution adapted Tri-Tree multigrid generator and iterative equation solver for mixed FE formulation of the Navier-Stokes equations, Comput Methods Appl Mech Eng 131(1-2) 109-132 (Apr 1996), 12A1060

Multiblock solution process for the equations of fluid dynamics on a network of transputers, Adv Eng Software 26(2) 133-149 (1996), 12A1061

Optimal order error estimate for an upwind discretization of the Navier-Stokes equations, Numer Methods PDE 12(4) 407-421 (Jul 1996), 12A1062

Parallel multiblock characteristic-based method for 3D incompressible flows, Adv Eng Software 26(2) 111-119 (1996), 12A1063

Three-dimensional finite-volume method for the Navier-Stokes equations with adaptive hybrid grids, Appl Numer Math 20(4) 387-406 (Apr 1996), 12A1064

Weak statement perturbation CFD algorithm with high-order phase accuracy for hyperbolic problems, Comput Methods Appl Mech Eng 131(3-4) 209-232 (May 1996), 12A1065

Long-term dissipativity of time-stepping algorithms for an abstract evolution equation with applications to the incompressible MHD and Navier-Stokes equations, Comput Methods Appl Mech Eng 131(1-2) 41-90 (Apr 1996), 12A1161

354Z. Experimental techniques

Head-on collision of two coaxial vortex rings: Experiment and computation, J Fluid Mech 296 39-71 (Aug 1995), 1A988

Improvement of finite-analytic discretization of incompressible 3D Navier-Stokes equations, Numer Heat Transfer B 28(2) 171-182 (Sep 1995), 1A1012

Generation of a vortex ring with high Reynolds number by an exploding wire in water, J Phys Soc Japan 64(10) 3748-3757 (Oct 1995), 3A913

Experimental study of 3D separation on a large-scale model, AIAA J 33(11) 2107-2113 (Nov 1995), 4A944

Dynamics of experimentally simulated microbursts, AIAA J 33(11) 2128-2136 (Nov 1995), 4A985

LDA measurements of steady streaming flows of Newtonian and viscoelastic fluids, Exp Fluids 20(1) 21-28 (Nov 1995), 5A896

Liquid crystal methods for studying turbulent heat transfer, Int J Heat Fluid Flow 16(5) 365-375 (Oct 1995), 5A1160

Use of side-scan sonar for oceanographic investigations, Acoust Lett 18(10) 177-184 (Apr 1995), 6A917

Three-dimensional particle-tracking velocimetry measurement of turbulence statistics and energy budget in a backward-facing step flow, Int J Heat Fluid Flow 16(6) 477-485 (Dec 1995), 6A1002

Introduction to Engineering Experimentation (Prentice-Hall, Englewood Cliffs NJ, 1996) 7R10

Formation process of a vortex ring by an exploding wire in water, J Phys Soc Japan 65(2) 462-467 (Feb 1996), 8A913

Simultaneous mapping of the velocity and deformation field at a free surface, Exp Fluids 20(5) 358-364 (Mar 1996), 9A1075

Development and structure of a gravity current head, Exp Fluids 20(6) 410-416 (Apr 1996), 10A1074

Multiple-source wind tunnel design for producing turbulent shear flows in a stably stratified fluid, Exp Fluids 21(1) 66-69 (May 1996), 12A1043

356. COMPRESSIBLE FLOW

356A. General theory

Fluid Dynamics for Physicists (Cambridge UP, New York, 1995) 2R32

Instructional Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N42

Kinetic-energy mass, momentum mass, and drift mass in steady irrotational subsonic flows, J Fluid Mech 297 29-36 (Aug 1995), 2A901

Navier-Stokes Equations and Nonlinear Functional Analysis, Second Edition (SIAM, 1995) 3R27

Steady compressible vortex flows: The hollow-core vortex array, J Fluid Mech 301 1-17 (Oct 1995), 4A993

Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with nonhomogeneous boundary conditions, Int J Non-Linear Mech 30(5) 701-709 (Sep 1995), 5A874

Development of equations of state for compressible liquids, J Propulsion Power 12(1) 213-216 (Feb 1995), 6A918

Flow management techniques for base and afterbody drag reduction, Prog Aerospace Sci 32(2-3) 79-129 (1996), 6A954

Modelisation asymptotique en mecanique des fluides newtoniens (Asymptotic Modelization in the Mechanics of Newtonian Fluids) - Mathematiques and Applications Series, Vol 15 (French) (Springer-Verlag, New York, 1994) 7R20

Determinate model of thrust-augmenting ejectors, Theor Comput Fluid Dyn 8(1) 37-55 (1996), 7A1074

Measure-valued solutions of the Euler Equations for ideal compressible polytropic fluids, Math Methods Appl Sci 19(3) 235-252 (Feb 1996), 7A1075

Small perturbations in the medium of variable mass, Mech Res Commun 23(2) 123-130 (Apr 1996), 8A251

Large deviation for Navier-Stokes equations with small stochastic perturbation, Appl Math Comput 76(1) 65-93 (Apr 1996), 8A914

Evolution free boundary problem for equations of motion of viscous compressible barotropic self-gravitating fluid, Stability Appl Anal Continuous Media 3(4) 257-275 (Dec 1993), 9T1101

Steady flows of viscous compressible fluids L^2-approach, Stability Appl Anal Continuous Media 3(3) 181-199 (Sep 1993), 9T1102

Application of the method of Landau and Lifshitz to sonic velocities in homogeneous two-phase mixtures, J Fluids Eng 118(1) 186-188 (Mar 1996), 9A1123

Mechanics of Liquids and Gases, Sixth Augmented Edition (Begell House, New York, 1996) 10N29

Foias statistical solution for stochastic Navier-Stokes equation, Nonlinear Anal 27(1) 97-114 (Jul 1996), 10T59

Approximate calculation of transport coefficients of Earth and Mars atmospheric dissociating gases, J Thermophys Heat Transfer 10(2) 209-216 (Jun 1996), 10A1084

Thermofluids (Chapman and Hall, New York, 1996) 11R41

Nonstandard Methods for Stochastic Fluid Mechanics - Series on Advances in Mathematics for Applied Sciences, Vol 27 (World Sci Pub, River Edge, NJ, 1995) 11N43

Theory of low Mach number compressible flow in a channel, J Fluid Mech 313 131-145 (Apr 1996), 11A203

Global solutions to the cylindrically symmetric rotating motion of isentropic gases, Z Angew Math Phys 47(3) 353-372 (May 1996), 12A1066

356B. Subsonic flow

Classical Mechanics with Maple™ (Springer-Verlag, Berlin, 1995) 2R31

Isentropic flow of an inviscid gas, Appl Math letters 8(1) 43-46 (Jan 1995), 2A900

Kinetic-energy mass, momentum mass, and drift mass in steady irrotational subsonic flows, J Fluid Mech 297 29-36 (Aug 1995), 2A901

Mixing enhancement in supersonic free shear flows, Annu Rev Fluid Mech 27 375-417 (1995), 2A905

Estimates for critical Mach number under isoperimetric constraints, European J Appl Math 6(5) 385-398 (Oct 1995), 4A986

Prediction of compressible subsonic flow through an axisymmetric exhaust valve-port assembly, Proc Inst Mech Eng D 209(D4) 289-295 (1995), 4A987

Nonlinear oscillations of a gas in a tube, Appl Mech Rev 49(3) 137-154 (Mar 1996), 6A202

Solution of steady inviscid subsonic flow by a locally analytic method, Int J Numer Methods Heat & Fluid Flow 6(1) 59-77 (Jan 1996), 6A919

Grid fin aerodynamics for missile applications in subsonic flow, J Spacecraft Rockets 33(1) 38-44 (Feb 1996), 7A1174

Application of the BEM to the study of 2D subsonic lifting flow past smooth profiles, Arch Mech 48(1) 111-128 (1996), 9A104

Subsonic aerodynamics and performance of a smart vortex generator system, J Aircraft 33(2) 393-398 (Apr 1996), 9A1225

Coupled FEM-BEM formulation for acoustic radiation in a subsonic non-uniform flow, J Sound Vib 192(1) 333-347 (Apr 1996), 10A1085

Improving Euler computations at low Mach numbers, Int J Comput Fluid Dyn 6(1) 51-70 (1996), 11T911

Pressure distribution on oscillating bodies in subsonic flow, Mec Appl 39(6) 641-657 (Dec 1994), 11A912

Segregated prediction of 3D compressible subsonic fluid flows using collocated grids, Numer Heat Transfer A 29(8) 757-775 (Jun 1996), 12A1067

Interaction of a supersonic boundary layer with acoustic waves, Thermophys and Aeromech 2(3) 181-189 (1995), 12T1104

356C. Transonic flow

Computations of aerodynamic drag for spinning transonic projectiles using an implicit TVD scheme, Eng Comput 12(6) 529-544 (Sep 1995), 1A1013

Robust linear and nonlinear strategies for solution of the transonic Euler equations, Comput Fluids 24(7) 753-770 (Sep 1995), 2A902

Transonic flow around optimum critical airfoils, SIAM J Appl Math 55(5) 1455-1467 (Oct 1995), 2A903

Vortex sheddings from eight prisms having different cross-sections but a common height in transonic flows, Acta Mech 111(3-4) 151-159 (1995), 2A904

Development of transonic area-rule methodology, J Aircraft 32(5) 1056-1061 (Oct 1995), 2A1033

Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, Acta Mech Sinica 11(1) 15-19 (1995), 3A21

Computation of transonic flows with shock-induced separation using algebraic turbulence models, AIAA J 33(10) 1979-1981 (Oct 1995), 3T914

Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, Acta Mech Sinica 11(3) 200-208 (1995), 3A915

Computed effects of heat transfer on the transonic flow over an aerofoil, AIAA J 33(11) 2120-2127 (Nov 1995), 4A988

Inviscid transonic flow about a cylinder, J Fluid Mech 301 225-250 (Oct 1995), 4A989

Two-dimensional and axisymmetric nozzle flow computations using the Euler equations, J Brazilian Soc Mech Sci 17(2) 147-170 (1995), 4A1046

Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, Mech Solids 30(2) 156-161 (1995), 5A228

Instability proof for some transonic problems with resonant mode crossings, Theor Comput Fluid Dyn 7(6) 457-461 (1995), 5A954

Euler solutions for transonic oscillating cascade flows using dynamic triangular meshes, J Turbomachinery 117(3) 393-400 (Jul 1995), 5A1073

New mixed Van Leer flux splitting for transonic viscous flow, AIAA J 34(1) 190-193 (Jan 1996), 6T920

Preconditioner for steady 2D turbulent flow simulation, Int J Numer Methods Heat & Fluid Flow 6(1) 79-93 (Jan 1996), 6A1001

Experimental and numerical study of transonic turbine cascade flow, AIAA J 34(1) 104-109 (Jan 1996), 6A1026

Efficient iterative methods applied to the solution of transonic flows, J Comput Phys 123(2) 379-393 (Feb 1996), 7T1076

Instability of a rotating shear layer in the transonic regime, J Fluid Mech 306 59-82 (Jan 1996), 7A1077

Shock boundary-layer interaction on transonic airfoils for laminar and turbulent flow, J Aircraft 33(1) 100-108 (Feb 1996), 7A1097

Integrated determination of sensitivity derivatives for an aeroelastic transonic wing, J Aircraft 33(1) 224-231 (Feb 1996), 7A1155

Pressure sensitive paint in transonic wind-tunnel testing of the F-15, J Aircraft 33(1) 109-116 (Feb 1996), 7A1200

Unconditional stable solutions of the Euler equations for 2D and 3D wings in arbitrary motion, Appl Math Mech 16(12) 1209-1220 (Dec 1995), 8A232

Second-order Godunov method on arbitrary grids, J Comput Phys 124(2) 383-395 (Mar 1996), 9T131

Unsteady transonic nozzle flow of dense gases, J Fluid Mech 310 113-137 (Mar 1996), 9A1095

Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, Acta Mech 115(1-4) 161-177 (1996), 9A1107

Pressure-based Euler scheme for transonic internal and external flow simulation, Int J Comput Fluid Dyn 5(3-4) 169-188 (1995), 9T1112

Analysis of the transonic flow past an airfoil in the perforated wall wind tunnel, TsAGI 1(1) 55-62 (1994), 10T1086

Calculation of 3D separated flows within the framework of nonstationary Euler equations, TsAGI 1(2) 46-60 (1994), 10T1087

Development of a technique to calculate the propeller jet effect on transonic flow around a wing, TsAGI 1(3) 63-72 (1994), 10A1088

Total body drag in a viscous heat conducting gas flow, TsAGI 1(3) 51-62 (1994), 10A1089

Transonic equivalence rule involving lift and shocks, AIAA J 34(5) 1080-1083 (May 1996), 10T1201

Navier-Stokes computations on flexible advanced transport wings in transonic regime, J Aircraft 33(3) 576-581 (Jun 1996), 11A1017

Effect of tip clearance on a swept transonic compressor rotor, J Turbomachinery 118(2) 230-239 (Apr 1996), 11A1059
Experimental and computational investigation of the tip clearance flow in a transonic axial compressor rotor, J Turbomachinery 118(2) 218-229 (Apr 1996), 11A1060
Numerical analysis of 3D unsteady hot streak migration and shock interaction in a turbine stage, J Turbomachinery 118(2) 268-277 (Apr 1996), 11A1074
Computation of unsteady 3D transonic nozzle flows using k-ε turbulence closure, AIAA J 34(7) 1331-1340 (Jul 1996), 12A1127

356D. Supersonic flow

Experiments on supersonic combustion ramjet propulsion in a shock tunnel, J Fluid Mech 296 159-183 (Aug 1995), 1A245
Experimental and numerical studies of the aeroacoustics of axisymmetric supersonic inlets, J Sound Vib 184(5) 853-870 (Aug 1995), 1A296
Classical Mechanics with Maple™ (Springer-Verlag, Berlin, 1995) 2R31
Supersonic jet noise, Annu Rev Fluid Mech 27 17-43 (1995), 2A217
Mixing enhancement in supersonic free shear flows, Annu Rev Fluid Mech 27 375-417 (1995), 2A905
Panel method formulation for oscillating airfoils in supersonic flow, AIAA J 33(9) 1659-1666 (Sep 1995), 2A1020
Computational study of large-disturbance oscillations in unsteady supersonic combustion around projectiles, AIAA J 33(10) 1828-1835 (Oct 1995), 3A1219
Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, AIAA J 33(11) 2013-2019 (Nov 1995), 4A990
Construction of the optimal contour of the leading edge of a body in a supersonic flow, J Appl Math Mech 59(3) 395-408 (1995), 4A991
Effect of shock strength on oblique shock-wave and vortex interaction, AIAA J 33(11) 2137-2143 (Nov 1995), 4A992
Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, AIAA J 33(11) 2032-2037 (Nov 1995), 4A1025
Instability in supersonic boundary-layer flow over a compression ramp, J Fluid Mech 300 265-285 (Oct 1995), 4A1057
Numerical investigation of supersonic vortical flow about a missile body, J Spacecraft Rockets 32(5) 765-770 (Oct 1995), 5A902
Aerodynamics of a body immersed in a supersonic wake: A computational study, J Spacecraft Rockets 32(6) 938-943 (Dec 1995), 5A1007
Numerical study of turbulent supersonic isothermal-wall channel flow, J Fluid Mech 305 159-183 (Dec 1995), 6A921
Validation of a Navier-Stokes solution algorithm with experimental values in a supersonic wake, Int J Numer Methods Fluids 22(2) 137-148 (Jan 1996), 6A922
Explicit finite volume spatial marching method for reduced Navier-Stokes equations, Int J Numer Methods Fluids 22(2) 121-135 (Jan 1996), 6A924
Numerical investigation of thermal and chemical nonequilibrium flows past slender blunted cones, J Thermophys Heat Transfer 10(1) 137-147 (Mar 1996), 6A929
Use of drag probe in supersonic flow, AIAA J 34(1) 201-203 (Jan 1996), 6T933
Base-bleed experiments with a cylindrical afterbody in supersonic flow, J Spacecraft Rockets 33(1) 30-37 (Feb 1996), 7A1078
Oblique-shock and expansion-fan interaction: Analytical solution, AIAA J 34(2) 418-421 (Feb 1996), 7T1079
Experimental investigation of supersonic gaseous injection into a supersonic freestream, AIAA J 34(2) 317-323 (Feb 1996), 7A1112
Effect of counterflow on the development of compressible shear layers, J Fluid Mech 308 63-96 (Feb 1996), 8A915
Instantaneous 3D flow visualization of a supersonic mixing layer, Exp Fluids 20(4) 249-256 (Feb 1996), 8A916
Resonant interaction of a linear array of supersonic rectangular jets: An experimental study, J Fluid Mech 309 93-111 (Feb 1996), 8A917
Complete 3D multiparameter mapping of a supersonic ramp fuel injector flowfield, AIAA J 34(3) 455-462 (Mar 1996), 8A959
Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, AIAA J 34(3) 470-477 (Mar 1996), 8A1049
Prediction method for broadband shock-associated noise from supersonic rectangular jets, J Aircraft 33(2) 298-303 (Apr 1996), 9A1096
Pressure fluctuation characteristics in supersonic wind tunnel and their effect on boundary layer transition, TsAGI 1(4) 50-61 (1994), 10T1090
Supersonic flow past pressure vent orifices on satellite launcher vehicles, J Brazilian Soc Mech Sci 18(1) 59-66 (Mar 1996), 10A1091
Numerical Simulation of Viscous Shock Layer Flows - Fluid Mechanics and Its Applications, Vol 33 (Kluwer, MA, 1995) 11R40
Investigation of large-scale structures in supersonic planar base flows, AIAA J 34(6) 1146-1152 (Jun 1996), 11A913
Numerical investigation of shock wave reflections in steady flows, AIAA J 34(6) 1167-1173 (Jun 1996), 11A914
Numerical investigation of supersonic wing-tip vortices, AIAA J 34(6) 1203-1208 (Jun 1996), 11A915
Spatial numerical simulations of linear and weakly nonlinear wave instabilities in supersonic boundary layers, Theor Comput Fluid Dyn 8(3) 219-235 (1996), 11A916
Velocity and turbulence measurements in a supersonic base flow with mass bleed, AIAA J 34(6) 1153-1159 (Jun 1996), 11A917
Supersonic base-flow computation using higher-order closure turbulence models, J Spacecraft Rockets 33(3) 374-380 (Jun 1996), 12A1068
Analysis of unsteady supersonic viscous flows by a shock-fitting technique, AIAA J 34(7) 1428-1434 (Jul 1996), 12A1074
Subharmonic transition to turbulence in a flat-plate boundary layer at Mach number 4.5, J Fluid Mech 317 301-335 (Jun 1996), 12A1102

356E. Hypersonic flow

Augmented Burnett-equation solutions over axisymmetric blunt bodies in hypersonic flow, J Spacecraft Rockets 32(4) 588-595 (Aug 1995), 1A1014
Blunt body rarefied wakes for Earth entry, J Thermophys Heat Transfer 9(3) 464-470 (Sep 1995), 1A1015
Computation of hypersonic flows with finite catalytic walls, J Thermophys Heat Transfer 9(3) 486-493 (Sep 1995), 1A1016
Parallel Monte Carlo simulation of 3D flow over a flat plate, J Thermophys Heat Transfer 9(3) 471-477 (Sep 1995), 1A1017
Prediction of vibrational relaxation in hypersonic expanding flows - Part 1: Model development, J Thermophys Heat Transfer 9(3) 432-437 (Sep 1995), 1A1018
Prediction of vibrational relaxation in hypersonic expanding flows - Part 2: Results, J Thermophys Heat Transfer 9(3) 438-445 (Sep 1995), 1A1019
Predictions of low aspect ratio missile aerodynamics, J Spacecraft Rockets 32(4) 596-600 (Aug 1995), 1A1020
Flow quality of hypersonic wind-tunnel nozzles designed using computational fluid dynamics, J Spacecraft Rockets 32(4) 569-580 (Aug 1995), 1A1153
Gun tunnel investigation of hypersonic free shear layers in planar duct, J Fluid Mech 299 133-152 (Sep 1995), 2A906
Turbulent flow in supersonic and hypersonic nozzles, AIAA J 33(9) 1634-1640 (Sep 1995), 2A1074
Viscous interaction phenomenon in hypersonic wedge flow, AIAA J 33(12) 2293-2298 (Dec 1995), 4A1031
Experimental and computational analysis of shuttle orbiter hypersonic trim anomaly, J Spacecraft Rockets 32(5) 758-764 (Oct 1995), 5A745
Analysis of laminar near-wake hypersonic flows, J Spacecraft Rockets 32(6) 970-980 (Dec 1995), 5A897
Computational inlet-fairing effects and plume characterization on a hypersonic powered model, J Aircraft 32(6) 1240-1245 (Dec 1995), 5A898
Engineering interactive inviscid boundary-layer method for hypersonic flow, J Spacecraft Rockets 32(6) 1081-1083 (Dec 1995), 5T899
Influence of the velocity gradient on the stagnation point heating in hypersonic flow, Shock Waves 5(4) 205-216 (Dec 1995), 5T900
Unsteady characteristics of a hypersonic type IV shock interaction, J Aircraft 32(6) 1286-1293 (Dec 1995), 5A901
Interactions between shock wave and hypersonic laminar boundary layer near convex corner, J Spacecraft Rockets 32(5) 783-790 (Oct 1995), 5A932
Simultaneous luminescence pressure and temperature measurement system for hypersonic wind tunnels, J Spacecraft Rockets 32(5) 791-794 (Oct 1995), 5A1115
Computations axisymmetric flows in hypersonic shock tubes, J Thermophys Heat Transfer 10(1) 169-176 (Mar 1996), 6A923
Explicit finite volume spatial marching method for reduced Navier-Stokes equations, Int J Numer Methods Fluids 22(2) 121-135 (Jan 1996), 6A924
Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, JSME Int J Ser B 39(1) 101-111 (Feb 1996), 7T1080
Fully implicit time accurate method for hypersonic combustion: Application to shock-induced combustion instability, Shock Waves 5(5) 293-303 (Feb 1996), 7A1081
Differential interferometry for studying hypersonic flows, Exp Fluids 20(4) 273-278 (Feb 1996), 8A918
Simulation of multiple shock-shock interference patterns on a cylindrical leading edge, AIAA J 34(4) 764-771 (Apr 1996), 9A298
Boundary-layer transition on swept cylinders at hypersonic speeds, AIAA J 34(4) 649-654 (Apr 1996), 9A1097
Evaluation of Jameson-Schmidt-Turkel dissipation scheme for hypersonic flow computations, J Aircraft 33(2) 286-290 (Apr 1996), 9A1098
Numerical simulation of transient hypersonic flow using the essentially nonoscillatory schemes, AIAA J 34(4) 655-661 (Apr 1996), 9A1099
Strategy for developing air-breathing aerospace planes, J Aircraft 33(2) 377-385 (Apr 1996), 9A1344
Asymptotic theory of 3D hypersonic flow past a wing, TsAGI 1(4) 3-29 (1994), 10A1092
Cone-derived waverider flowfield simulation including turbulence and off-design conditions, J Spacecraft Rockets 33(2) 185-190 (Apr 1996), 10A1093
Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, TsAGI 1(3) 84-95 (1994), 10T1094
Model for predicting hypersonic laminar near-wake flowfields, J Spacecraft Rockets 33(2) 305-307 (Apr 1996), 10T1095
Modeling of chemical reactions in hypersonic rarefied flow with the direct simulation Monte Carlo method, J Fluid Mech 312 149-172 (Apr 1996), 10A1096
Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system, Exp Fluids 20(6) 472-475 (Apr 1996), 10A1108
Performance of a hypersonic twin-nozzle system, AIAA J 34(5) 953-960 (May 1996), 10A1154
Hypersonic air-breathing engine-airframe integration, TsAGI 1(4) 72-82 (1994), 10A1198
Numerical Simulation of Viscous Shock Layer Flows - Fluid Mechanics and Its Applications, Vol 33 (Kluwer, MA, 1995) 11R40
High-enthalpy, hypersonic compression corner flow, AIAA J 34(6) 1130-1137 (Jun 1996), 11A918
Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, J Spacecraft Rockets 33(3) 319-325 (Jun 1996), 12A861
Compressibility and pressure-gradient correction assessment for turbulent hypersonic flows, J Spacecraft Rockets 33(3) 447-449 (Jun 1996), 12T1069
Dual-code solution strategy for hypersonic flows, J Spacecraft Rockets 33(3) 449-451 (Jun 1996), 12T1070
Experimental and numerical study of hypersonic forward-facing cavity flow, J Spacecraft Rockets 33(3) 353-359 (Jun 1996), 12A1071
Hypersonic nozzle - Afterbody experiment: Flowfield surveys, J Spacecraft Rockets 33(3) 333-338 (Jun 1996), 12A1072
Hypersonic nozzle-afterbody experiment: Flow visualization and boundary-layer measurements, J Spacecraft Rockets 33(3) 326-332 (Jun 1996), 12A1073

356F. Unsteady effects, vortices

Vortex Flow in Nature and Technology (Krieger, Melbourne FL, 1995) 1R25
Vortex control over sharp-edged slender bodies, J Aircraft 32(4) 739-745 (Aug 1995), 1A1123
Fluid Vortices - Fluid Mechanics and Its Applications Series, Vol 30 (Kluwer, Netherlands, 1995) 2R33
Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N48
Measurements of supersonic wing tip vortices, AIAA J 33(10) 1761-1768 (Oct 1995), 3A987
Two-dimensional weak shock-vortex interaction in a mixing zone, AIAA J 33(10) 1797-1802 (Oct 1995), 3A1220
Sound generated from the interaction of two inviscid coaxial vortex rings moving in the same direction, J Sound Vib 187(2) 287-310 (Oct 1995), 4A307
Effect of shock strength on oblique shock-wave and vortex interaction, AIAA J 33(11) 2137-2143 (Nov 1995), 4A992
Steady compressible vortex flows: The hollow-core vortex array, J Fluid Mech 301 1-17 (Oct 1995), 4A993
Compressible vortex reconnection, J Fluid Mech 304 47-86 (Dec 1995), 6A925
Enstrophy generation in a shock-dominated turbulence, J Phys Soc Japan 65(2) 450-461 (Feb 1996), 8A209
Unsteady compressible flow due to relative rotation and translation of a viscous fluid on a disk, Arch Appl Mech 66(3) 208-214 (Jan 1996), 8A919
Numerical simulation of transient hypersonic flow using the essentially nonoscillatory schemes, AIAA J 34(4) 655-661 (Apr 1996), 9A1099
Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, J Aircraft 33(2) 399-406 (Apr 1996), 9A1100
Supersonic flow past pressure vent orifices on satellite launcher vehicles, J Brazilian Soc Mech Sci 18(1) 59-66 (Mar 1996), 10A1091
Numerical investigation of supersonic wing-tip vortices, AIAA J 34(6) 1203-1208 (Jun 1996), 11A915
Simplified model and Navier-Stokes calculations for hypersonic air intakes design, J Propulsion Power 12(3) 470-476 (Jun 1996), 11A919
Vortex model to define safe aircraft separation distances, J Aircraft 33(3) 547-553 (Jun 1996), 11A1024
Wake-vortex separation distances when flight-path corridors are constrained, J Aircraft 33(3) 539-546 (Jun 1996), 11A1025
Difficulties in predicting vortex breakdown effects on a rolling delta wing, J Aircraft 33(3) 477-484 (Jun 1996), 11A1033
Analysis of unsteady supersonic viscous flows by a shock-fitting technique, AIAA J 34(7) 1428-1434 (Jul 1996), 12A1074

356G. Viscous effects

Navier-Stokes Equations and Nonlinear Functional Analysis, Second Edition (SIAM, 1995) 3R27
Raleigh's problem for compressible viscous flow, Acta Mech 112(1-4) 29-36 (1995), 3A918
Control-oriented high-frequency turbomachinery modeling: General 1D model development, J Turbomachinery 117(3) 320-335 (Jul 1995), 5A1023
New mixed Van Leer flux splitting for transonic viscous flow, AIAA J 34(1) 190-193 (Jan 1996), 6T920
Evolution free boundary problem for equations of motion of viscous compressible barotropic self-gravitating fluid, Stability Appl Anal Continuous Media 3(4) 257-275 (Dec 1993), 9T1101
Steady flows of viscous compressible fluids L^2-approach, Stability Appl Anal Continuous Media 3(3) 181-199 (Sep 1993), 9T1102
Calculation of 3D BE drag components using wind tunnel data, Boundary Elements Comm 7(1) 9-18 (1996), 11A51

356H. Internal flow problems

Numerical study of the compressible turbulent flow in a laser cavity, Int J Heat Mass Transfer 38(14) 2623-2633 (Sep 1995), 1A1193
Reacting flow simulation for a large-scale ram accelerator, J Propulsion Power 12(1) 61-69 (Feb 1995), 6A1211
Convergence study of an implicit multidomain approximation for the compressible Euler equations, Comput Fluids 25(2) 181-196 (Feb 1996), 8A922
Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, TsAGI 1(3) 84-95 (1994), 10T1094
Simple waves in saturated porous media - I: The isothermal case, JSME Int J Ser B 39(2) 294-298 (May 1996), 11A920

356I. Flow around bodies

Particle drag coefficient in solid rocket plumes, J Thermophys Heat Transfer 9(3) 567-569 (Sep 1995), 1T1002
Transonic flow around optimum critical airfoils, SIAM J Appl Math 55(5) 1455-1467 (Oct 1995), 2A903
Vortex sheddings from eight prisms having different cross-sections but a common height in transonic flows, Acta Mech 111(3-4) 151-159 (1995), 2A904
Momentum, pressure, and energy in the Treffta-plane, J Aircraft 32(5) 943-954 (Oct 1995), 2A907
Non-equilibrium dissociating flow over spheres, J Fluid Mech 299 389-405 (Sep 1995), 2A908
Viscous flow past a nacelle in proximity to a flat plate, J Aircraft 32(5) 1140-1142 (Oct 1995), 2T909
Visualization of choked supersonic flow-through engine nacelles, J Aircraft 32(5) 1144-1146 (Oct 1995), 2T910
Challenges in high-alpha vehicle dynamics, Prog Aerospace Sci 31(4) 291-334 (1995), 2A950
Interaction between sound and circulatory fluid motion as a problem in matched expansions, IMA J Appl Math 55(2) 163-186 (1995), 3A248
Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, Acta Mech Sinica 11(3) 200-208 (1995), 3A915
Drag measurements at Mach 5 using a stress wave force balance, Exp Fluids 19(5) 336-341 (Sep 1995), 3A916
Inviscid transonic flow about a cylinder, J Fluid Mech 301 225-250 (Oct 1995), 4A989
Numerical investigation of supersonic vortical flow about a missile body, J Spacecraft Rockets 32(5) 765-770 (Oct 1995), 5A902
Estimates of the pressures, temperatures and drag coefficient in the supersonic flow of a medium around

blunt bodies, J Appl Math Mech 59(4) 635-643 (1995), 7A1082
Modern developments in flow control, Appl Mech Rev 49(7) 365-379 (Jul 1996), 8A899
Spectral solution of the viscous blunt-body problem 2: Multidomain approximation, AIAA J 34(3) 560-564 (Mar 1996), 8A920
Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, AIAA J 34(3) 470-477 (Mar 1996), 8A1049
Boundary-layer transition on sweept cylinders at hypersonic speeds, AIAA J 34(4) 649-654 (Apr 1996), 9A1097
Comparison between strictly conical and paraboloidal flow fields in the presence of angular momentum, Arch Mech 47(6) 1073-1088 (1995), 9A1103
Compressible dusty-gas boundary-layer flow over a flat surface, J Fluids Eng 118(1) 179-185 (Mar 1996), 9A1104
Systematic study of the correlation between geometrical disturbances and flow asymmetries, AIAA J 34(4) 772-777 (Apr 1996), 9A1105
Supersonic separation with obstructions, AIAA J 34(4) 849-851 (Apr 1996), 9T1137
Total body drag in a viscous heat conducting gas flow, TsAGI 1(3) 51-62 (1994), 10A1089
Theoretical and experimental investigations of a supersonic low-density flow over a sphere with surface condensation and evaporation, TsAGI 1(3) 115-121 (1994), 10T1097
Gas-thermodynamics of a two-phase jet impinging normally on a flat surface, TsAGI 1(3) 96-106 (1994), 10A1162
Spatial numerical simulations of linear and weakly nonlinear wave instabilities in supersonic boundary layers, Theor Comput Fluid Dyn 8(3) 219-235 (1996), 11A916
Velocity and turbulence measurements in a supersonic base flow with mass bleed, AIAA J 34(6) 1153-1159 (Jun 1996), 11A917
Asymptotic analysis on the extinction of diffusion flames in supersonic stagnation-point flow, JSME Int J Ser B 39(2) 440-445 (May 1996), 11A1288
Topological interpretation of the surface flow visualization of conical viscous-inviscid interactions, J Fluid Mech 316 115-137 (Jun 1996), 12A1107

356K. Nonequilibrium and chemical effects

Atomic species radiation from air modeled with direct simulation Monte Carlo method, J Thermophys Heat Transfer 9(3) 456-463 (Sep 1995), 1A1021
Simulation of chemically reacting flowfields around a 70-deg spherically blunted cone, J Spacecraft Rockets 32(4) 581-587 (Aug 1995), 1A1022
Vibrational nonequilibrium modeling using direct simulation - Part 1: Continuous internal energy, J Thermophys Heat Transfer 9(3) 446-455 (Sep 1995), 1A1023
Approximate boundary conditions for the flow of a mixture of reacting gases, Acta Mech 111(3-4) 161-170 (1995), 2A911
Weak discontinuities in a chemically reacting atmosphere, Arch Appl Mech 65(8) 529-536 (Oct 1995), 3A917
Detailed chemistry modeling of laminar diffusion flames on parallel computers, Int J Supercomput Appl High Perform Comput 9(3) 167-186 (1 1995), 3A1238
Dissociation rate constants in nonequilibrium flows, Mech Res Commun 22(6) 599-613 (Dec 1995), 4T994
Shock-tube analysis of argon influence in titan radiative environment, J Thermophys Heat Transfer 10(1) 162-168 (Mar 1996), 6A926
Thermodynamic charts for nonequilibrium plasma flow in a supersonic nozzle, J Thermophys Heat Transfer 10(1) 155-161 (Mar 1996), 6A927
Modeling of chemical reactions in hypersonic rarefied flow with the direct simulation Monte Carlo method, J Fluid Mech 312 149-172 (Apr 1996), 10A1096
Kinetics of nitric oxide formation behind shock waves, J Thermophys Heat Transfer 10(2) 193-199 (Jun 1996), 10A1098
Two- and three-dimensional analysis of hypersonic nonequilibrium low-density flows, J Thermophys Heat Transfer 10(2) 267-276 (Jun 1996), 10A1099
Viscous shock-layer study of thermochemical nonequilibrium, J Thermophys Heat Transfer 10(2) 257-266 (Jun 1996), 10A1100
Numerical simulation of nonequilibrium condensation in a hypersonic wind tunnel, J Thermophys Heat Transfer 10(2) 277-283 (Jun 1996), 10A1279
Examination of OH ultraviolet radiation from shock-heated air, J Thermophys Heat Transfer 10(2) 200-208 (Jun 1996), 10A1306

356L. Thermal effects

Characterization of a nitrogen flow within a plasma wind tunnel, J Thermophys Heat Transfer 9(3) 422-431 (Sep 1995), 1A1024
Study of transpiration cooling over a flat plate at hypersonic Mach numbers, J Thermophys Heat Transfer 9(3) 552-555 (Sep 1995), 1T1025
Engineering Thermodynamics (Prentice-Hall, Englewood Cliffs NJ, 1996) 2R51
Raleigh's problem for compressible viscous flow, Acta Mech 112(1-4) 29-36 (1995), 3A918
Nose cavity effects on blunt body pressure and temperature at Mach 5, J Thermophys Heat Transfer 9(4) 612-619 (Dec 1995), 3A923
Nonequilibrium boundary-layer effects on the aerodynamic heating of hypersonic waverider vehicles, J Thermophys Heat Transfer 9(4) 595-604 (Dec 1995), 3A1064
Viscous normal shock solutions including chemical, thermal, and radiative nonequilibrium, J Thermophys Heat Transfer 9(4) 577-585 (Dec 1995), 3A1137
Computed effects of heat transfer on the transonic flow over an aerofoil, AIAA J 33(11) 2120-2127 (Nov 1995), 4A988
Strong converging shock waves in a radiating gas, Z Angew Math Mech 75(11) 847-859 (1995), 5A215
Influence of the velocity gradient on the stagnation point heating in hypersonic flow, Shock Waves 5(4) 205-216 (Dec 1995), 5T900
Shock-tube analysis of argon influence in titan radiative environment, J Thermophys Heat Transfer 10(1) 162-168 (Mar 1996), 6A926
Acoustic saturation of the critical speeding up, Physica D 89(3-4) 381-394 (Jan 1996), 6A928
Numerical investigation of thermal and chemical nonequilibrium flows past slender blunted cones, J Thermophys Heat Transfer 10(1) 137-147 (Mar 1996), 6A929
Compressible magnetoconvection in 3D: Planforms and nonlinear behavior, J Fluid Mech 305 281-305 (Dec 1995), 6A1003
Unsteady transonic nozzle flow of dense gases, J Fluid Mech 310 113-137 (Mar 1996), 9A1095
Conservation laws in free boundary problems for viscous compressible heat-conducting capillary fluids, Bull Polish Acad Sci Tech Sci 43(4) 423-444 (1995), 9A1106
Approximate calculation of transport coefficients of Earth and Mars atmospheric dissociating gases, J Thermophys Heat Transfer 10(2) 209-216 (Jun 1996), 10A1084
Total body drag in a viscous heat conducting gas flow, TsAGI 1(3) 51-62 (1994), 10A1089
Effects of freestream nonequilibrium on convective heat transfer to a blunt body, J Thermophys Heat Transfer 10(2) 234-241 (Jun 1996), 10A1101
Maximum entropy analysis of chemical reaction energy dependence, J Thermophys Heat Transfer 10(2) 217-223 (Jun 1996), 10A1102
Ekman pumping in compact astrophysical bodies, J Fluid Mech 312 327-340 (Apr 1996), 10A1104
Navier-Stokes computations of heat transfer for high-speed flows, Int J Comput Fluid Dyn 6(1) 37-49 (1996), 11A921

356M. Rotating fluids or surfaces

Rotation of a cylinder in a casing at zero reynolds number, J Appl Mech 62(3) 662-666 (Sep 1995), 5A884
Unsteady viscous flow between eccentric rotating disks, Int J Non-Linear Mech 30(5) 711-717 (Sep 1995), 5A885
Accuracy of a propeller model in inviscid flow, J Aircraft 32(6) 1312-1321 (Dec 1995), 5A1067
Rotor free-wake modeling using a pseudoimplicit relaxation algorithm, J Aircraft 32(6) 1276-1285 (Dec 1995), 5A1069
Unified variable-domain variational theory of hybrid problems for compressible S_2-flow in mixed-flow turbomachinery, Int J Turbo Jet Engines 12(3) 213-222 (1995), 6A1032
Instability of a rotating shear layer in the transonic regime, J Fluid Mech 306 59-82 (Jan 1996), 7A1077
Unsteady compressible flow due to relative rotation and translation of a viscous fluid on a disk, Arch Appl Mech 66(3) 208-214 (Jan 1996), 8A919
Compressible potential flow around a helicopter rotor in arbitrary motion, Comput Mech 17(5) 318-325 (Mar 1996), 10A1103
Ekman pumping in compact astrophysical bodies, J Fluid Mech 312 327-340 (Apr 1996), 10A1104
Global solutions to the cylindrically symmetric rotating motion of isentropic gases, Z Angew Math Phys 47(3) 353-372 (May 1996), 12A1066
Wall and vortex-ring interactions, Appl Mech Rev 49(10) 447-461 (Oct 1996), 12A1111

356R. Free surface flow

Extension of the volume-of-fluid method for analysis of free surface viscous flow in an ideal gas, Int J Numer Methods Fluids 21(12) 1153-1170 (Dec 1995), 5A903

356Y. Computational techniques

Parallel Monte Carlo simulation of 3D flow over a flat plate, J Thermophys Heat Transfer 9(3) 471-477 (Sep 1995), 1A1017
Drag prediction at subsonic and transonic speeds using Euler methods, J Aircraft 32(4) 839-845 (Aug 1995), 1A1026
High-order streamline Godunov scheme for steady supersonic flow computation, Comput Methods Appl Mech Eng 124(4) 283-302 (Aug 1995), 1A1027
Boundary Element Applications in Fluid Mechanics (Comput Mech, Billerica MA, 1995) 2R30
Classical Mechanics with Maple™ (Springer-Verlag, Berlin, 1995) 2R31
Pressure-based control-volume FEM for flow at all speeds, AIAA J 33(9) 1611-1618 (Sep 1995), 2A898
Unstructured grid generation using iterative point insertion and local reconnection, AIAA J 33(9) 1619-1625 (Sep 1995), 2A899
Robust linear and nonlinear strategies for solution of the transonic Euler equations, Comput Fluids 24(7) 753-770 (Sep 1995), 2A902
Semi-implicit extension of a Godunov-type scheme based on low Mach number asymptotics - I: 1D flow, J Comput Phys 121(2) 213-237 (Oct 1995), 2T912
Simulations of unsteady compressible fluid motion by an interactive cored particle method, SIAM J Appl Math 55(5) 1204-1226 (Oct 1995), 2A913
Computational aeroacoustics: Issues and methods, AIAA J 33(10) 1788-1796 (Oct 1995), 3A293
Advance in overset grid schemes: From Chimera to DRAGON grids, AIAA J 33(10) 1809-1815 (Oct 1995), 3A919
Coarse grid correction scheme for implicit multiblock Euler calculations, AIAA J 33(10) 1816-1821 (Oct 1995), 3A920
Multigrid acceleration of an upwind Euler solver on unstructured meshes, AIAA J 33(10) 1822-1827 (Oct 1995), 3A921
Perspective on computational fluid dynamics validation, AIAA J 33(10) 1778-1787 (Oct 1995), 3A922
Detailed chemistry modeling of laminar diffusion flames on parallel computers, Int J Supercomput Appl High Perform Comput 9(3) 167-186 (1 1995), 3A1238
Comparison of high-resolution schemes applied to flows containing strong shocks, AIAA J 33(11) 2087-2091 (Nov 1995), 4A48
Error estimator and adaptive moving grids for finite volumes schemes, AIAA J 33(11) 2058-2065 (Nov 1995), 4A61
Multigrid approach to overset grid communication, AIAA J 33(12) 2305-2308 (Dec 1995), 4A63
Conjugate gradient squared algorithm for panel methods, AIAA J 33(12) 2420-2422 (Dec 1995), 4T995
Extended Lagrangian particle-in-cell (ELPIC) code for inhomogeneous compressible flows, J Sci Comput 10(2) 191-231 (Jun 1995), 4A996
Least-squares FEM for low-Mach-number compressible viscous flows, Int J Numer Methods Eng 38(21) 3591-3610 (Nov 1995), 4A997
Preconditioning applied to variable and constant density flows, AIAA J 33(11) 2050-2057 (Nov 1995), 4A998
Spectral method for the fluid flow with low Mach number on the spherical surface, SIAM J Numer Anal 32(6) 1764-1777 (Dec 1995), 4A999
Fast generation of low-discrepancy sequences, J Comput Appl Math 61(1) 29-41 (Jul 1995), 4A1000
Nonreflecting boundary conditions for jet flow copmutations, AIAA J 33(12) 2264-2270 (Dec 1995), 4A1053
Euler-based inverse method for turbomachine blades - Part 1: Two-dimensional cascades, AIAA J 33(12) 2309-2315 (Dec 1995), 4A1114
Extension of the volume-of-fluid method for analysis of free surface viscous flow in an ideal gas, Int J Numer Methods Fluids 21(12) 1153-1170 (Dec 1995), 5A903
Assessment of some iterative methods for non-symmetric linear systems arising in computational fluid dynamics, Int J Numer Methods Fluids 21(12) 1171-1200 (Dec 1995), 5A904
Conservative multiblock Navier-Stokes solver for arbitrarily deforming geometries, J Aircraft 32(6) 1342-1350 (Dec 1995), 5A905
Unified construction of FE and finite volume discretizations for compressible flows, Int J Numer Methods Eng 39(1) 1-32 (Jan 1996), 5A906
Asymptotic analysis of mixing loss, J Turbomachinery 117(3) 367-374 (Jul 1995), 5A1071
Reduced order model of unsteady flows in turbomachinery, J Turbomachinery 117(3) 375-383 (Jul 1995), 5A1075
Wave propagation in catalytic converters: Formulation of the problem and FE solution scheme, J Sound Vib 188(5) 635-657 (Dec 1995), 6A204
Unified time-marching procedure for compressible and incompressible flows, J Hydrodyn 7(4) 13-21 (1995), 6A915
New mixed Van Leer flux splitting for transonic viscous flow, AIAA J 34(1) 190-193 (Jan 1996), 6T920
Validation of a Navier-Stokes solution algorithm with experimental values in a supersonic wake, Int J Numer Methods Fluids 22(2) 137-148 (Jan 1996), 6A922
Computations axisymmetric flows in hypersonic shock tubes, J Thermophys Heat Transfer 10(1) 169-176 (Mar 1996), 6A923
Explicit finite volume spatial marching method for reduced Navier-Stokes equations, Int J Numer Methods Fluids 22(2) 121-135 (Jan 1996), 6A924
Compressible vortex reconnection, J Fluid Mech 304 47-86 (Dec 1995), 6A925
Accuracy analysis of central schemes with artificial dissipation and upwind flux-difference TVD schemes for Navier-Stokes equations, Int J Numer Methods Heat & Fluid Flow 5(10) 877-888 (Dec 1995), 6A930
Analytical integration and a numerical method for 1D compressible flow with diffusive transport, Comput Fluids 25(1) 1-8 (Jan 1996), 6A931
Numerical simulations of a 3D nozzle, from inviscid to turbulent flows, Int J Numer Methods Heat & Fluid Flow 5(10) 889-905 (Dec 1995), 6A932
Numerical Methods for Fluid Dynamics 5 (Oxford UP, New York, 1995) 7N25
Hybrid prismatic-tetrahedral grid generation for viscous flows around complex geometries, AIAA J 34(2) 291-298 (Feb 1996), 7A29
Three-dimensional unstructured adaptive multigrid scheme for the Navier-Stokes equations, AIAA J 34(2) 281-290 (Feb 1996), 7A32
Three-dimensional computational analysis of complex launch vehicle configurations, J Spacecraft Rockets 33(1) 49-53 (Feb 1996), 7A991
Efficient iterative methods applied to the solution of transonic flows, J Comput Phys 123(2) 379-393 (Feb 1996), 7T1076
Code validation for high-speed flow simulation over satellite launch vehicle, J Spacecraft Rockets 33(1) 15-21 (Feb 1996), 7A1083
Modeling and numerical simulation of gas flow networks, Numer Math 72(3) 349-366 (Jan 1996), 7T1084
Spike-nosed projectiles with vortex rings: Steady and nonsteady flow simulations, J Spacecraft Rockets 33(1) 8-14 (Feb 1996), 7A1085
Grid-resolved analysis of base flowfield for four-engine clustered nozzle configuration, J Spacecraft Rockets 33(1) 22-29 (Feb 1996), 7A1104
Spectral solution of the viscous blunt-body problem 2: Multidomain approximation, AIAA J 34(3) 560-564 (Mar 1996), 8A920
Adaptive Petrov-Galerkin formulation for the compressible Euler and Navier-Stokes equations, Comput Methods Appl Mech Eng 129(1-2) 157-176 (Jan 1996), 8A921
Convergence study of an implicit multidomain approximation for the compressible Euler equations, Comput Fluids 25(2) 181-196 (Feb 1996), 8A922
Implicit time-stepping methods for the Navier-Stokes equations, AIAA J 34(3) 555-559 (Mar 1996), 8A923
Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, AIAA J 34(3) 470-477 (Mar 1996), 8A1049
Flow Visualization VII - Proc of 7th Int Symp on Flow Visualization (Begell House, New York, 1995) 9N15
Application of the BEM to the study of 2D subsonic lifting flow past smooth profiles, Arch Mech 48(1) 111-128 (1996), 9A104
Analysis and design of numerical schemes for gas dynamics - 2: Artificial diffusion and discrete shock structure, Int J Comput Fluid Dyn 5(1-2) 1-38 (1995), 9T301
Peristaltic transport of a viscoelastic fluid: A long wavelength approximation, Arch Mech 47(6) 1157-1167 (1995), 9A303
Steady relaxation methods for unstructured multigrid Euler and Navier-Stokes solutions, Int J Comput Fluid Dyn 5(3-4) 137-167 (1995), 9A1094
Numerical simulation of transient hypersonic flow using the essentially nonoscillatory schemes, AIAA J 34(4) 655-661 (Apr 1996), 9A1099
Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, Acta Mech 115(1-4) 161-177 (1996), 9A1107
Conservative staggered-grid Chebyshev multidomain method for compressible flows, J Comput Phys 125(1) 244-261 (Apr 1996), 9T1108
External flow computations using global boundary conditions, AIAA J 34(4) 700-706 (Apr 1996), 9A1109
Gaseous flow originated by a gunshot - I:, Int J Comput Fluid Dyn 5(3-4) 245-261 (1995), 9T1110
Navier-Stokes simulations of jet flows on a network of workstations, AIAA J 34(4) 744-749 (Apr 1996), 9A1111
Pressure-based Euler scheme for transonic internal and external flow simulation, Int J Comput Fluid Dyn 5(3-4) 169-188 (1995), 9T1112

Transonic wing flow computations using the field-panel method with a shock-fitting technique, Eng Anal Boundary Elements 16(4) 363-368 (1995), 9A1113
Numerical Methods in Engineering Simulation - Proc of 3rd Int Congress on Numer Methods in Eng and Appl Sci (Cimenics '96), Merida, Venezuela, March 1996 (Comput Mech, Billerica MA, 1996) 10N30
Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, Numer Heat Transfer B 29(3) 275-288 (May 1996), 10A1083
Computation of compressible flow past slender wing-body using full-potential equation, Chinese J Aeronaut 9(1) 1-5 (Feb 1996), 10T1105
Finite element method for the compressible Stokes equations, SIAM J Numer Anal 33(2) 780-788 (Apr 1996), 10A1106
Computational Methods for Fluid Dynamics (Springer-Verlag, New York, 1996) 11R39
Numerical Simulation of Viscous Shock Layer Flows - Fluid Mechanics and Its Applications, Vol 33 (Kluwer, MA, 1995) 11R40
Comparison of numerical and analytical Jacobians, AIAA J 34(6) 1125-1129 (Jun 1996), 11A43
Rotating dissipation for accurate shock capture, AIAA J 34(6) 1289-1291 (Jun 1996), 11T205
Development of pressure-based composite multigrid methods for complex fluid flows, Prog Aerospace Sci 32(4) 313-375 (Aug 1996), 11A902
Inflow and outflow boundary conditions for direct numerical simulations, JSME Int J Ser B 39(2) 305-314 (May 1996), 11A907
Improving Euler computations at low Mach numbers, Int J Comput Fluid Dyn 6(1) 51-70 (1996), 11T911
Navier-Stokes computations of heat transfer for high-speed flows, Int J Comput Fluid Dyn 6(1) 37-49 (1996), 11A921
Entropy controlled adaptive FE simulations for compressible gas flow, J Comput Phys 126(1) 181-201 (Jun 1996), 11T922
Parallel computational fluid dynamics design on network-based computer, J Aircraft 33(3) 561-566 (Jun 1996), 11A923
Positively conservative high-resolution convection schemes for unstructured elements, Int J Numer Methods Eng 39(11) 1821-1838 (Jun 1996), 11A924
Solution adaptive direct variational grids for fluid flow calculations, J Comput Appl Math 67(2) 343-370 (Mar 1996), 11A925
Three-dimensional plasma-neutral gas-fluid code, J Comput Phys 125(2) 513-525 (May 1996), 11A929
Primitive variable implicit approach for compressible chemical vapor deposition, AIAA J 34(6) 1287-1289 (Jun 1996), 11T965
Stream function coordinate Euler formulation and shocktube application, Appl Math Model 20(6) 421-428 (Jun 1996), 11A1086
Segregated prediction of 3D compressible subsonic fluid flows using collocated grids, Numer Heat Transfer A 29(8) 757-775 (Jun 1996), 12A1067
Analysis of unsteady supersonic viscous flows by a shock-fitting technique, AIAA J 34(7) 1428-1434 (Jul 1996), 12A1074
Effects of initial conditions on spatially evolving compressible shear layer simulations, Int J Comput Fluid Dyn 6(4) 307-319 (1996), 12T1075
Implicit computation of 3D compressible Navier-Stokes equations using k-ε closure, AIAA J 34(7) 1321-1330 (Jul 1996), 12A1076
Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, Thermophys and Aeromech 2(3) 171-180 (1995), 12A1077
Performance of 3D compressible Navier-Stokes codes at low mach numbers, AIAA J 34(7) 1356-1362 (Jul 1996), 12A1078
Wave propagation by the passage of two high-speed trains in a tunnel, Forschung Ingenieur 62(5) 105-115 (May 1996), 12A1079
Computation of supersonic flow over spatial configurations with sharp leading edges, Thermophys and Aeromech 2(3) 227-234 (1995), 12T1175

356Z. Experimental techniques

Efficient optical pressure measurement in compressible flows: Laser-induced iodine fluorescence, Exp Fluids 19(3) 150-158 (Jul 1995), 1A1028
Reinvestigation of hot-wire anemometry applicable to subsonic compressible flows using fluctuation diagrams, J Fluids Eng 117(2) 263-269 (Jun 1995), 1A1029
Gun tunnel investigation of hypersonic free shear layers in planar duct, J Fluid Mech 299 133-152 (Sep 1995), 2A906
Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, J Propulsion Power 11(5) 1083-1086 (Oct 1995), 2A1189
Drag measurements at Mach 5 using a stress wave force balance, Exp Fluids 19(5) 336-341 (Sep 1995), 3A916
Nose cavity effects on blunt body pressure and temperature at Mach 5, J Thermophys Heat Transfer 9(4) 612-619 (Dec 1995), 3A923
Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, J Thermophys Heat Transfer 9(4) 605-611 (Dec 1995), 3A1076
In-flight imaging of transverse gas jets injected into compressible crossflows, AIAA J 33(12) 2259-2263 (Dec 1995), 4A1051
Waverider design for generalized shock geometries, J Spacecraft Rockets 32(6) 957-963 (Dec 1995), 5A907
Use of drag probe in supersonic flow, AIAA J 34(1) 201-203 (Jan 1996), 6T933
Base-bleed experiments with a cylindrical afterbody in supersonic flow, J Spacecraft Rockets 33(1) 30-37 (Feb 1996), 7A1078
Instantaneous 3D flow visualization of a supersonic mixing layer, Exp Fluids 20(4) 249-256 (Feb 1996), 8A916
Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, AIAA J 34(3) 434-441 (Mar 1996), 8A1047
Rarefied neutral gases with velocities of 8-15 KM-S, TsAGI 1(3) 107-114 (1994), 10A1107
Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system, Exp Fluids 20(6) 472-475 (Apr 1996), 10A1108
Measurement of catalytic recombination coefficients on quartz using laser-induced fluorescence, J Thermophys Heat Transfer 10(2) 224-233 (Jun 1996), 10A1211
Experimental investigation of side-jet steering for supersonic and hypersonic missiles, J Spacecraft Rockets 33(3) 346-352 (Jun 1996), 12A864
Experimental vertification of interference-free testing concept for vehicles with propulsive jets, J Spacecraft Rockets 33(3) 339-345 (Jun 1996), 12A865
Experimental and numerical study of hypersonic forward-facing cavity flow, J Spacecraft Rockets 33(3) 353-359 (Jun 1996), 12A1071
Development of an experimentally flexible facility for mixing-combustion interactions in supersonic flow, J Energy Resources Tech 118(2) 152-158 (Jun 1996), 12A1325

358. RAREFIED FLOW

Atmospheric ice waves, Annu Rev Fluid Mech 28 429-476 (1996), 6A934
Physical meandings of $A/Q_p 0$ and $\sigma/Q_p 0$ in molecular gas film lubrication problems, J Trib 118(2) 364-369 (Apr 1996), 10T1109

358B. Kinetic theory

Flow induced around a sphere with a non-uniform surface temperature in a rarefied gas, with application to the drag and thermal force problems of a spherical particle with an arbitrary thermal conductivity, Eur J Mech B 14(4) 487-518 (1995), 1T1030
Continuum deductions from molecular hydrodynamics, Annu Rev Fluid Mech 27 257-292 (1995), 2A914
Nonlinear Boltzmann equation solutions and applications to fluid dynamics, Appl Mech Rev 48(12) 777-794 (Dec 1995), 2A915
Nonlinear kinetic equations with dissipative collisions, Appl Math letters 8(5) 47-52 (Sep 1995), 2A916
Weak solutions of the Boltzmann equation: Equation and energy conservation, Appl Math letters 8(2) 53-59 (Mar 1995), 2A917
Can the Zaremba relaxation model be considered correct, Arch Thermodyn 15(1-4) 111-124 (1994), 3A924
Molecular Gas Dynamics and the Direct Simulation of Gas Flows - Oxford Engineering Science Series, Vol 42 (Oxford UP, New York, 1994) 4R25
Rarefied Gas Dynamics 19, Vol 1 and 2 (Oxford UP, New York, 1995) 5N26
Moving mesh algorithm for 3D regional groundwater flow with water table and seepage face, Adv Water Resources 19(2) 83-95 (1996), 5T908
Stability of computational algorithms used in molecular dynamics simulations, J Fluids Eng 117(3) 531-534 (Sep 1995), 5T909
Numerical simulation of the stationary 1D Boltzmann equation by particle methods, Eur J Mech B 15(1) 103-118 (1996), 8T924
Four-velocity model for van der Waals fluids, Arch Mech 47(6) 1089-1111 (1995), 9A1114
Kinetic theory for bubbly flow - I: Collisionless case, SIAM J Appl Math 56(2) 327-357 (Apr 1996), 9A1115
Kinetic theory for bubbly flow - II: Fluid dynamic limit, SIAM J Appl Math 56(2) 358-371 (Apr 1996), 9A1116
Domain decomposition for kinetic problems with non-equilibrium states, Eur J Mech B 15(2) 203-216 (1996), 10T1110
Exact and asymptotic stationary solutions of the semicontinuous Boltzmann equation, Appl Math letters 9(3) 47-52 (May 1996), 10A1111
Numerical analysis of the shear and thermal creep flows of a rarefied gas over the plane wall of a Maxwell-type boundary on the basis of the linearized Boltzmann equation for hard-sphere molecules, Eur J Mech B 15(2) 175-201 (1996), 10T1112
Non-continuum lubrication flows between particles colliding in a gas, J Fluid Mech 313 283-308 (Apr 1996), 11A926

358C. Transition (incl slip)

Limnology, a concept review, Ingenieria Hidraul Mex 11(1) 77-84 (Apr 1996), 10T1113

358D. Free molecular flow

Continuum deductions from molecular hydrodynamics, Annu Rev Fluid Mech 27 257-292 (1995), 2A914
Particle method for a self-gravitating fluid: A convergence result, Math Methods Appl Sci 18(13) 1083-1094 (Oct 1995), 3A875
Transient response solution applying ADI scheme to Boltzmann flow-modified Reynolds equation averaged with respect to surface roughness, J Trib 117(3) 430-436 (Jul 1995), 5T1086
Non-continuum lubrication flows between particles colliding in a gas, J Fluid Mech 313 283-308 (Apr 1996), 11A926

358E. Gas surface interaction

Flow induced around a sphere with a non-uniform surface temperature in a rarefied gas, with application to the drag and thermal force problems of a spherical particle with an arbitrary thermal conductivity, Eur J Mech B 14(4) 487-518 (1995), 1T1030
Heat conduction through a rarefied gas between two rotating cylinders at small temperature difference, Z Angew Math Phys 46(5) 680-692 (Sep 1995), 2A918
Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, J Spacecraft Rockets 32(5) 878-884 (Oct 1995), 5A249
Free molecule aerodynamic investigation using multiple satellite analysis, Planet Space Sci 44(2) 171-180 (Feb 1996), 8A925
Exact and asymptotic stationary solutions of the semicontinuous Boltzmann equation, Appl Math letters 9(3) 47-52 (May 1996), 10A1111
Vehicle glow measurements on space transportation system flight 62, J Spacecraft Rockets 33(2) 240-249 (Apr 1996), 10A1114
Asymptotic analysis and effect of reaction order on a reversible gas-solid system fast reaction, J Eng Math 30(3) 365-386 (May 1996), 12A1080

358F. Flow in tubes and ducts (Knudsen flow)

Monte Carlo computation of rarefied supersonic flow into a pitot probe, AIAA J 34(1) 83-88 (Jan 1996), 6A935
Theory of embedded shock formation in rarefaction waves by homogeneous condensation, Eur J Mech B 15(1) 81-102 (1996), 8A212
Flow induced by temperature gradient along wall in rarefied gas container, JSME Int J Ser B 39(2) 376-380 (May 1996), 11A927

358G. Multicomponents (gas mixtures)

Simple description of some inertia effects in the behavior of heavy particles in a turbulent gas flow, Int J Non-Linear Mech 31(3) 387-403 (May 1996), 11A928

358Y. Computational techniques

Approach for tension instability in smoothed particle hydrodynamics, Comput Struct 57(4) 573-580 (Nov 1995), 1A1031
Nonlinear Boltzmann equation solutions and applications to fluid dynamics, Appl Mech Rev 48(12) 777-794 (Dec 1995), 2A915
Convergence of convective-diffusive lattice Boltzmann methods, SIAM J Numer Anal 32(5) 1327-1354 (Oct 1995), 2A919
Fast generation of low-discrepancy sequences, J Comput Appl Math 61(1) 29-41 (Jul 1995), 4A1000
Rarefied gas flow simulation based on quasigasdynamic equations, AIAA J 33(12) 2316-2324 (Dec 1995), 4A1001
Moving mesh algorithm for 3D regional groundwater flow with water table and seepage face, Adv Water Resources 19(2) 83-95 (1996), 5T908
Stability of computational algorithms used in molecular dynamics simulations, J Fluids Eng 117(3) 531-534 (Sep 1995), 5T909
Fast approximate calculation of the viscous heat-conducting gas flow around the forebodies, Thermophys and Aeromech 2(2) 81-87 (1995), 5T910
Model verification on 3D tidal current analysis in Tokyo Bay, Int J Numer Methods Fluids 22(1) 43-66 (Jan 1996), 6A936
Numerical simulation of the stationary 1D Boltzmann equation by particle methods, Eur J Mech B 15(1) 103-118 (1996), 8T924
Numerical analysis of the shear and thermal creep flows of a rarefied gas over the plane wall of a Maxwell-type boundary on the basis of the linearized Boltzmann equation for hard-sphere molecules, Eur J Mech B 15(2) 175-201 (1996), 10T1112
Assessment of schemes for coupling Monte Carlo and Navier-Stokes solution methods, J Thermophys Heat Transfer 10(2) 242-249 (Jun 1996), 10A1115
Convective instabilities in rarefied gases by direct simulation Monte Carlo method, J Thermophys Heat Transfer 10(2) 250-256 (Jun 1996), 10A1116
Three-dimensional plasma-neutral gas-fluid code, J Comput Phys 125(2) 513-525 (May 1996), 11A929
Comparison of maximum entropy direct simulation Monte Carlo code with flowfield measurements, AIAA J 34(7) 1378-1385 (Jul 1996), 12A1081

358Z. Experimental techniques

Experimental validation of particle model drift theories, J Spacecraft Rockets 33(2) 250-254 (Apr 1996), 10A945

360. MULTIPHASE FLOWS

Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, Exp Fluids 20(4) 302-313 (Feb 1996), 8A926

360A. General theory

Cavitation and Multiphase Flow - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N26
Flow Visualizaiton and Image Processing of Multiphase Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N29
Interaction of a moving fluid-fluid interface with a flat plate, J Fluid Mech 296 325-351 (Aug 1995), 1A1032
Two-way interaction in 2D particle-laden flows: The accumulation of particles and flow modification, J Fluid Mech 297 49-76 (Aug 1995), 2A925
Finite deformation of liquid capsules enclosed by elastic membranes in simple shear flow, J Fluid Mech 297 123-152 (Aug 1995), 2A1304
Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N29
Traveling waves solution of convection-diffusion systems whose convection terms are weakly non-conservative: Application to the modeling of two-phase fluid flows, SIAM J Appl Math 55(6) 1552-1576 (Dec 1995), 4A1002
Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, JSME Int J Ser B 38(4) 555-562 (Nov 1995), 4A1017
Advances in Multiphase Flow 1995 - Selected papers from 2nd Int Congress on Multiphase Flow, Kyoto, Japan, April, 1995 (Elsevier Sci, New York, 1995) 5N24
Finite-particle-size effects in disperse two-phase flows, Theor Comput Fluid Dyn 7(6) 429-440 (1995), 5A912
Effect of surface roughness on the vapor flow under Leidenfrost-levitated droplets, J Fluids Eng 117(3) 519-525 (Sep 1995), 5A919
Effect of centerline particle concentration in a wave tube, J Fluid Mech 306 31-42 (Jan 1996), 7A1087
Sedimentation of Small Particles in a Viscous Fluid - Advances in Fluid Mechanics Series (Comput Mech, Billerica MA, 1996) 8N28
Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8 (Begell House, New York, 1994) 9N22
Motion of a liquid drop in oscillating liquid, Prikl Mekh (Appl Mech) 31(7) 78-83 (1995), 9A1117
Stokesian dynamics simulation of Brownian suspensions, J Fluid Mech 313 181-207 (Apr 1996), 11A930
Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, J Fluid Mech 313 309-341 (Apr 1996), 11A933

360B. Mixtures of liquid or gas with solid particles (eg slurries)

Simple shear flows of dilute gas-solid suspensions, J Fluid Mech 296 211-245 (Aug 1995), 1A967
Simultaneous measurements of flow rates and particle concentrations in heterogeneous solid-water two-phase flows by means of one venturi, JSME Int J Ser B 38(3) 440-447 (Aug 1995), 1T1033
Development and investigation of three-phase model of the mushy zone for analysis of porosity formation in solidifying castings, Int J Heat Mass Transfer 38(14) 2557-2567 (Sep 1995), 1A1359
Gas-Particle Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N39
Effect of interaction of rodlike particles in semi-dilute suspensions under shear flow, J Phys Soc Japan 64(9) 3265-3274 (Sep 1995), 2A920
Effects of Poiseuille flow on peristaltic transport of a particulate suspension, Z Angew Math Phys 46(5) 655-679 (Sep 1995), 2A921
Lateral capillary interaction between particles protruding from a spherical liquid layer, J Fluid Mech 299 105-132 (Sep 1995), 2A922
Particle motion in the stagnation zone of an impinging air jet, J Fluid Mech 299 333-366 (Sep 1995), 2A923
Resistance functions for spherical particles, droplets and bubbles in cylindrical tubes, J Fluid Mech 298 193-210 (Sep 1995), 2A924
Two-way interaction in 2D particle-laden flows: The accumulation of particles and flow modification, J Fluid Mech 297 49-76 (Aug 1995), 2A925
Flow characteristics of gas-liquid-particle mixing in a gas-stirred ladle system with throughflow, Exp Fluids 19(5) 328-335 (Sep 1995), 3A925
Head requirement for incipient fluidization of fine sands in unbounded domains, J Hydraul Eng 121(11) 838-841 (Nov 1995), 3A926
Interaction of water waves and seabed by the porous medium model, Acta Mech Sinica 11(2) 129-136 (1995), 3A927
Laminar flow performance of a heated body in particle-laden water, Exp Fluids 19(5) 305-312 (Sep 1995), 3A928
Numerical simulation of granular Couette flows between two rough parallel plates, Particulate Sci Tech 13(2) 133-147 (Jun 1995), 3A929
Prediction of vertical liquid-solid pipe flow using measured concentration distribution, Particulate Sci Tech 13(2) 85-104 (Jun 1995), 3A930
Modification and damping of Alfven waves in a magnetized dusty plasma, J Phys Soc Japan 64(10) 3758-3766 (Oct 1995), 3A980
Particle Size Analysis: Classification and Sedimentation Methods (Chapman and Hall, New York, 1994) 4R27
Stability analysis for the immersed fiber problem, SIAM J Appl Math 55(6) 1577-1591 (Dec 1995), 4A291
Effect of vortex pairing on particle dispersion and kinetic energy transfer in a two-phase turbulent shear layer, J Fluid Mech 302 149-178 (Nov 1995), 4A1003
Numerical analysis of equation of motion for a cluster of spheres in fluid at low Reynolds numbers, JSME Int J Ser B 38(4) 563-569 (Nov 1995), 4T1004
Orthotropic closure approximations for flow-induced fiber orientation, J Rheol 39(6) 1095-1122 (Dec 1995), 4A1005
Effects of variable viscosity and viscous dissipation on the flow of a third grade fluid in a pipe, Int J Non-Linear Mech 30(5) 687-699 (Sep 1995), 5A911
Finite-particle-size effects in disperse two-phase flows, Theor Comput Fluid Dyn 7(6) 429-440 (1995), 5A912
Particle size and velocity discrimination in a sediment-laden turbulent flow using phase Doppler anemometry, J Fluids Eng 117(3) 505-511 (Sep 1995), 5A913
Parallel pipelining, J Fluids Eng 117(3) 446-449 (Sep 1995), 5A942
Dusty-gas flow in a laminar boundary layer over a blunt body, J Fluid Mech 305 29-46 (Dec 1995), 6A937
Elucidation of concrete flow mechanism in the truck agitator by distribution of velocity vector (Japanese), Proc JSCE 526(II) 21-28 (Nov 1995), 6A938
Numerical simulation of particle transport in planar shear layers, Comput Fluids 25(1) 39-59 (Jan 1996), 6A939
Simulations of gas penetration in thin plates designed with a semicircular gas channel during gas-assisted injection molding, Int J Mech Sci 38(3) 335-348 (Mar 1996), 6A940
Temperature effects on flocculation kinetics using FE(III) coagulant, J Env Eng 121(12) 893-901 (Dec 1995), 6T941
Tilt of stationary capsule in pipe, J Hydraul Eng 122(2) 90-96 (Feb 1996), 6T942
Adhesion and hydrodynamic removal of colloidal particles from surfaces, Particulate Sci Tech 13(3-4) 227-247 (Dec 1995), 7A1034
Particle adhesion and removal: A review, Particulate Sci Tech 13(3-4) 169-196 (Dec 1995), 7A1037
Removal of particulate contaminants using ultrasonics and megasonics: A review, Particulate Sci Tech 13(3-4) 197-211 (Dec 1995), 7A1039
Dynamic processes during in-flight motion of Cr_3C_2-NiCr powder particles in high velocity oxy-fuel (HVOF) spraying, J Mat Processing Manuf Sci 4(1) 25-39 (Jul 1995), 7A1086
Effect of centerline particle concentration in a wave tube, J Fluid Mech 306 31-42 (Jan 1996), 7A1087
Granular thermal diffusion in flows of binary-sized mixtures, Acta Mech 114(1-4) 121-137 (1996), 8A927
Secondary flows and particle centrifugation in slightly tilted rotating pipes, Appl Sci Res 55(2) 95-105 (Sep 1995), 8A928
Shear-induced dispersion in a dilute suspension of rough spheres, J Fluid Mech 309 211-223 (Feb 1996), 8A929
Interpretation of PIV autocorrelation measurements in complex particle-laden flows, Exp Fluids 20(4) 314-317 (Feb 1996), 8A938
Hydromagnetic pulsatile flow of a two-phase fluid, Z Angew Math Mech 76(2) 121-123 (1996), 8T993
Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8 (Begell House, New York, 1994) 9N22
Calculation method for design shear capacity for slurry wall member with joint (Japanese), Proc JSCE 532(V-30) 29-39 (Feb 1996), 9A305
Conservation law with point source and discontinuous flux function modeling continuous sedimentation, SIAM J Appl Math 56(2) 388-419 (Apr 1996), 9A1052
Elastohydrodynamic collisions of solid spheres, J Fluid Mech 311 141-152 (Mar 1996), 9A1118
Hydrodynamic diffusion of suspended particles: A symposium, J Fluid Mech 310 325-335 (Mar 1996), 9A1119
Numerical considerations in simulating a turbulent suspension of finite-volume particles, J Comput Phys 124(2) 337-350 (Mar 1996), 9A1120
Particle dispersion in flowing gases: 1994 Freeman scholar lecture, J Fluids Eng 118(1) 4-17 (Mar 1996), 9A1121
Take-off threshold velocity of solid particles lying under a turbulent boundary layer, Exp Fluids 20(5) 377-382 (Mar 1996), 9A1122
Turbulent transport effect on hydrocyclone performance, J Env Eng 122(4) 306-313 (Apr 1996), 9A1430
Dusty shock flow with unstructured adaptive FEs and parcels, AIAA J 34(5) 1078-1080 (May 1996), 10T15
Study on 3D mathematical model of river bed erosion for water-sediment two-phase flow, Acta Mech Sinica 12(1) 85-91 (1996), 10A1062
Adhesion and aerodynamic resuspension of fibrous particles, J Env Eng 122(5) 379-383 (May 1996), 10T1117
Computer simulation of pipe bend erosion in a dilute pneumatic transport of granular materials, Particulate Sci Tech 14(1) 59-73 (Mar 1996), 10A1118
Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, J Non-Newtonian Fluid Mech 63(1) 63-88 (Mar 1996), 10A1119
Friction relations for the many-sphere Oseen hydrodynamic interactions, Arch Mech 48(2) 231-244 (1996), 10A1120
Inertial effects on the retention of particles in the near wake of blunt obstacles, J Brazilian Soc Mech Sci 18(1) 74-79 (Mar 1996), 10A1121
Interactions of particles and microbubbles with turbulence, Exp Thermal Fluid Sci 12(4) 417-425 (May 1996), 10A1122
Numerical simulation of particle concentration at the exit of a direct injected abrasive waterjet nozzle, Particulate Sci Tech 14(1) 75-88 (Mar 1996), 10A1123
Self-diffusion in sheared suspensions, J Fluid Mech 312 223-252 (Apr 1996), 10A1124
Sealing bacterial filtration rates in different sized porous media, J Env Eng 122(5) 407-415 (May 1996), 10A1126
Application of flux-vector-splitting scheme to a dilute gas-particle JPL nozzle flow, Int J Numer Methods Fluids 22(10) 921-935 (May 1996), 11A931
Dynamic simulation of hydrodynamically interacting spheres in a quiescent second-order fluid, J Fluid Mech 315 345-365 (May 1996), 11A932
Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, J Fluid Mech 313 309-341 (Apr 1996), 11A933
Simulations of particle dynamics in a confined shear flow, AIAA J 34(6) 1160-1166 (Jun 1996), 11A934
Measurement of the lift force on a particle fixed to the wall in the viscous sublayer of a fully-developed turbulent boundary layer, J Fluid Mech 316 285-306 (Jun 1996), 12A1082
Modeling of dust entrainment by high-speed airflow, AIAA J 34(7) 1392-1402 (Jul 1996), 12A1083
Sedimentation of a sphere near a plane wall: Weak non-Newtonian and inertial effects, J Non-Newtonian Fluid Mech 63(2-3) 201-233 (Apr 1996), 12A1084
Effect of dispersed phase on modification of turbulent flow in a wall jet, J Fluids Eng 118(2) 307-315 (Jun 1996), 12A1132

360C. Liquid-gas mixture

Study of ignition process of diesel sprays, JSME Int J Ser B 38(3) 483-489 (Aug 1995), 1T1313
Cavitation and Gas-Liquid Flow in Fluid Machinery Devices - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N34
Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N38
Theory of bubbly fluids, Int J Eng Sci 33(13) 1853-1860 (Oct 1995), 2A926
Formation of shock waves in gas-liquid foams, Shock Waves 5(3) 189-192 (Oct 1995), 3A931
Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), J Brazilian Soc Mech Sci 17(1) 14-25 (1995), 3A932
Peculiarities of two-phase flow in coalbeds, J Brazilian Soc Mech Sci 17(1) 26-34 (1995), 3A933
Two-phase modeling in horizontal dividing T-junction with different branch diameters, Arch Thermodyn 15(1-4) 63-79 (1994), 3A934
Friction pressure drop of R-12 in small hydraulic diameter extruded aluminum tubes with and without micro-fins, Int J Heat Mass Transfer 39(4) 801-809 (Mar 1996), 5A914
Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, Int J Heat Mass Transfer 39(4) 735-743 (Mar 1996), 5A915
Simulation of gas injection into liquid melts, Appl Math Model 20(1) 41-51 (Jan 1996), 5A916
Two-phase flow for a horizontal well penetrating a naturally fractured reservoir with edge water injection, Appl Math Mech 16(10) 937-942 (Oct 1995), 6A943
Application of the method of Landau and Lifshitz to sonic velocities in homogeneous two-phase mixtures, J Fluids Eng 118(1) 186-188 (Mar 1996), 9A1123
Numerical simulations of 3D drop collisions, AIAA J 34(4) 750-755 (Apr 1996), 9A1124
Response of turbulent flow to abrupt changes in surface roughness and its relevance in horizontal annular flow, Appl Math Model 20(3) 244-251 (Mar 1996), 9A1146
Dynamics of laser-induced bubble in pressurized liquid nitrogen, JSME Int J Ser B 39(2) 257-263 (May 1996), 11T935
Another solution for annular two-phase flow with a laminar-laminar regime, Facta Univ Mech Auto Control Robotic 1(5) 613-618 (1995), 12A1085
Flow visualization experiments on free draining of a rotating column of liquid using nets and tufts, Exp Fluids 21(2) 139-142 (Jun 1996), 12T1086
Gas-liquid bubbly flow in vertical pipes, J Fluids Eng 118(2) 377-382 (Jun 1996), 12A1087
Rotating gas-liquid flows in finite cylinders: Sensitivity of standing vortices to end effects, Exp Fluids 21(2) 124-138 (Jun 1996), 12A1088
Swirl atomizers operating at high water pressure, Int J Mech Sci 38(8-9) 981-999 (Sep 1996), 12A1089

360D. Liquid-vapor mixture

Friction losses in two-phase flow taking into account relative motion of phases, Heat Transfer Res 25(6) 846-851 (1993), 1A1034
Simple model to evaluate direct contact heat transfer and flow characteristics in annular two-phase flow, Int J Heat Fluid Flow 16(4) 272-279 (Aug 1995), 1A1035
Stability of spherical isothermal liquid-vapor interfaces, Meccanica 30(3) 305-319 (Jun 1995), 1A1036
Combined gravity gradient and jitter accelerations acting on liquid-vapor interface oscillations in reduced gravity, Int J Mech Sci 37(11) 1203-1221 (Nov 1995), 2A927
Linear pressure waves in fogs, J Fluid Mech 299 187-215 (Sep 1995), 2A928
Modelisation de la perte irreversible diphasique a travers une singularite (French), European J Mech Eng 40(2) 79-87 (1995), 2A929
Developing lengths in horizontal two-phase bubbly flow, J Fluids Eng 117(3) 512-518 (Sep 1995), 5A917
Cupped propeller test and analysis, Ship Tech Res 42(4) 186-192 (Oct 1995), 5A987
Acoustic saturation of the critical speeding up, Physica D 89(3-4) 381-394 (Jan 1996), 6A928
Experimental investigation of countercurrent liquid-vapor interactions and their effect on the friction factor, Exp Thermal Fluid Sci 12(1) 25-32 (Jan 1996), 6T944
Study on two-phase flow instability in parallel multi-channels, Heat Transfer Japan Res 23(8) 693-709 (1994), 7A1116
Stationary waves on an inclined sheet of viscous fluid at high Reynolds and moderate Weber numbers, J Fluid Mech 307 191-229 (Jan 1996), 7A1126
Effect of valve lift and disk surface on two-phase critical flow at hot water relief valve, Int J Heat Mass Transfer 39(8) 1617-1624 (May 1996), 8A930
Effect of branch orientation on annular two-phase flow in T-junctions, J Fluids Eng 118(1) 166-171 (Mar 1996), 9A1125
Viscous term in the model of two-phase bubble flow, Prace Inst Maszyn Przeplywowych 0(99) 79-88 (1995), 9A1126
Mechanics and Combustion of Droplets and Sprays (Begell House, New York, 1995) 11R44
Chaotic oscillations in a low pressure two-phase natural circulation loop under low power and high inlet subcooling conditions, Nucl Eng Des 162(2-3) 223-232 (Apr 1996), 11A1421
Periodic flow excursion in an open two-phase natural circulation loop, Nucl Eng Des 162(2-3) 233-244 (Apr 1996), 11A1422
Two-phase level tracking method, Nucl Eng Des 162(2-3) 271-280 (Apr 1996), 11A1424

360E. Liquid drop formation

Effects on the injection of droplets on a stationary shock wave in a nozzle (French), Int J Heat Mass Transfer 38(14) 2595-2610 (Sep 1995), 1A1037
Simultaneous sedimentation and coalescence of a dilute dispersion of small drops, J Fluid Mech 295 247-261 (Jul 1995), 1A1038
Pressure-impulse theory for liquid impact problems, J Fluid Mech 297 193-214 (Aug 1995), 2A930
Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, Exp Fluids 19(4) 264-273 (Aug 1995), 2A931
Experiments in acoustic levitation: Surface tension measurements of deformed droplets, J Thermophys Heat Transfer 9(4) 694-701 (Dec 1995), 3A935
Impact of n-heptane droplets on a hot surface in low gravity, Trans Can Soc Mech Eng 19(3) 271-284 (1995), 3A936
Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, J Non-Newtonian Fluid Mech 60(2-3) 129-154 (Nov 1995), 4A1006
Collective hydrodynamics of deformable drops and bubbles in dilute low Reynolds number suspensions, J Fluid Mech 300 231-263 (Oct 1995), 4A1007
Droplet deposition and heat transfer simulations of turbulent air-water dispersed flow in a vertical tube, JSME Int J Ser B 38(4) 628-636 (Nov 1995), 4T1008
Iterative method for the shape of static drops, Comput Methods Appl Mech Eng 126(3-4) 251-265 (Oct 1995), 4A1009
Motion of a droplet subjected to linear shear flow including the presence of a plane wall, J Fluid Mech 302 45-63 (Nov 1995), 4A1010
Deformation process of a water droplet impinging on a solid surface, J Fluids Eng 117(3) 394-401 (Sep 1995), 5A918
Effect of surface roughness on the vapor flow under Leidenfrost-levitated droplets, J Fluids Eng 117(3) 519-525 (Sep 1995), 5A919
Review of droplet dynamics and vaporization modeling for engineering calculations, J Eng Gas Turbines Power 117(3) 453-461 (Jul 1995), 5A920
Droplet break-up through an oblique shock wave, Shock Waves 5(5) 265-273 (Feb 1996), 7A282
Shear flow over a liquid drop adhering to a solid surface, J Fluid Mech 307 167-190 (Jan 1996), 7A1088
Transitional regime between coalescing and splashing drops, J Fluid Mech 306 145-165 (Jan 1996), 7A1089
Droplet motion in an electrohydrodynamic fine spray, Exp Fluids 20(3) 153-164 (Jan 1996), 7A1139
Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, Exp Fluids 20(4) 302-313 (Feb 1996), 8A926
Contraction of liquid filaments, J Fluid Mech 309 277-300 (Feb 1996), 8A931
Oscillations of liquid drops: Results from USML-1 experiments in Space, J Fluid Mech 308 1-14 (Feb 1996), 8A932
Deformation and rebounding processes of a water droplet impinging on a flat surface above Leidenfrost temperature, J Fluids Eng 118(1) 142-149 (Mar 1996), 9A1127
Ostwald ripening and coalescence of a binary alloy in 2D using a phase-field model, Model Simulation Mat Sci Eng 4(2) 215-229 (Mar 1996), 11A899
Dynamics of drops in branched tubes, J Fluid Mech 315 105-117 (May 1996), 11A936
Experiment on the breakup of impinging droplets on a hot surface, Exp Fluids 21(2) 118-123 (Jun 1996), 12A1090
Time-dependent viscous deformation of a drop in a rapidly rotating denser fluid, J Fluid Mech 317 275-299 (Jun 1996), 12A1091

360F. Bubble dynamics

Cavitation and Multiphase Flow - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N26

Nonlinear oscillations of a cluster of bubbles in a sound field: Bifurcation structure, JSME Int J Ser B 38(3) 432-439 (Aug 1995), 1A1039
Unsteady forces on spherical bubbles, Exp Fluids 19(3) 167-172 (Jul 1995), 1A1040
Resistance functions for spherical particles, droplets and bubbles in cylindrical tubes, J Fluid Mech 298 193-210 (Sep 1995), 2A924
Application of the boundary integral method to the interaction of rising 2D deformable gas bubbles, J Eng Math 29(5) 393-412 (Sep 1995), 2A932
Effects of thermal conduction on bubble dynamics near the sonoluminescence threshold, J Acoust Soc Am 98(5) 2772-2782 (Nov 1995), 3A937
Nonlinear coupling between the surface and volume modes of an oscillating bubble, J Acoust Soc Am 98(5) 2764-2771 (Nov 1995), 3A938
Spin-up and wrapping of cryogenic helium bubble around dewar well from rest in microgravity, Mech Res Commun 22(6) 615-625 (Dec 1995), 4T965
Effect of surfactant on bursting gas bubbles, J Fluid Mech 302 231-257 (Nov 1995), 4A1011
Free decay of shape oscillations of bubbles acoustically trapped in water and sea water, J Fluid Mech 300 149-167 (Oct 1995), 4A1012
Particle simulation of large carbon dioxide bubbles in water, Appl Math Model 19(12) 738-745 (Dec 1995), 4A1013
Time-evolving bubbles in 2D Stokes flow, J Fluid Mech 301 325-344 (Oct 1995), 4A1014
Developing lengths in horizontal two-phase bubbly flow, J Fluids Eng 117(3) 512-518 (Sep 1995), 5A917
Bubble dynamics fluid-structure interaction simulation by coupling fluid BEM and structural FEM codes, J Fluids Struct 9(8) 861-883 (Nov 1995), 5T921
Pore-scale prototypes of multiphase flow in porous media, Annu Rev Fluid Mech 28 187-213 (1996), 6A945
Two-dimensional cusp at the trailing edge of an air bubble rising in a viscoelastic liquid, J Fluid Mech 304 321-342 (Dec 1995), 6A946
Localization of gas bubbles in a cylindrical cavity with the emitter along its axis (Russian), Prikl Mekh (Appl Mech) 31(6) 92-96 (1995), 7A1090
Numerical solution of the 3D buoyancy driven cavity problem by a pseudospectral method, Appl Math Comput 75(1) 43-58 (Mar 1996), 7A1091
Strong interaction between a buoyancy bubble and a free surface, Theor Comput Fluid Dyn 8(1) 73-88 (1996), 7A1092
Solitary waves in bubbly liquids are linearly unstable, Eur J Mech B 15(1) 37-53 (1996), 8A197
Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8 (Begell House, New York, 1994) 9N22
Kinetic theory for bubbly flow - I: Collisionless case, SIAM J Appl Math 56(2) 327-357 (Apr 1996), 9A1115
Kinetic theory for bubbly flow - II: Fluid dynamic limit, SIAM J Appl Math 56(2) 358-371 (Apr 1996), 9A1116
Hydrodynamic diffusion of suspended particles: A symposium, J Fluid Mech 310 325-335 (Mar 1996), 9A1119
Deformation and position of acoustically levitated liquid drops, J Acoust Soc Am 99(4) 1977-1984 (Apr 1996), 9A1128
Experimental investigation of buoyant transient cavity collapse near rigid cylindrical boundaries, J Fluids Eng 118(1) 195-198 (Mar 1996), 9A1129
High-resolution bubble sizing through detection of the subharmonic response with a two-frequency excitation technique, J Acoust Soc Am 99(4) 1985-1992 (Apr 1996), 9A1130
Surfactant dynamics and rectified diffusion of microbubbles, J Fluid Mech 311 361-378 (Mar 1996), 9A1131
Interactions of particles and microbubbles with turbulence, Exp Thermal Fluid Sci 12(4) 417-425 (May 1996), 10A1122
Numerical simulation of the dynamics of acoustically levitated drops, J Acoust Soc Am 99(5) 2799-2810 (May 1996), 10A1125
Three-dimensional simulation of underwater explosion bubble, Chinese J Aeronaut 9(1) 38-42 (Feb 1996), 10A1127
Propagation of shock waves in dilute bubbly liquids: Governing equations, Hugoniot relations, and effect of slippage between two phases, JSME Int J Ser B 39(2) 264-272 (May 1996), 11T208
Dynamics of laser-induced bubble in pressurized liquid nitrogen, JSME Int J Ser B 39(2) 257-263 (May 1996), 11T935
Numerical method for modeling the motion of a spherical bubble, Int J Numer Methods Fluids 22(11) 1125-1134 (Jun 1996), 11A939
Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, J Fluids Eng 118(2) 400-408 (Jun 1996), 12A1023
Numerical determination of the Kelvin impulse of a bubble close to a submerged rigid structure, Comput Methods Appl Mech Eng 130(3-4) 195-202 (Apr 1996), 12A1092
Penetration length and diameter development of vortex rings generated by impacting water drops, Exp Fluids 21(2) 110-117 (Jun 1996), 12A1093

360G. Froth flow and spray flow

Simultaneous sedimentation and coalescence of a dilute dispersion of small drops, J Fluid Mech 295 247-261 (Jul 1995), 1A1038
Modeling and analysis of a spray of droplets' combustion problem, Z Angew Math Mech 75(8) 583-597 (1995), 1A1317
Characteristics of a velocity-modulated pressure-swirl atomizing spray, J Propulsion Power 11(5) 955-963 (Oct 1995), 2A933
Simulation of spray pyrolysis for ceramic powder preparation, Particulate Sci Tech 13(2) 149-167 (Jun 1995), 3A641
Liquid sheet and film atomization: A comparative experimental study, Exp Fluids 19(6) 388-396 (Oct 1995), 4A1015
Optical technique for detecting minute-amplitude standing waves on a liquid jet, Exp Fluids 19(6) 429-431 (Oct 1995), 4A1016
Simulation of gas injection into liquid melts, Appl Math Model 20(1) 41-51 (Jan 1996), 5A916
Ducted air flow induced by multiple spray nozzles, Atomization and Sprays 5(2) 123-135 (Apr 1995), 5A922
Holographic investigation of the near-nozzle structure of an effervescent atomizer-produced spray, Atomization and Sprays 5(2) 137-155 (Apr 1995), 5T1112
Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N31
Evaporation and combustion of a slowly moving liquid fuel droplet: Higher-order theory, J Fluid Mech 307 135-165 (Jan 1996), 7A1093
Development and evaluation of a new turbulence generator for atomization research, Exp Fluids 20(4) 291-301 (Feb 1996), 8A933
Holography experiments in a dense high-speed impinging jet spray, J Propulsion Power 12(2) 341-348 (Apr 1996), 8A934
Model of maximum liquid rate of fluidized spray granulator (Chinese), J Dalian Univ Tech 35(2) 155-159 (Apr 1995), 8A935
New measuring technique of diesel spray (Chinese), J Dalian Univ Tech 35(3) 371-375 (Jun 1995), 8A936
Solution of a class of polydisperse spray problems, European J Appl Math 7(1) 75-97 (Feb 1996), 8A937
Kinetic theory for bubbly flow - II: Fluid dynamic limit, SIAM J Appl Math 56(2) 358-371 (Apr 1996), 9A1116
Take-off threshold velocity of solid particles lying under a turbulent boundary layer, Exp Fluids 20(5) 377-382 (Mar 1996), 9A1122
Numerical simulations of 3D drop collisions, AIAA J 34(4) 750-755 (Apr 1996), 9A1124
Modeling and simulation of sprays in laminar flames, Meccanica 31(2) 177-193 (Apr 1996), 11A937

360H. Mixtures of liquid, gas, and solid particles

Gas-Particle Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N39
Peculiarities of two-phase flow in coalbeds, J Brazilian Soc Mech Sci 17(1) 26-34 (1995), 2A934
Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, JSME Int J Ser B 38(4) 555-562 (Nov 1995), 4A1017
Particle detachment from rough surfaces in turbulent flows, J Adhesion 51(1-4) 105-123 (1995), 5A923
Mechanism for slip between a liquid and a random surface with trapped gas due to a temperature gradient, IMA J Appl Math 56(1) 103-108 (1996), 10A1069
Computer model of glaze accretion on wires, J Offshore Mech Arctic Eng 118(2) 148-157 (May 1996), 11A1436
Influence of the surface liquid film on cylinder icing under marine conditions, J Offshore Mech Arctic Eng 118(2) 158-164 (May 1996), 11A1441
Asymptotic analysis and effect of reaction order on a reversible gas-solid system fast reaction, J Eng Math 30(3) 365-386 (May 1996), 12A1080

360I. Filtering

Computational Modelling of Free and Moving Boundary Problems III (Comput Mech, Billerica MA, 1995) 1N28
Analytical solution of flow field and pressure drop for filters with noncircular fibers, Aerosol Sci Tech 23(3) 311-320 (Oct 1995), 2A935
Particle Size Analysis: Classification and Sedimentation Methods (Chapman and Hall, New York, 1994) 4R27
Optimization of pleated filter designs using a FE numerical model, Aerosol Sci Tech 23(4) 579-590 (Nov 1995), 4A1018
Survey of Test Methods in Fluid Filtration (Gulf Publ, Houston, 1995) 8R26
Determination of the fractional efficiencies of fibrous filter media by optical in situ measurements, Aerosol Sci Tech 24(3) 161-173 (Apr 1996), 9A1132
Scaling bacterial filtration rates in different sized porous media, J Env Eng 122(5) 407-415 (May 1996), 10A1126
Self-similar solutions of Barenblatt's nonlinear filtration equation, European J Appl Math 7(2) 151-167 (Apr 1996), 11A938

360Y. Computational techniques

Computational Modelling of Free and Moving Boundary Problems III (Comput Mech, Billerica MA, 1995) 1N28
Accurate numerical method for systems of differentio-integral equations associated with multiphase flow, Comput Fluids 24(6) 625-652 (Jul 1995), 1A1041
Two-phase modeling of cavitated flows, Comput Fluids 24(7) 799-809 (Sep 1995), 2A855
Finite volume approximation of two phase-fluid flows based on an approximate Roe-type Riemann solver, J Comput Phys 121(1) 1-28 (Oct 1995), 2T936
Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), J Brazilian Soc Mech Sci 17(1) 14-25 (1995), 2A937
Local simulation of two-phase flows including interface tracking with mass transfer, J Comput Phys 121(1) 142-154 (Oct 1995), 2T1173
Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, J Brazilian Soc Mech Sci 16(4) 423-429 (1994), 3A43
Computational fluid dynamics simulation of bioreactors, Model Ident Control 16(4) 177-191 (Oct 1995), 4A382
Numerical analysis of equation of motion for a cluster of spheres in fluid at low Reynolds numbers, JSME Int J Ser B 38(4) 563-569 (Nov 1995), 4T1004
Motion of a droplet subjected to linear shear flow including the presence of a plane wall, J Fluid Mech 302 45-63 (Nov 1995), 4A1010
Effect of surfactant on bursting gas bubbles, J Fluid Mech 302 231-257 (Nov 1995), 4A1011
Particle simulation of large carbon dioxide bubbles in water, Appl Math Model 19(12) 738-745 (Dec 1995), 4A1013
Bubble dynamics fluid-structure interaction simulation by coupling fluid BEM and structural FEM codes, J Fluids Struct 9(8) 861-883 (Nov 1995), 5T921
Numerical analysis of two operator splitting methods for an hyperbolic system of conservation laws with stiff relaxation terms, Comput Methods Appl Mech Eng 128(3-4) 291-314 (Dec 1995), 5A924
Six-equation SFAV model for two-phase flow with correct propagating velocities of disturbances, Numer Heat Transfer B 28(4) 415-436 (Dec 1995), 5A925
Finite element analysis of anisotropic fluid suspensions, Int J Numer Methods Fluids 22(1) 11-27 (Jan 1996), 6A20
Numerical simulation of particle transport in planar shear layers, Comput Fluids 25(1) 39-59 (Jan 1996), 6A939
Laminar pulsatile two-phase non-Newtonian flow through a pipe, Comput Fluids 25(1) 77-93 (Jan 1996), 6A947
Numerical models for two-phase turbulent flows, Annu Rev Fluid Mech 28 11-43 (1996), 6A998
Numerical solution of the 3D buoyancy driven cavity problem by a pseudospectral method, Appl Math Comput 75(1) 43-58 (Mar 1996), 7A1091
Strong interaction between a buoyancy bubble and a free surface, Theor Comput Fluid Dyn 8(1) 73-88 (1996), 7A1092
Computation of dilute particulate laminar flow over a backward-facing step, Int J Numer Methods Fluids 22(3) 211-221 (Feb 1996), 7A1094
Elastohydrodynamic collisions of solid spheres, J Fluid Mech 311 141-152 (Mar 1996), 9A1118
Numerical considerations in simulating a turbulent suspension of finite-volume particles, J Comput Phys 124(2) 337-350 (Mar 1996), 9A1120
Deformation and rebounding processes of a water droplet impinging on a flat surface above Leidenfrost temperature, J Fluids Eng 118(1) 142-149 (Mar 1996), 9A1127
Approximate linearized Riemann solver for a two-fluid model, J Comput Phys 124(2) 286-300 (Mar 1996), 9T1133
Computer simulation of pipe bend erosion in a dilute pneumatic transport of granular materials, Particulate Sci Tech 14(1) 59-73 (Mar 1996), 10A1118
Numerical simulation of particle concentration at the exit of a direct injected abrasive waterjet nozzle, Particulate Sci Tech 14(1) 75-88 (Mar 1996), 10A1123
Three-dimensional simulation of underwater explosion bubble, Chinese J Aeronaut 9(1) 38-42 (Feb 1996), 10A1127
Multilevel schemes for solving unsteady equations, Int J Numer Methods Fluids 22(10) 937-959 (May 1996), 11A44
Application of flux-vector-splitting scheme to a dilute gas-particle JPL nozzle flow, Int J Numer Methods Fluids 22(10) 921-935 (May 1996), 11A931
Numerical method for modeling the motion of a spherical bubble, Int J Numer Methods Fluids 22(11) 1125-1134 (Jun 1996), 11A939

360Z. Experimental techniques

Planar ultrasonic imaging of a two-phase mixture, J Fluids Eng 117(2) 317-319 (Jun 1995), 1T1042
Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N38
Laminar flow performance of a heated body in particle-laden water, Exp Fluids 19(5) 305-312 (Sep 1995), 3A928
Improving the accuracy of the capacitance method for void fraction measurement, Exp Thermal Fluid Sci 11(4) 321-326 (Nov 1995), 4A1019
Particle size and velocity discrimination in a sediment-laden turbulent flow using phase Doppler anemometry, J Fluids Eng 117(3) 505-511 (Sep 1995), 5A913
Multidimensional, nonhomogeneous, dense spray contributions to diffraction-based particle size distribution measurements, Atomization and Sprays 5(2) 197-211 (Apr 1995), 5A1113
Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N31
PIV measurements in multiphase flow with nominally high concentration of the solid phase, Exp Fluids 20(3) 229-231 (Jan 1996), 7T1095
New measuring technique of diesel spray (Chinese), J Dalian Univ Tech 35(3) 371-375 (Jun 1995), 8A936
Interpretation of PIV autocorrelation measurements in complex particle-laden flows, Exp Fluids 20(4) 314-317 (Feb 1996), 8A938
Experimental investigation of buoyant transient cavity collapse near rigid cylindrical boundaries, J Fluids Eng 118(1) 195-198 (Mar 1996), 9A1129
Adaptive phase-Doppler system and its applications including particle sizing in submicron and nanometer ranges, Exp Fluids 20(5) 328-334 (Mar 1996), 9A1250
Particle size distribution technique using conventional laser doppler velocimetry measurements, AIAA J 34(6) 1209-1215 (Jun 1996), 11A940
Flow behavior near an infinite droplet stream, Exp Fluids 21(2) 80-86 (Jun 1996), 12A1094
Review of electrical impedance techniques for the measurement of multiphase flows, J Fluids Eng 118(2) 391-399 (Jun 1996), 12A1095

362. WALL LAYERS (INCL BOUNDARY LAYERS)

362B. Higher order theory

Concerning marginal singularities in the boundary-layer flow on a downstream-moving surface, J Fluid Mech 308 171-194 (Feb 1996), 8A939

362C. Laminar layers

Short-scale effects on model boundary-layer spots, J Fluid Mech 295 395-407 (Jul 1995), 1A1043
Turbulent spots in a laminar boundary layer subjected to a self-similar adverse pressure gradient, J Fluid Mech 296 185-209 (Aug 1995), 1A1044
Receptivity of axisymmetric boundary layers due to excitation by a Dirac point source at the wall, Eur J Mech B 14(4) 373-393 (1995), 1A1046
Vertically oscillating plate disturbing the development of a boundary layer, J Fluid Mech 298 1-22 (Sep 1995), 2A949
Laminar boundary layer receptivity to transverse structural vibration, J Sound Vib 186(3) 463-493 (Sep 1995), 3A212
Boundary layer flow and heat transfer on a continuous moving wavy surface, Acta Mech 112(1-4) 149-158 (1995), 3A939
Construction of special explicit solutions of the boundary-layer equations: Unsteady flows, Quart J Mech Appl Math 48(4) 611-633 (Nov 1995), 3A940
Laminar roughness boundary condition, J Fluid Mech 300 59-70 (Oct 1995), 4A939
Criterion for the detachment of laminar and turbulent boundary layers, AIAA J 33(11) 2114-2119 (Nov 1995), 4A1032

Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, Int J Heat Fluid Flow 16(5) 341-348 (Oct 1995), 5A927
Effect of pressure gradient on MHD boundary layer over a flat plate, Acta Mech 113(1-4) 1-7 (1995), 5A978
Model for separated laminar flow over a wavy boundary with sharp crests, Math Eng Industry 5(3) 211-234 (1995), 5A1340
Dusty-gas flow in a laminar boundary layer over a blunt body, J Fluid Mech 305 29-46 (Dec 1995), 6A937
Linear stability theory applied to boundary layers, Annu Rev Fluid Mech 28 389-428 (1996), 6A979
Phase-equation approach to boundary-layer instability theory: Tollmien-Schlichting waves, J Fluid Mech 304 185-212 (Dec 1995), 6A981
Compressible dusty-gas boundary-layer flow over a flat surface, J Fluids Eng 118(1) 179-185 (Mar 1996), 9A1104
Nonsimilar boundary layer on a moving wall, Heat and Mass Transfer Warme 31(4) 237-241 (Apr 1996), 10A1128
Self-similar viscous incompressible flow along an unbounded corner, AIAA J 34(5) 946-952 (May 1996), 10A1129
Experimental investigation of the features of the boundary layer development on an airfoil, TsAGI 1(4) 30-40 (1994), 10A1196
Nachtsheim and Swigert method extended to the study of the 2D plane or axisymmetric, nonisothermal, laminar boundary-layer with blowing (French), Int J Heat Mass Transfer 39(12) 2525-2537 (Aug 1996), 11A941
Effect of laminar flow control by suction on separation, J Fluids Eng 118(2) 410-412 (Jun 1996), 12T1096
Simple cases of the streamline-curvature instability in 3D boundary layers, J Fluid Mech 317 129-154 (Jun 1996), 12A1142

362D. Turbulent layers

Application of turbulence models to separated flow over rough surfaces, J Fluids Eng 117(2) 234-241 (Jun 1995), 1A1050
Co- and contrarotating streamwise vortices in a turbulent boundary layer, J Aircraft 32(5) 1095-1101 (Oct 1995), 2A938
Experimental testing of diffusion models in a manipulated turbulent boundary layer, AIAA J 33(9) 1597-1603 (Sep 1995), 2A939
Wall-wake model for the turbulence structure of boundary layers - Part 1: Extension of the attached eddy hypothesis, J Fluid Mech 298 361-388 (Sep 1995), 2A940
Secondary instability modes generated by a Tollmien-Schlichting wave scattering from a bump, Theor Comput Fluid Dyn 7(5) 341-354 (1995), 2A971
Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, AIAA J 33(11) 2013-2019 (Nov 1995), 4A990
Effects of mean flow 3D on turbulent boundary-layer structure, AIAA J 33(11) 2020-2025 (Nov 1995), 4A1020
Second moments, spectra and correlation functions of velocity and temperature fluctuations in the gradient sublayer of a retarded boundary layer, Int J Heat Mass Transfer 39(2) 331-346 (Jan 1996), 4A1021
Proposed intermittency measurement method for transitional boundary layer flows, Exp Fluids 19(6) 426-428 (Oct 1995), 4A1023
Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, AIAA J 33(12) 2241-2249 (Dec 1995), 4A1027
Structure of a turbulent double-fin interaction at Mach 4, AIAA J 33(12) 2250-2258 (Dec 1995), 4A1030
Criterion for the detachment of laminar and turbulent boundary layers, AIAA J 33(11) 2114-2119 (Nov 1995), 4A1032
Measurements of compressible turbulent flow structure in a supersonic mixing layer, AIAA J 33(11) 2101-2106 (Nov 1995), 4A1049
Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, Exp Fluids 19(6) 405-416 (Oct 1995), 4A1076
Direct numerical simulation of turbulent flow over a modeled riblet covered surface, J Fluid Mech 302 333-376 (Nov 1995), 4A1078
Simple, accurate integral solution for accelerating turbulent boundary layers with transpiration, J Fluids Eng 117(3) 535-538 (Sep 1995), 5T926
Buoyancy effects on the wake behind a heated obstacle immersed in a turbulent boundary layer, Int J Heat Fluid Flow 16(5) 405-416 (Oct 1995), 5A1136
Analysis of two-point velocity measurements in near-wall flows, Exp Fluids 20(2) 68-83 (Dec 1995), 6A988
Experimental determination of mixing length in the buffer layer of a turbulent boundary layer, Exp Thermal Fluid Sci 12(3) 298-304 (Apr 1996), 8T940
Wall-pressure fluctuations beneath turbulent boundary layers: Some reflections on forty years of research, J Sound Vib 190(3) 299-315 (Feb 1996), 8A941
Turbulent boundary layer on a moving continuous plate, Fluid Dyn Res 17(4) 181-194 (Mar 1996), 8A981
Wall-vorticity flux dynamics in a 2D turbulent boundary layer, J Fluid Mech 309 45-84 (Feb 1996), 8A982
Kaplun limits and the asymptotic structure of the turbulent boundary layer, J Brazilian Soc Mech Sci 18(1) 80-87 (Mar 1996), 10A1130
Laser doppler anemometer measurements of turbulent boundary layer over a riblet surface, AIAA J 34(5) 1007-1012 (May 1996), 10A1131
Scaling of the bursting frequency for turbulent boundary layers approaching separation, AIAA J 34(5) 1070-1072 (May 1996), 10T1132
Turbulent boundary layer in an adverse pressure gradient: Effectiveness of riblets, AIAA J 34(5) 932-937 (May 1996), 10A1133
Comparative study of the influence of curvature on the boundary layers and on the inner region of wall jets, Indian J Eng Mat Sci 3(2) 51-56 (Apr 1996), 11A942
Conditionally sampled turbulent Prandtl number in the outer region of a turbulent boundary layer, J Heat Transfer 118(2) 480-482 (May 1996), 11T943
Eddy viscosity and entrainment in turbulent boundary layers, Mec Appl 39(6) 601-618 (Dec 1994), 11A944
Incompressible zero-pressure-gradient turbulent boundary layer: An assessment of the data, Prog Aerospace Sci 32(4) 245-311 (Aug 1996), 11A945
Advances in 3D turbulent boundary layers with emphasis on the wall-layer regions, J Fluids Eng 118(2) 219-232 (Jun 1996), 12A1097
Practical approximate turbulent boundary layer calculation into the divergent rectangular channel, Z Angew Math Mech 76(6) 321-335 (1996), 12A1098
Space correlation measurements in a forced shear layer with wall injection, Exp Fluids 21(1) 26-32 (May 1996), 12A1099
High freestream turbulence effects on turbulent boundary layers, J Fluids Eng 118(2) 276-284 (Jun 1996), 12A1150

362E. Transition and relaminarization

Turbulent spots in a laminar boundary layer subjected to a self-similar adverse pressure gradient, J Fluid Mech 296 185-209 (Aug 1995), 1A1044
Analysis of the photodiode boundary-layer transition indicator, J Thermophys Heat Transfer 9(3) 499-507 (Sep 1995), 1A1045
Receptivity of axisymmetric boundary layers due to excitation by a Dirac point source at the wall, Eur J Mech B 14(4) 373-393 (1995), 1A1046
Boundary layer transition triggered by hairpin eddies at subcritical Reynolds numbers, J Fluid Mech 297 101-122 (Aug 1995), 2A941
Direct numerical simulation of controlled transition in a flat-plate boundary layer, J Fluid Mech 298 211-248 (Sep 1995), 2A942
Influence of boundary-layer transition on measured incipient separation angles, J Propulsion Power 11(5) 938-942 (Oct 1995), 2A943
Receptivity mechanisms for Gortler vortex modes, Theor Comput Fluid Dyn 7(5) 317-339 (1995), 2A944
Capturing of transition by the RNG based algebraic turbulence model, Comput Fluids 24(8) 909-918 (Nov 1995), 4A1022
Proposed intermittency measurement method for transitional boundary layer flows, Exp Fluids 19(6) 426-428 (Oct 1995), 4A1023
Stability of spatially developing boundary layers in pressure gradients, J Fluid Mech 300 117-147 (Oct 1995), 4A1024
Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, AIAA J 33(11) 2032-2037 (Nov 1995), 4A1025
Nonlinear development of disturbances in boundary layers assumed as parallel, Eur J Mech B 14(5) 577-599 (1995), 4A1059
Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, Int J Heat Fluid Flow 16(5) 341-348 (Oct 1995), 5A927
Measurement of transitional boundary layer on a flat plate using a computational Preston tube method, Exp Fluids 20(1) 29-37 (Nov 1995), 5A928
Shear-stress-sensitive liquid crystals for hypersonic boundary-layer transition detection, J Spacecraft Rockets 32(5) 749-757 (Oct 1995), 5A929
Simulation and analysis of instability and transition in high-speed boundary-layer flows, Comput Syst Eng 6(6) 563-575 (Dec 1995), 5A930
Three-wave nonlinear interaction in a 3D compressible boundary layer, Int J Non-Linear Mech 30(5) 661-671 (Sep 1995), 5A931
Effects of displacement induced by thermal perturbations on the structure and stability of boundary-layer flows, Theor Comput Fluid Dyn 8(1) 57-72 (1996), 7A1098
Combined effects of elevated free-stream turbulence and streamwise acceleration on flow and thermal structures in transitional boundary layers, Exp Thermal Fluid Sci 12(3) 338-351 (Apr 1996), 8T942
Spectral analysis of boundary-layer transition on a heated flat plate, Int J Heat Fluid Flow 17(1) 12-21 (Feb 1996), 8A943
Boundary-layer transition on swept cylinders at hypersonic speeds, AIAA J 34(4) 649-654 (Apr 1996), 9A1097
Boundary-layer receptivity for a parabolic leading edge, J Fluid Mech 310 243-267 (Mar 1996), 9A1134
Numerical simulations of transitional axisymmetric coaxial jets, AIAA J 34(4) 736-743 (Apr 1996), 9A1135
Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, AIAA J 34(4) 683-690 (Apr 1996), 9A1141
Stability of attachment-line boundary layers - Part 1: The incompressible swept Hiemenz flow, J Fluid Mech 311 239-255 (Mar 1996), 9A1172
Pressure fluctuation characteristics in supersonic wind tunnel and their effect on boundary layer transition, TsAGI 1(4) 50-61 (1994), 10T1090
Disturbance growth control in a boundary layer, TsAGI 1(2) 23-33 (1994), 10A1134
Generation of Tollmien-Schlichting waves by free-stream turbulence, J Fluid Mech 312 341-371 (Apr 1996), 10A1135
Mechanics of the Tollmien-Schlichting wave, J Fluid Mech 312 107-124 (Apr 1996), 10A1136
Investigation of intermittency measurement methods for transitional boundary layer flows, Exp Thermal Fluid Sci 12(4) 433-443 (May 1996), 10T1140
Experimental study of the influence of riblets on transition, J Fluid Mech 315 31-49 (May 1996), 11A946
Flow and heat transfer behavior in transitional boundary layers with streamwise acceleration, J Turbomachinery 118(2) 314-326 (Apr 1996), 11A947
Onset of instability in unsteady boundary-layer separation, J Fluid Mech 315 223-256 (May 1996), 11A978
Flow behavior near an infinite droplet stream, Exp Fluids 21(2) 80-86 (Jun 1996), 12A1094
Composite, Navier-Stokes, and Euler unsteady-flow computations in boundary layers, J Eng Math 30(3) 307-320 (May 1996), 12A1100
Interaction of phase-locked modes: A new mechanism for the rapid growth of 3D disturbances, J Fluid Mech 316 335-372 (Jun 1996), 12A1101
Subharmonic transition to turbulence in a flat-plate boundary layer at Mach number 4.5, J Fluid Mech 317 301-335 (Jun 1996), 12A1102
Disturbance growth in an unstable 3D boundary layer and its dependence on environmental conditions, J Fluid Mech 316 73-113 (Jun 1996), 12A1140

362F. Compressible and hypersonic layers

Spatial direct numerical simulation of high-speed boundary-layer flows - Part II: Transition on a cone in Mach 8 flow, Theor Comput Fluid Dyn 7(5) 397-424 (1995), 2T945
Transition in supersonic and hypersonic boundary layers, Int J Eng Sci 33(13) 1893-1919 (Oct 1995), 2A946
New similarity solutions for hypersonic boundary layers with applications to inlet flows, AIAA J 33(11) 2080-2086 (Nov 1995), 4A1026
Boundary-layer-tripping studies of compressible dynamic stall flow, AIAA J 34(1) 96-103 (Jan 1996), 6A1017
Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, AIAA J 34(4) 683-690 (Apr 1996), 9A1141
Mathematical model for a 3D viscous thin shock layer, TsAGI 1(2) 102-114 (1994), 10T1137
Transient compressible boundary layer on a wedge impulsively set into motion, Arch Appl Mech 66(5) 336-342 (Apr 1996), 10A1141
Compressible boundary layer flow over a moving surface with a magnetic field, Mec Appl 40(1) 25-32 (Feb 1995), 11A1006
Subharmonic transition to turbulence in a flat-plate boundary layer at Mach number 4.5, J Fluid Mech 317 301-335 (Jun 1996), 12A1102

362G. Shock wave boundary layer interaction

Study of the shock motion in a hypersonic shock system-turbulent boundary layer interaction, Exp Fluids 19(3) 143-149 (Jul 1995), 1A1047
Transient Thermal Hydraulics, Heat Transfer, and Coupled Vessel and Piping Responses - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii (ASME Press, New York, 1995) 2N17
Effects of strakes on a glancing shock wave-turbulent boundary-layer interaction, J Aircraft 32(5) 985-992 (Oct 1995), 2A947
Hypersonic shockwave and turbulent boundary-layer interactions on a porous surface, AIAA J 33(10) 1977-1979 (Oct 1995), 3T941
Reduction of fluctuating pressure loads in shock and boundary-layer interactions using vortex generators, AIAA J 33(10) 1842-1849 (Oct 1995), 3A942
Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, AIAA J 33(12) 2241-2249 (Dec 1995), 4A1027
Shock-wave and boundary-layer interactions with bleed - Part I: Effect of slot angle, J Propulsion Power 11(6) 1231-1235 (Dec 1995), 4A1028
Shock-wave and boundary-layer interactions with bleed - Part 2: Effect of slot location, J Propulsion Power 11(6) 1236-1241 (Dec 1995), 4A1029
Structure of a turbulent double-fin interaction at Mach 4, AIAA J 33(12) 2250-2258 (Dec 1995), 4A1030
Viscous interaction phenomenon in hypersonic wedge flow, AIAA J 33(12) 2293-2298 (Dec 1995), 4A1031
Interactions between shock wave and hypersonic laminar boundary layer near convex corner, J Spacecraft Rockets 32(5) 783-790 (Oct 1995), 5A932
Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, AIAA J 34(1) 50-56 (Jan 1996), 6A948
Measurements of the mean heat transfer in a shock wave-turbulent boundary layer interaction, Exp Thermal Fluid Sci 12(1) 87-97 (Jan 1996), 6A949
Measurements of the triple shock wave-turbulent boundary-layer interaction, AIAA J 34(1) 57-64 (Jan 1996), 6A950
Reduction of fluctuating pressure loads in shock-boundary-layer interactions using vortex generators - Part 2, AIAA J 34(1) 195-197 (Jan 1996), 6T951
Review of the physics of swept-shock/boundary layer interactions, Prog Aerospace Sci 32(2-3) 173-244 (1996), 6A952
Experimental studies of supersonic film cooling with shock wave interaction, AIAA J 34(2) 265-271 (Feb 1996), 7A1096
Shock boundary-layer interaction on transonic airfoils for laminar and turbulent flow, J Aircraft 33(1) 100-108 (Feb 1996), 7A1097
Shock-wave and boundary-layer interactions with bleed through rows of holes, J Propulsion Power 12(2) 217-224 (Apr 1996), 8A944
Supersonic-inlet boundary-layer bleed flow, AIAA J 34(4) 778-785 (Apr 1996), 9A1154
Vortical cord-shock interference in free-flow and nonisobaric jets, TsAGI 1(2) 85-101 (1994), 10A1138
Experimental and numerical study of the interaction between a planar shock wave and a square cavity, J Fluid Mech 313 105-130 (Apr 1996), 11A204
Numerical investigation of shock wave reflections in steady flows, AIAA J 34(6) 1167-1173 (Jun 1996), 11A914
High-enthalpy, hypersonic compression corner flow, AIAA J 34(6) 1130-1137 (Jun 1996), 11A918
Supersonic shock-turbulent boundary-layer interaction on a roughened surface, J Propulsion Power 12(3) 463-469 (Jun 1996), 11A948
Unsteady pressure loads generated by swept-shock-wave and boundary-layer interactions, AIAA J 34(6) 1174-1181 (Jun 1996), 11A949
Correlation of shock angles caused by rhombic delta wings, AIAA J 34(7) 1529-1531 (Jul 1996), 12T1103
Interaction of a supersonic boundary layer with acoustic waves, Thermophys and Aeromech 2(3) 181-189 (1995), 12T1104
Methods for visualizing hypersonic shock-wave and boundary-layer interaction using electrical discharges, AIAA J 34(7) 1464-1467 (Jul 1996), 12A1105
Three-dimensional shock and boundary-layer interaction using Reynolds stress equation turbulence model, AIAA J 34(7) 1313-1320 (Jul 1996), 12A1106
Topological interpretation of the surface flow visualization of conical viscous-inviscid interactions, J Fluid Mech 316 115-137 (Jun 1996), 12A1107

362H. Three-dimensional layers

Large injection rates on unsteady compressible boundary layer flow over cones at angles of attack, Arch Appl Mech 65(6) 401-407 (Jul 1995), 1A1048
Three-dimensional boundary layers on complex-shaped bodies at angles of attack, J Appl Math Mech 59(1) 99-109 (1995), 1A1049
Effects of mean flow 3D on turbulent boundary-layer structure, AIAA J 33(11) 2020-2025 (Nov 1995), 4A1020
Calculation of ship flow in viscous fluid with free-surface effect (Chinese), J Dalian Univ Tech 35(5) 685-689 (Oct 1995), 8A1004

Self-similar viscous incompressible flow along an unbounded corner, AIAA J 34(5) 946-952 (May 1996), 10A1129
Three-dimensional shock and boundary-layer interaction using Reynolds stress equation turbulence model, AIAA J 34(7) 1313-1320 (Jul 1996), 12A1106
Effects of suction on the nonlinear stability of a 3D compressible boundary layer, IMA J Appl Math 56(2) 183-206 (Apr 1996), 12A1144

362I. Unsteady layers

Oscillatory internal shear layers in rotating and precessing flows, J Fluid Mech 298 327-339 (Sep 1995), 2A948
Vertically oscillating plate disturbing the development of a boundary layer, J Fluid Mech 298 1-22 (Sep 1995), 2A949
Unsteady separation and heat transfer upstream of obstacles, J Fluid Mech 305 1-27 (Dec 1995), 6A953
Unsteady hydromagnetic thermal boundary layer with suction, Mech Res Commun 23(1) 81-90 (Feb 1996), 7T1145
Boundary layer on a rotating ellipse, Z Angew Math Phys 47(2) 306-312 (Mar 1996), 10A1139
Investigation of intermittency measurement methods for transitional boundary layer flows, Exp Thermal Fluid Sci 12(4) 433-443 (May 1996), 10T1140
Transient compressible boundary layer on a wedge impulsively set into motion, Arch Appl Mech 66(5) 336-342 (Apr 1996), 10A1141
Breakdown of an axisymmetric laminar wake, TsAGI 1(2) 61-84 (1994), 10A1155
Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part I: Measurement of wake-affected heat transfer and wake-induced transition model, J Turbomachinery 118(2) 327-336 (Apr 1996), 11A1140
Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part II: Measurements of unsteady boundary layers and discussion, J Turbomachinery 118(2) 337-346 (Apr 1996), 11A1141
Boundary-layer flow around a submerged circular cylinder induced by free-surface traveling waves, J Fluid Mech 316 241-257 (Jun 1996), 12A1108

362J. Thermal boundary layers

Boundary layer flow and heat transfer on a continuous moving wavy surface, Acta Mech 112(1-4) 149-158 (1995), 3A939
Experimental studies of supersonic film cooling with shock wave interaction, AIAA J 34(2) 265-271 (Feb 1996), 7A1096
Unsteady hydromagnetic thermal boundary layer with suction, Mech Res Commun 23(1) 81-90 (Feb 1996), 7T1145
Mechanistic model for heat transfer from a wall to a fluid, Int J Heat Mass Transfer 39(7) 1475-1478 (May 1996), 7A1205
Effect of large-scale periodic unsteadiness on heat transport in the downstream region of a junction boundary layer, Int J Heat Fluid Flow 17(1) 3-11 (Feb 1996), 8A945
Heat transfer and fluid mechanics measurements for the endwall boundary layer downstream of a streamlined strut, J Heat Transfer 118(2) 485-488 (May 1996), 11T1136
Aiding flows non-unique similarity solutions of mixed-convection boundary-layer equations, Z Angew Math Phys 47(3) 341-352 (May 1996), 12A1217

362K. Non-Newtonian layers

Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, European J Appl Math 6(6) 559-571 (Dec 1995), 5A887
Blasius boundary-layer flow of a micropolar fluid, Int J Eng Sci 34(1) 113-124 (Jan 1996), 5A933
Laminar boundary layer flow of power-law fluids over wavy surfaces, Acta Mech 115(1-4) 55-65 (1996), 9A1136

362M. Separation and reattachment

Application of turbulence models to separated flow over rough surfaces, J Fluids Eng 117(2) 234-241 (Jun 1995), 1A1050
Challenges in high-alpha vehicle dynamics, Prog Aerospace Sci 31(4) 291-334 (1995), 2A950
Simulations of the unsteady separated flow past a normal flat plate, Int J Numer Methods Fluids 21(7) 525-547 (Oct 1995), 2A951
Structure and control of a turbulent reattaching flow, J Fluid Mech 298 139-165 (Sep 1995), 2A994
Boundary-layer control by heat and mass transfer, Int J Heat Mass Transfer 38(17) 3209-3217 (Nov 1995), 2A1102
Nonlinear Ekman suction and ageostrophic effects in rapidly rotating flows, Geophys Astrophys Fluid Dyn 79(1-4) 201-222 (Aug 1995), 3A900
Experimental study of 3D separation on a large-scale model, AIAA J 33(11) 2107-2113 (Nov 1995), 4A944
Criterion for the detachment of laminar and turbulent boundary layers, AIAA J 33(11) 2114-2119 (Nov 1995), 4A1032
Scaling of separation bubbles, JSME Int J Ser B 38(4) 541-548 (Nov 1995), 4T1033
Feedback control of globally unstable flows: Impinging shear flows, J Fluids Struct 9(8) 907-923 (Nov 1995), 5A337
Neural network prediction and control of 3D unsteady separated flowfields, J Aircraft 32(6) 1213-1220 (Dec 1995), 5A934Real-time model of 3D dynamic reattachment using neural networks, J Aircraft 32(6) 1177-1182 (Dec 1995), 5A935
Dynamic airfoil flow separation and reattachment, J Aircraft 32(6) 1191-1197 (Dec 1995), 5A992
Topology of global separation on an airfoil in the presence of stationary disturbance sources, Thermophys and Aeromech 2(2) 105-112 (1995), 5T1006
Computational estimate of the separation effect, J Aircraft 32(6) 1322-1325 (Dec 1995), 5A1017
Unsteady separation and heat transfer upstream of obstacles, J Fluid Mech 305 1-27 (Dec 1995), 6A953
Inviscid separated flow over a non-slender delta wing, J Fluid Mech 305 307-345 (Dec 1995), 6A1014
Effects of compressibility, pitch rate, and Reynolds number on unsteady incipient leading-edge boundary layer separation over a pitching airfoil, J Fluid Mech 308 195-217 (Feb 1996), 8A1008
Supersonic separation with obstructions, AIAA J 34(4) 849-851 (Apr 1996), 9T1137
Calculation of 3D separated flows within the framework of nonstationary Euler equations, TsAGI 1(2) 46-60 (1994), 10T1087
Scaling of the bursting frequency for turbulent boundary layers approaching separation, AIAA J 34(5) 1070-1072 (May 1996), 10T1132
Numerical methods in the theory of boundary-layer inviscid flow interaction, TsAGI 1(1) 25-54 (1994), 10A1144
Marginal separation in 3D flows, Theor Comput Fluid Dyn 8(3) 183-200 (1996), 11A950
Unsteady measurements near leading edge of separated flow, JSME Int J Ser B 39(2) 354-360 (May 1996), 11A951
Investigation on the properties and structures of starting vortex flow past a backward-facing step by WBIV technique, Exp Fluids 21(1) 57-65 (May 1996), 12A1109
Measurements of the turbulence structure in the vicinity of a 3D separation, J Fluids Eng 118(2) 268-275 (Jun 1996), 12A1110
Trailing-edge jet control of leading-edge vortices of a delta wing, AIAA J 34(7) 1447-1457 (Jul 1996), 12A1171

362N. Suction and injection

Large injection rates on unsteady compressible boundary layer flow over cones at angles of attack, Arch Appl Mech 65(6) 401-407 (Jul 1995), 1A1048
Near-wake of a circular cylinder: Control by steady and unsteady surface injection, J Fluids Struct 9(6) 659-669 (Aug 1995), 1A1065
Secondary instability with respect to spatial growing 3D subharmonic disturbances in boundary layer flow with suction, J Hydrodyn 7(3) 7-12 (1995), 4T1034
Simple, accurate integral solution for accelerating turbulent boundary layers with transpiration, J Fluids Eng 117(3) 535-538 (Sep 1995), 5T926
Numerical simulation of mixing for turbulent slot injection, AIAA J 34(1) 73-78 (Jan 1996), 6A970
Unsteady hydromagnetic thermal boundary layer with suction, Mech Res Commun 23(1) 81-90 (Feb 1996), 7T1145
Experimental investigation of angled injection in a compressible flow, J Propulsion Power 12(2) 442-445 (Apr 1996), 8A946
Flow characteristics in boundary-layer bleed slots with plenum, J Propulsion Power 12(2) 231-236 (Apr 1996), 8A947
Oblique flow impinging on a wall with suction or blowing, Acta Mech 115(1-4) 15-25 (1996), 9A1070
Optimum drag balance for boundary-layer suction, J Aircraft 33(2) 435-438 (Apr 1996), 9T1138
Supersonic-inlet boundary-layer bleed flow, AIAA J 34(4) 778-785 (Apr 1996), 9A1154
High-camber wing flow with tangential jet blowing, TsAGI 1(2) 34-45 (1994), 10T1142
Receptivity of pipe Poiseuille flow, J Fluid Mech 315 119-137 (May 1996), 11A952
Effect of laminar flow control by suction on separation, J Fluids Eng 118(2) 410-412 (Jun 1996), 12T1096
Space correlation measurements in a forced shear layer with wall injection, Exp Fluids 21(1) 26-32 (May 1996), 12A1099

362O. Surface roughness

Direct numerical simulation of turbulent flow over a modeled riblet covered surface, J Fluid Mech 302 333-376 (Nov 1995), 4A1078
Effect of riblets on sails, Exp Fluids 19(6) 397-404 (Oct 1995), 4A1105
Surface roughness effects on induced flow and frictional resistance of enclosed rotating disks, J Fluids Eng 117(3) 526-528 (Sep 1995), 5T936
Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, TsAGI 1(1) 63-69 (1994), 10A1176
Turbulent boundary-layer flow over fixed aerodynamically rough 2D sinusoidal waves, J Fluid Mech 312 1-37 (Apr 1996), 10A1177
Experimental study of the influence of riblets on transition, J Fluid Mech 315 31-49 (May 1996), 11A946
Effect of a hump on the stability of subsonic boundary layers over an airfoil, Int J Eng Sci 34(6) 599-628 (May 1996), 11A953

362P. Rotating fluids or surfaces

Oscillatory internal shear layers in rotating and precessing flows, J Fluid Mech 298 327-339 (Sep 1995), 2A948
Internal shear layers spawned by the critical regions in oscillatory Ekman boundary layers, J Fluid Mech 298 311-325 (Sep 1995), 2A952
Nonlinear Ekman suction and ageostrophic effects in rapidly rotating flows, Geophys Astrophys Fluid Dyn 79(1-4) 201-222 (Aug 1995), 3A900
Surface roughness effects on induced flow and frictional resistance of enclosed rotating disks, J Fluids Eng 117(3) 526-528 (Sep 1995), 5T936
Boundary layer on a rotating ellipse, Z Angew Math Phys 47(2) 306-312 (Mar 1996), 10A1139
Role of secondary vorticity in parallel blade-vortex interactions, AIAA J 34(6) 1195-1202 (Jun 1996), 11A1069
Wall and vortex-ring interactions, Appl Mech Rev 49(10) 447-461 (Oct 1996), 12A1111

362Q. Heat addition and cooling

Wall temperature effects on the stability of laminar boundary layers, J Aircraft 32(5) 1162-1164 (Oct 1995), 2T953
Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, AIAA J 33(11) 2013-2019 (Nov 1995), 4A990
Dissociative cooling: Effect on stagnation heat transfer of gas mixture injection, J Spacecraft Rockets 32(5) 777-782 (Oct 1995), 5A719
Effects of elevated free-stream turbulence on flow and thermal structures in transitional boundary layers, J Turbomachinery 117(3) 407-417 (Jul 1995), 5A937
Account of free-stream-turbulence length scale on laminar heat transfer, J Turbomachinery 117(3) 401-406 (Jul 1995), 5A966
Existence and stability of boundary layer's solutions to a system of reaction-diffusion equations, Nonlinear Anal 26(4) 641-657 (Feb 1996), 5T1200
Measurements of the mean heat transfer in a shock wave-turbulent boundary layer interaction, Exp Thermal Fluid Sci 12(1) 87-97 (Jan 1996), 6A949
Effects of displacement induced by thermal perturbations on the structure and stability of boundary-layer flows, Theor Comput Fluid Dyn 8(1) 57-72 (1996), 7A1098
Introductory analysis of boundary-layer development on de-anti-icing fluid, J Aircraft 33(1) 74-80 (Feb 1996), 7A1170
Combined perturbation and finite-difference procedure applied to temperature effects and stability in a laminar boundary layer, Arch Appl Mech 66(4) 264-272 (Mar 1996), 9A1139
Boundary layer development on a continuous moving surface with a parallel free stream due to impulsive motion, Heat and Mass Transfer Warme 31(4) 283-289 (Apr 1996), 10A1245
Thermal ignition in buoyancy-driven boundary layer flows along inclined hot plates, Int J Heat Mass Transfer 39(10) 2187-2190 (Jul 1996), 10T1247
Three-dimensional mixed convection laminar boundary-layer near a plane of symmetry, Int J Eng Sci 34(6) 659-675 (May 1996), 11A954

362R. Compliant wall

Hydrodynamic stability of channel flow with compliant boundaries, Theor Comput Fluid Dyn 8(2) 105-129 (1996), 8A948

362S. Drag reduction

Mechanism of drag reduction, J Non-Newtonian Fluid Mech 59(1) 93-101 (Aug 1995), 1A1051
Steady flow past a circular cylinder coated with magnetic fluid: Flow structure, drag reduction, and coating deformation, J Fluid Mech 295 1-22 (Jul 1995), 1A1095
Eighth European drag reduction meeting held on September 23 - 24, 1993, Lausanne, Switzerland, Appl Sci Res 54(4) 237-385 (Jun 1995), 2A954
Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, Appl Sci Res 55(1) 63-82 (Jul 1995), 3A943
Tentative approach to the direct simulation of drag reduction by polymers, J Non-Newtonian Fluid Mech 60(2-3) 277-301 (Nov 1995), 4A1035
Flow management techniques for base and afterbody drag reduction, Prog Aerospace Sci 32(2-3) 79-129 (1996), 6A954
Modern developments in flow control, Appl Mech Rev 49(7) 365-379 (Jul 1996), 8A899
Viscous drag reduction using riblets on NACA 0012 airfoil to moderate incidence, AIAA J 34(4) 676-682 (Apr 1996), 9A1140
Laser doppler anemometer measurements of turbulent boundary layer over a riblet surface, AIAA J 34(5) 1007-1012 (May 1996), 10A1131
Turbulent boundary layer in an adverse pressure gradient: Effectiveness of riblets, AIAA J 34(5) 932-937 (May 1996), 10A1133
Drag reduction with the slip wall, AIAA J 34(5) 1072-1074 (May 1996), 10T1143

362T. Non-equilibrium and chemical effects

Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part I: Equal diffusivities, Fluid Dyn Res 16(6) 311-333 (Nov 1995), 3A944
Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part II: Different diffusivities for reactant and autocatalyst, Fluid Dyn Res 16(6) 335-359 (Nov 1995), 3A945
Nonequilibrium-dissociated stagnation boundary-layer flow on an arbitrarily catalytic swept wing, AIAA J 33(10) 1836-1841 (Oct 1995), 3A988

362Y. Computational techniques

Direct numerical simulation of controlled transition in a flat-plate boundary layer, J Fluid Mech 298 211-248 (Sep 1995), 2A942
Spatial direct numerical simulation of high-speed boundary-layer flows - Part II: Transition on a cone in Mach 8 flow, Theor Comput Fluid Dyn 7(5) 397-424 (1995), 2T945
Simulations of the unsteady separated flow past a normal flat plate, Int J Numer Methods Fluids 21(7) 525-547 (Oct 1995), 2A951
Generalized differential and integral quadrature and their application to solve boundary layer equations, Int J Numer Methods Fluids 21(9) 723-733 (Nov 1995), 3A946
Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, Int J Heat Fluid Flow 16(5) 341-348 (Oct 1995), 5A927
Simulation and analysis of instability and transition in high-speed boundary-layer flows, Comput Syst Eng 6(6) 563-575 (Dec 1995), 5A930
Asymptotic modeling for separating boundary layers in a channel, Int J Eng Sci 34(2) 201-211 (Jan 1996), 5A938
Exponential box-schemes for boundary-layer flows with blowing, J Thermophys Heat Transfer 10(1) 126-130 (Mar 1996), 6A955
Matching inviscid-boundary-layer flowfields, AIAA J 34(1) 35-42 (Jan 1996), 6A956
Initial values searching method for solving non-similar boundary layer problems by the local non-similarity model, J Brazilian Soc Mech Sci 17(3) 252-268 (1995), 7A1099
Combined perturbation and finite-difference procedure applied to temperature effects and stability in a laminar boundary layer, Arch Appl Mech 66(4) 264-272 (Mar 1996), 9A1139
Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, AIAA J 34(4) 683-690 (Apr 1996), 9A1141
Interpolation perturbation method for solving the boundary layer type problems, Appl Math Mech 17(1) 91-98 (Jan 1996), 9A1142

Numerical methods in the theory of boundary-layer inviscid flow interaction, TsAGI 1(1) 25-54 (1994), 10A1144
Analysis of calculation data with the use of the model of internal heat-releasing boundary layers and the resistance of tubes with circular lateral bulges, Russian Aeronaut 38(3) 102-105 (1995), 11A955
Practical approximate turbulent boundary layer calculation into the divergent rectangular channel, Z Angew Math Mech 76(6) 321-335 (1996), 12A1098

362Z. Experimental techniques

Experimental testing of diffusion models in a manipulated turbulent boundary layer, AIAA J 33(9) 1597-1603 (Sep 1995), 2A939
Simple method to remove the boundary layer on a ground plate, Papers Ship Res Inst 32(2) 3-26 (1995), 3A947
Proposed intermittency measurement method for transitional boundary layer flows, Exp Fluids 19(6) 426-428 (Oct 1995), 4A1023
Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, Exp Fluids 19(6) 405-416 (Oct 1995), 4A1076
Measurement of transitional boundary layer on a flat plate using a computational Preston tube method, Exp Fluids 20(1) 29-37 (Nov 1995), 5A928
Shear-stress-sensitive liquid crystals for hypersonic boundary-layer transition detection, J Spacecraft Rockets 32(5) 749-757 (Oct 1995), 5A929
Reduction of fluctuating pressure loads in shock-boundary-layer interactions using vortex generators - Part 2, AIAA J 34(1) 195-197 (Jan 1996), 6T951
Numerical near-wall corrections of single hot-wire measurements, Int J Heat Fluid Flow 16(6) 471-476 (Dec 1995), 6A1106
Vortical cord-shock interference in free-flow and nonisoheric jets, TsAGI 1(2) 85-101 (1994), 10A1138
Investigation of intermittency measurement methods for transitional boundary layer flows, Exp Thermal Fluid Sci 12(4) 433-443 (May 1996), 10T1140
Unsteady measurements near leading edge of separated flow, JSME Int J Ser B 39(2) 354-360 (May 1996), 11A951
Hypersonic nozzle-afterbody experiment: Flow visualization and boundary-layer measurements, J Spacecraft Rockets 33(3) 326-332 (Jun 1996), 12A1073
Methods for visualizing hypersonic shock-wave and boundary-layer interaction using electrical discharges, AIAA J 34(7) 1464-1467 (Jul 1996), 12A1105

364. INTERNAL FLOW (PIPE, CHANNEL, COUETTE)

364B. Laminar flow

Viscous flow in axisymmetric pipes with slow variations, Comput Fluids 24(6) 685-717 (Jul 1995), 1A1052
Hydrodynamics of a contact device with a spiral ribbon, Thermophys and Aeromech 2(1) 9-14 (1995), 2T955
Peristaltic transport of two immiscible viscous fluids in a circular tube, J Fluid Mech 298 271-285 (Sep 1995), 2A956
Analytical solution to the viscous flows in curved duct with inlet swirl, JSME Int J Ser B 38(4) 532-540 (Nov 1995), 4A1036
Modeling of fully-developed, liquid metal, thin film flows for fusion diverter applications, Fusion Eng Des 30(4) 339-356 (Nov 1995), 4A1037
Transient properties of a developing laminar disturbance in pipe Poiseuille flow, Eur J Mech B 14(5) 601-615 (1995), 4A1038
Computation of Stokes flow in a channel with a collapsible segment, J Fluids Struct 9(8) 885-905 (Nov 1995), 5A941
Parallel pipelining, J Fluids Eng 117(3) 446-449 (Sep 1995), 5A942
Collocated diffuse approximation method for 2D incompressible channel flows, Mech Res Commun 23(1) 61-66 (Feb 1996), 7T1067
Flow in an annular-conical passage, JSME Int J Ser B 39(1) 66-71 (Feb 1996), 7A1100
Nonlinear solutions of modified plane Couette flow in the presence of a transverse magnetic field, J Fluid Mech 307 231-243 (Jan 1996), 7A1142
Bifurcations of incompressible flow through plane symmetric channel expansions, Comput Fluids 25(3) 335-351 (Mar 1996), 9A1147
Laminar fluid flow in a planar 90° bifurcation with and without a protruding branching duct, J Fluids Eng 118(1) 81-84 (Mar 1996), 9A1148
Flow over an obstacle emerging from the wall of a channel, AIAA J 34(5) 924-931 (May 1996), 10A1150
Viscous flow in curved pipes of non-uniform cross-section, Int J Numer Methods Fluids 22(8) 771-798 (Apr 1996), 10A1151
Laminar flow heat transfer in a cylinder with circumferential tubes, Trans Can Soc Mech Eng 20(1) 57-73 (1996), 10A1257
Arbitrary squeezing of a viscous fluid between elliptic plates, Fluid Dyn Res 18(1) 35-51 (Jun 1996), 11A877
Effect of the annular arrangement on the steady Poiseuille flow, Acta Tech CSAV 41(1) 51-55 (1996), 11A956
Friction coefficient of a fully-developed laminar reciprocating flow in a circular pipe, Int J Heat Fluid Flow 17(2) 167-172 (Apr 1996), 11A957
Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, Int J Numer Methods Fluids 22(12) 1169-1187 (Jun 1996), 12A1112
Slip flow over rough wavy wall, Z Angew Math Mech 76(6) 363-364 (1996), 12T1113
Friction factor in sino-pipe flow, J Fluids Eng 118(2) 341-345 (Jun 1996), 12A1121

364C. Turbulent flow

Compound-channel flows: A parametric study using a Reynolds-stress transport closure, J Hydraul Res 33(3) 307-320 (1995), 1T1053
Numerical simulation of complicated pipe flow with k-ε model, Appl Math Mech 16(6) 603-606 (Jun 1995), 1A1054
Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, Appl Sci Res 55(1) 63-82 (Jul 1995), 3A943
Fully developed turbulent flow and the friction law in pipes via asymptotic matching (Russian), Glas Tech Series 31 129-146 (1995), 3A948
Bed-shear stress in non-uniform and unsteady open-channel flows, J Hydraul Res 33(5) 699-704 (1995), 4T916
Direct numerical simulation of a turbulent flow in a channel having periodic pressure gradient, Int J Heat Fluid Flow 16(5) 333-340 (Oct 1995), 5A939
Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, J Fluids Eng 117(3) 417-423 (Sep 1995), 5A969
Numerical analysis of developing turbulent structure in a trapezoidal open channel flow by using Reynolds stress model (Japanese), Proc JSCE 527(II-33) 27-36 (Nov 1995), 6A957
Prediciton of turbulent flows in dredged trenches, J Hydraul Res 33(6) 813-824 (1995), 7T1101
Velocity and turbulence distribution in unsteady open-channel flows, J Hydraul Eng 122(3) 141-154 (Mar 1996), 8T873
Pipe flow of a thixotropic liquid, J Non-Newtonian Fluid Mech 62(2-3) 291-306 (Feb 1996), 8A949
Multiple-time-scale turbulence model computations of flow over a square rib, AIAA J 34(3) 626-629 (Mar 1996), 8T951
Mixing in T-junctions, Appl Math Model 20(3) 232-243 (Mar 1996), 9A1143
Response of turbulent flow to abrupt changes in surface roughness and its relevance in horizontal annular flow, Appl Math Model 20(3) 244-251 (Mar 1996), 9A1146
Wall suction effects on the structure of fully-developed turbulent pipe flow, J Fluids Eng 118(1) 33-39 (Mar 1996), 9A1151
Calculations of wall shear stress in harmonically-oscillated turbulent pipe flow using a low-Reynolds-number k-ε, J Fluids Eng 118(1) 189-194 (Mar 1996), 9A1186
Turbulent coherent structures in the near wall region of open channel flows, Ingeniería Hidraul Mex 11(1) 5-13 (Apr 1996), 10T1056
Turbulent incompressible flow within a channel with transpiration - Solution of the coupled problem porous wall: Main flow, J Brazilian Soc Mech Sci 18(1) 88-96 (Mar 1996), 10A1145
Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, Exp Fluids 20(6) 417-428 (Apr 1996), 10A1146
Numerical study of turbulent swirling flow in combustor, Chinese J Aeronaut 9(1) 6-12 (Feb 1996), 10A1372
Low Reynolds number fully developed 2D turbulent channel flow with system rotation, J Fluid Mech 315 1-29 (May 1996), 11A960
Prediction of the single-phase turbulent mixing rate between two parallel subchannels using a subchannel geometry factor, Nucl Eng Des 162(2-3) 245-256 (Apr 1996), 11A1423
Application of chaos theory in identification of two-phase flow patterns and transitions in a small, horizontal rectangular channel, J Fluids Eng 118(2) 383-390 (Jun 1996), 12A108
Wall shear stress in accelerating and decelerating turbulent pipe flows, J Hydraul Res 34(2) 173-183 (1996), 12T1017
Gas-liquid bubbly flow in vertical pipes, J Fluids Eng 118(2) 377-382 (Jun 1996), 12A1087
Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, Int J Numer Methods Fluids 22(12) 1169-1187 (Jun 1996), 12A1112
Operator-splitting computation of turbulent flow in an axisymmetric 180° narrowing bend using several k-ε models and wall functions, Int J Numer Methods Fluids 22(12) 1189-1205 (Jun 1996), 12A1114
Secondary flow in weakly rotating turbulent plane Couette flow, J Fluid Mech 317 195-214 (Jun 1996), 12A1115
Friction factor in sine-pipe flow, J Fluids Eng 118(2) 341-345 (Jun 1996), 12A1121
Large-Eddy simulation of turbulent flow in a curved pipe, J Fluids Eng 118(2) 248-254 (Jun 1996), 12A1122

364D. Transition and relaminarization

Transient properties of a developing laminar disturbance in pipe Poiseuille flow, Eur J Mech B 14(5) 601-615 (1995), 4A1038
Receptivity of pipe Poiseuille flow, J Fluid Mech 315 119-137 (May 1996), 11A952
Laminar-turbulent transition in a bayonet tube, Int J Heat Fluid Flow 17(2) 102-107 (Apr 1996), 11A958
Sources of error in eigenvalue spectra for pipe-Poiseuille flows, J Fluids Eng 118(2) 414-416 (Jun 1996), 12T1139

364E. Unsteady flow

Effect of the magnetic field on the pulsatile flow through a rigid tube, Appl Math Mech 16(6) 521-532 (Jun 1995), 1A1055
Numerical study of pulsating flow behind a constriction, J Fluid Mech 301 203-223 (Oct 1995), 4A1039
Three dimensional viscous flows between concentric cylinders executing axially variable oscillations: A hybrid spectral-finite difference solution, J Appl Mech 62(3) 667-673 (Sep 1995), 5A940
Laminar pulsatile two-phase non-Newtonian flow through a pipe, Comput Fluids 25(1) 77-93 (Jan 1996), 6A947
Transmission line modeling of simulated drill strings undergoing water-hammer, Proc Inst Mech Eng C 209(C6) 419-427 (1995), 7A285
Enhanced axial dispersion in oscillating pipe flow with different solute concentrations at its ends, J Fluids Eng 118(1) 160-165 (Mar 1996), 9A1144
Unsteady tube flow over an expansion, J Fluid Mech 310 89-111 (Mar 1996), 9A1150
Dispersion in oscillatory channel flow with coupled transverse wall motion, Eur J Mech B 15(2) 143-156 (1996), 10A1147
Flow over an obstacle emerging from the wall of a channel, AIAA J 34(5) 924-931 (May 1996), 10A1150
Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, Int J Numer Methods Fluids 22(12) 1169-1187 (Jun 1996), 12A1112
Optimum disposition of assembled piping system for parallel operation of multiple compressors, Int J Pressure Vessels Piping 68(2) 145-151 (1996), 12A1116

364G. Nonequilibrium and chemical effects

Nonequilibrium reactive flows through convergent-divergent nozzle by the method of characteristics (Spanish), J Brazilian Soc Mech Sci 16(4) 384-392 (1994), 3A949
Newton-Krylov methods for low-Mach-number compressible combustion, AIAA J 34(5) 961-967 (May 1996), 10A1380

364H. Creeping flow

Two models of fluid flow and mass transfer at the trailing edge of a gas slug, Int J Heat Mass Transfer 38(18) 3341-3347 (Dec 1995), 2A957

364I. Swirling flow

Hydrodynamics of a contact device with a spiral ribbon, Thermophys and Aeromech 2(1) 9-14 (1995), 2T955
Bifurcation of swirl in liquid cones, J Fluid Mech 300 169-205 (Oct 1995), 1A117
Analytical solution to the viscous flows in curved duct with inlet swirl, JSME Int J Ser B 38(4) 532-540 (Nov 1995), 4A1036
Comparison of coupled and segregated iterative solution techniques for incompressible swirling flow, Int J Numer Methods Fluids 22(5) 353-373 (Mar 1996), 8A950
Modification of the k-ε turbulence model for swirling recirculating flow in a pipe expansion, Int J Comput Fluid Dyn 5(3-4) 263-279 (1995), 9A1145
Stability of confined swirling flow with and without vortex breakdown, J Fluid Mech 311 1-36 (Mar 1996), 9A1176
Swirling flows in circular to rectangular transition ducts, Exp Fluids 20(6) 401-409 (Apr 1996), 10A1148
Study of swirl velocity decaying by cementing turbulators and its application (Chinese), J Dalian Univ Tech 36(3) 334-338 (May 1996), 11A959

364J. Stratified flow

Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids, Appl Mech Rev 48(11) 763-776 (Nov 1995), 1A996

364K. Rotating fluids or surfaces

Analogy between turbulent flows in curved pipes and orthogonally rotating pipes, J Fluid Mech 307 1-10 (Jan 1996), 7A1103
Low Reynolds number fully developed 2D turbulent channel flow with system rotation, J Fluid Mech 315 1-29 (May 1996), 11A960
Secondary flow in weakly rotating turbulent plane Couette flow, J Fluid Mech 317 195-214 (Jun 1996), 12A1115

364L. Heat addition

Experimental investigation of countercurrent liquid-vapor interactions and their effect on the friction factor, Exp Thermal Fluid Sci 12(1) 25-32 (Jan 1996), 6T944
Effect of branch orientation on annular two-phase flow in T-junctions, J Fluids Eng 118(1) 166-171 (Mar 1996), 9A1125
Enhanced axial dispersion in oscillating pipe flow with different solute concentrations at its ends, J Fluids Eng 118(1) 160-165 (Mar 1996), 9A1144
Unsteady flow and heat transfer in a channel with a built-in tandem of rectangular cylinders, Numer Heat Transfer A 29(6) 613-623 (May 1996), 11A1148
Flow of liquid in the open rectangular groove on the heat-pipe evaporator with an account for the oncoming vapor stream influence, Russian Aeronaut 38(3) 99-101 (1995), 11A1180

364M. Non-Newtonian flow

Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, J Non-Newtonian Fluid Mech 59(2-3) 191-213 (Sep 1995), 2A958
Pulsatile magnetohydrodynamic viscoelastic flow through a channel bounded by two permeable parallel plates, J Phys Soc Japan 64(11) 4163-4174 (Nov 1995), 4A1095
Flow of Eringen fluid (simple microfluid) through an artery with mild stenosis, Int J Eng Sci 34(1) 87-99 (Jan 1996), 5A1387
General second order fluid flow in a pipe, Appl Math Mech 16(9) 825-831 (Sep 1995), 6A958
Flow of Oldroyd-B fluids in curved pipes of circular and annular cross-section, Int J Non-Linear Mech 31(1) 1-20 (Jan 1996), 8A861
Pipe flow of a thixotropic liquid, J Non-Newtonian Fluid Mech 62(2-3) 291-306 (Feb 1996), 8A949
Wall effects for a sphere falling in a non-Newtonian fluid, J Brazilian Soc Mech Sci 18(1) 97-102 (Mar 1996), 10A1149
Initial-value problems with inflow boundaries for Maxwell fluids, SIAM J Math Anal 27(4) 914-931 (Jul 1996), 12A1117
Secondary flow of entangled polymer fluids in plane Couette flow, J Rheol 40(4) 549-571 (Aug 1996), 12A1118

364N. Roughness effect

Response of turbulent flow to abrupt changes in surface roughness and its relevance in horizontal annular flow, Appl Math Model 20(3) 244-251 (Mar 1996), 9A1146
Slip flow over rough wavy wall, Z Angew Math Mech 76(6) 363-364 (1996), 12T1113
Pressure drop in corrugated pipes, J Fluids Eng 118(2) 409-410 (Jun 1996), 12A1119

364O. Porous walls

Analytical study on predicting pore water pressure occuring in concrete and its effects (Japanese), Proc JSCE 526(II) 29-41 (Nov 1995), 6A959

Analytic resolutions and applications of the nonlinear seepage flow equations of coal infusion, Appl Math Mech 16(11) 1065-1072 (Nov 1995), 7A1102
Survey of Test Methods in Fluid Filtration (Gulf Publ, Houston, 1995) 8R26

364P. Obstructions

Individual Papers in Fluids Engineering - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N31
Identification of flow separation and vortices in internal periodic flows, Int J Numer Methods Fluids 21(4) 323-335 (Aug 1995), 1A1056
Peristaltic transport of two immiscible viscous fluids in a circular tube, J Fluid Mech 298 271-285 (Sep 1995), 2A956
Hidrodynamics in tubes with curvilinear obstructions (Spanish), J Brazilian Soc Mech Sci 16(4) 407-414 (1994), 3A950
Numerical study of pulsating flow behind a constriction, J Fluid Mech 301 203-223 (Oct 1995), 4A1039
Computation of Stokes flow in a channel with a collapsible segment, J Fluids Struct 9(8) 885-905 (Nov 1995), 5A941
Parallel pipelining, J Fluids Eng 117(3) 446-449 (Sep 1995), 5A942
Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, J Flow Visualization Image Proc 2(2) 135-147 (1995), 5T943
Experimental investigation of flow in an annular-conical passage, J Flow Visualization Image Proc 2(2) 113-123 (1995), 5A944
Tilt of stationary capsule in pipe, J Hydraul Eng 122(2) 90-96 (Feb 1996), 6T942
Multiple-time-scale turbulence model computations of flow over a square rib, AIAA J 34(3) 626-629 (Mar 1996), 8T951
Numerical investigation of laminar flows through 90-degree diversions of rectangular cross-section, Comput Fluids 25(2) 95-118 (Feb 1996), 8A952
Bifurcations of incompressible flow through plane symmetric channel expansions, Comput Fluids 25(3) 335-351 (Mar 1996), 9A1147
Laminar fluid flow in a planar 90° bifurcation with and without a protruding branching duct, J Fluids Eng 118(1) 81-84 (Mar 1996), 9A1148
Shearing flow near a bypass with a ball in it, Appl Math Mech 17(1) 25-28 (Jan 1996), 9A1149
Unsteady tube flow over an expansion, J Fluid Mech 310 89-111 (Mar 1996), 9A1150
Flow over an obstacle emerging from the wall of a channel, AIAA J 34(5) 924-931 (May 1996), 10A1150
Viscous flow in curved pipes of non-uniform cross-section, Int J Numer Methods Fluids 22(8) 771-798 (Apr 1996), 10A1151
Study of swirl velocity decaying by cementing turbulators and its application (Chinese), J Dalian Univ Tech 36(3) 334-338 (May 1996), 11A959
Study of swirl velocity decaying by cementing turbulators and its application (Chinese), J Dalian Univ Tech 36(3) 334-338 (May 1996), 11A959
Numerical simulation of unsteady flow in a 2D collapsible channel, J Fluid Mech 314 191-225 (May 1996), 11A961

364R. Secondary flow, effects of curvature

Effect of torsion on the bifurcation structure of laminar flow in a helical square duct, J Fluids Eng 117(2) 242-248 (Jun 1995), 1A1057
Evolution of initially uniform shear flow through a nearly 2D 90° curved duct, Exp Fluids 19(3) 173-187 (Jul 1995), 1T1058
Experimental study of the flow in a helical circular tube, Fluid Dyn Res 16(4) 237-249 (Sep 1995), 1A1059
Flow visualization and LDV measurements of laminar flow in a helical square duct with finite pitch, Exp Thermal Fluid Sci 11(4) 348-363 (Nov 1995), 4T1040
Flow in an annular-conical passage, JSME Int J Ser B 39(1) 66-71 (Feb 1996), 7A1100
Analogy between turbulent flows in curved pipes and orthogonally rotating pipes, J Fluid Mech 307 1-10 (Jan 1996), 7A1103
Comparison of Baldwin-Lomax turbulence models for 2D open-cavity computations, AIAA J 34(3) 629-631 (Mar 1996), 8T964
Existence criterion for secondary flows in elliptic pipes for viscoelastic third grade fluids, Mec Appl 40(2-3) 145-160 (Jun 1995), 11A962
First- and higher-order effects of curvature and torsion on the flow in a helical rectangular duct, J Fluid Mech 314 113-138 (May 1996), 11A963
Instability and transitions of flow in a curved square duct: The development of two pairs of Dean vortices, J Fluid Mech 314 227-246 (May 1996), 11A964
Secondary flow in weakly rotating turbulent plane Couette flow, J Fluid Mech 317 195-214 (Jun 1996), 12A1115
Development of a 2D turbulent wake in a curved channel with a positive streamwise pressure gradient, J Fluids Eng 118(2) 292-299 (Jun 1996), 12A1120
Friction factor in sine-pipe flow, J Fluids Eng 118(2) 341-345 (Jun 1996), 12A1121
Large-Eddy simulation of turbulent flow in a curved pipe, J Fluids Eng 118(2) 248-254 (Jun 1996), 12A1122
Steady flow in a curved pipe with a coaxial core, Int J Numer Methods Fluids 22(12) 1231-1237 (Jun 1996), 12A1123
Simple cases of the streamline-curvature instability in 3D boundary layers, J Fluid Mech 317 129-154 (Jun 1996), 12A1142

364T. Suction and injection

Effect of mass transfer on turbulent friction during condensation inside ducts, Int J Heat Mass Transfer 38(18) 3385-3392 (Dec 1995), 2A959
Experimental studies of laminar flow and heat transfer in a one-porous-wall square duct with wall injection, Int J Heat Mass Transfer 38(18) 3475-3484 (Dec 1995), 2A1086
Wall suction effects on the structure of fully-developed turbulent pipe flow, J Fluids Eng 118(1) 33-39 (Mar 1996), 9A1151
Turbulent incompressible flow within a channel with transpiration - Solution of the coupled problem porous wall: Main flow, J Brazilian Soc Mech Sci 18(1) 88-96 (Mar 1996), 10A1145

364Y. Computational techniques

Boundary element scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, J Sound Vib 185(1) 107-117 (Aug 1995), 1A293
Viscous flow in axisymmetric pipes with slow variations, Comput Fluids 24(6) 685-717 (Jul 1995), 1A1052
Identification of flow separation and vortices in internal periodic flows, Int J Numer Methods Fluids 21(4) 323-335 (Aug 1995), 1A1056
Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, J Non-Newtonian Fluid Mech 59(2-3) 191-213 (Sep 1995), 2A958
Velocity characteristics of steady flow through a straight generic inlet port, Int J Numer Methods Fluids 21(7) 571-590 (Oct 1995), 2A960
Nonequilibrium reactive flows through convergent-divergent nozzle by the method of characteristics (Spanish), J Brazilian Soc Mech Sci 16(4) 384-392 (1994), 3A949
Hidrodynamics in tubes with curvilinear obstructions (Spanish), J Brazilian Soc Mech Sci 16(4) 407-414 (1994), 3A950
Calculation of fully developed flows of complex fluids in pipes of arbitrary shape, using a mapped circular domain, Commun Numer Methods Eng 11(10) 813-820 (Oct 1995), 3A951
Flow visualization and LDV measurements of laminar flow in a helical square duct with finite pitch, Exp Thermal Fluid Sci 11(4) 348-363 (Nov 1995), 4T1040
Direct numerical simulation of a turbulent flow in a channel having periodic pressure gradient, Int J Heat Fluid Flow 16(5) 333-340 (Oct 1995), 5A939
Experimental investigation of flow in an annular-conical passage, J Flow Visualization Image Proc 2(2) 113-123 (1995), 5A944
Calculation of eigenvalues for the stationary perturbation of Couette-Poiseuille flow, Appl Math Mech 16(10) 985-994 (Oct 1995), 6A960
Comparison of coupled and segregated iterative solution techniques for incompressible swirling flow, Int J Numer Methods Fluids 22(5) 353-373 (Mar 1996), 8A950
Numerical investigation of laminar flows through 90-degree diversions of rectangular cross-section, Comput Fluids 25(2) 95-118 (Feb 1996), 8A952
Modification of the k-ε turbulence model for swirling recirculating flow in a pipe expansion, Int J Comput Fluid Dyn 5(3-4) 263-279 (1995), 9A1145
Optimal control of gas pipelines via infinite-dimensional analysis, Int J Numer Methods Fluids 22(9) 867-879 (May 1996), 10A413
Collocation and upwinding for thermal flow in pipelines: The linearized case, Int J Numer Methods Fluids 22(9) 835-849 (May 1996), 10A1152
Numerical simulation of unsteady flow in a 2D collapsible channel, J Fluid Mech 314 191-225 (May 1996), 11A961
Primitive variable implicit approach for compressible chemical vapor deposition, AIAA J 34(6) 1287-1289 (Jun 1996), 11T965
Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, Int J Numer Methods Fluids 22(12) 1169-1187 (Jun 1996), 12A1112
Steady flow in a curved pipe with a coaxial core, Int J Numer Methods Fluids 22(12) 1231-1237 (Jun 1996), 12A1123

364Z. Experimental techniques

Flow visualization and LDV measurements of laminar flow in a helical square duct with finite pitch, Exp Thermal Fluid Sci 11(4) 348-363 (Nov 1995), 4T1040
Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, J Flow Visualization Image Proc 2(2) 135-147 (1995), 5T943
Effect of inertia on flows in tubes with periodic step changes in diameter, Bull Polish Acad Sci Tech Sci 43(4) 445-458 (1995), 9A1152
Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, Exp Fluids 20(6) 417-428 (Apr 1996), 10A1146

366. INTERNAL FLOW (INLETS, NOZZLES, DIFFUSERS, CASCADES)

366B. Steady flow

Friction pressure drop of R-12 in small hydraulic diameter extruded aluminum tubes with and without micro-fins, Int J Heat Mass Transfer 39(4) 801-809 (Mar 1996), 5A914
Short nozzles for rocket engines, Russian Aeronaut 38(1) 74-77 (1995), 6A961
Experimental and numerical study of transonic turbine cascade flow, AIAA J 34(1) 104-109 (Jan 1996), 6A1026
Modeling of turbulent flow through intake systems of internal combustion engines: Large valve lifts, J Brazilian Soc Mech Sci 17(4) 373-379 (1995), 8A953
Multiple-timescale analysis of Taylor dispersion in converging and diverging flows, J Fluid Mech 311 343-359 (Mar 1996), 9A1153
Fluid flow in a skewed annulus, J Energy Resources Tech 118(2) 89-97 (Jun 1996), 12A1124

366C. Unsteady flow

Flutter stability of a detuned cascade in subsonic compressible flow, J Propulsion Power 11(5) 923-930 (Oct 1995), 2A961
Flow through a submerged nozzle, J Spacecraft Rockets 32(6) 986-992 (Dec 1995), 5A945
Computation of unsteady 3D transonic nozzle flows using k-ε turbulence closure, AIAA J 34(7) 1331-1340 (Jul 1996), 12A1127

366F. Swirling flow

Mixing of swirling jets in a supersonic duct flow, J Propulsion Power 12(1) 170-177 (Feb 1995), 6A962

366G. Secondary flow

Estimation of mixing of high-speed streams, J Propulsion Power 12(2) 429-431 (Apr 1996), 8A954
Mixing pressure-rise parameter for effect of nozzle geometry in diffuser-ejectors, J Propulsion Power 12(2) 431-433 (Apr 1996), 8A955

366H. Non-Newtonian flow

Turbulent expansion flow of low molecular weight shear-thinning solutions, Exp Fluids 20(1) 42-55 (Nov 1995), 5A965
Numerical study of the flow of a low-density-polyethylene melt in a planar contraction and comparison to experiments, J Rheol 40(1) 21-35 (Feb 1996), 6A907

366J. Separation and reattachment

Effect of acoustic excitation on flow over a partially grooved circular cylinder, Exp Fluids 19(3) 194-202 (Jul 1995), 1A1060
Fluid flow and heat transfer characteristics in axisymmetric annular diffusers, Comput Fluids 25(2) 133-150 (Feb 1996), 8A956

366K. Heat addition

Free expansion study of liquid nitrogen, J Thermophys Heat Transfer 9(3) 531-536 (Sep 1995), 1A1061
Multiple-timescale analysis of Taylor dispersion in converging and diverging flows, J Fluid Mech 311 343-359 (Mar 1996), 9A1153
Simulating heat addition via mass addition in variable area compressible flows, AIAA J 34(5) 1076-1078 (May 1996), 10T1153

366L. Suction and injection

Gas flow with mass injection in a tube at high Reynolds numbers of injected flow, Russian Aeronaut 38(1) 39-42 (1995), 6A963
Performance characterization of a highly offset diffuser with vortex generator jets, J Propulsion Power 12(2) 237-244 (Apr 1996), 8A957
Supersonic-inlet boundary-layer bleed flow, AIAA J 34(4) 778-785 (Apr 1996), 9A1154
Initial section of gas nozzle-burner flame with unsymmetrical boundary conditions, Russian Aeronaut 38(3) 37-41 (1995), 11A1268
Research on axial dispersion and other parameters of sample zone in FIA with zone circulating flow-injection analysis, Lab Robotics Autom 8(2) 111-119 (1996), 12T1125

366M. Obstructions

Effect of acoustic excitation on flow over a partially grooved circular cylinder, Exp Fluids 19(3) 194-202 (Jul 1995), 1A1060
Experimental and theoretical study of wide-angle diffuser flow with screens, AIAA J 33(11) 2092-2100 (Nov 1995), 4A1041
Structural parameters and prediction of adverse pressure gradient turbulent flows: An improved k-ε model, J Fluids Eng 117(3) 424-432 (Sep 1995), 5A946

366N. Performance and optimization

Dense gas flow in minimum length nozzles, J Fluids Eng 117(2) 270-276 (Jun 1995), 1A1062
Estimates for critical Mach number under isoperimetric constraints, European J Appl Math 6(5) 385-398 (Oct 1995), 4A986
Effects of body-side compression on forward-swept sidewall compression inlets, J Propulsion Power 11(6) 1242-1249 (Dec 1995), 4A1042
Pressure drop and flow characteristics of wide-angle screened diffusers of large area ratio, J Wind Eng Indust Aerodyn 58(1-2) 33-50 (Oct 1995), 4T1043
Transpiration cooling effects on nozzle heat transfer and performance, J Spacecraft Rockets 32(6) 981-985 (Dec 1995), 5A947
Constrained optimization of nacelle shapes in Euler flow using semianalytical sensitivity analysis, Struct Optim 10(3-4) 239-246 (Dec 1995), 6A964
Improving curved subsonic diffuser performance with vortex generators, AIAA J 34(1) 65-72 (Jan 1996), 6A965
Optimal shock wave parameters for supersonic inlets, J Propulsion Power 12(1) 202-205 (Feb 1995), 6A966
Design method for stator cascades with stream surface of revolution using natural coordinates, Inverse Prob Eng 2(2) 119-139 (1995), 8A958
Regression analysis of inlet port performance optimized in diesel engine (Chinese), J Dalian Univ Tech 35(5) 694-698 (Oct 1995), 8A1289
Jump phenomena in y-shaped intake ducts, J Aircraft 33(2) 438-439 (Apr 1996), 9T1155
Optimization of flow geometries applying quasianalytical sensitivity analysis, Appl Math Model 20(3) 214-224 (Mar 1996), 9A1156
Performance of a hypersonic twin-nozzle system, AIAA J 34(5) 953-960 (May 1996), 10A1154
Comparison of F/A-18A inlet flow analyses with flight data: Part 1, J Aircraft 33(3) 457-462 (Jun 1996), 11A966
Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, J Aircraft 33(3) 463-469 (Jun 1996), 11A967
New high supply pressure pneumatic flapper-nozzle with linear behavior, J Dyn Syst Meas Control 118(2) 259-266 (Jun 1996), 12A427
Effect of transpiration cooling on nozzle heat transfer, J Spacecraft Rockets 33(3) 453-455 (Jun 1996), 12T1126

366Y. Computational techniques

Velocity characteristics of steady flow through a straight generic inlet port, Int J Numer Methods Fluids 21(7) 571-590 (Oct 1995), 2A960

Simulation of overexpanded low density nozzle plume flow, AIAA J 33(9) 1646-1650 (Sep 1995), 2A962
Installed F/A-18A inlet flow calculations: A grid study, J Propulsion Power 11(6) 1250-1256 (Dec 1995), 4A1044
Two- and three-dimensional expansion flows, Comput Fluids 24(8) 863-882 (Nov 1995), 4A1045
Two-dimensional and axisymmetric nozzle flow computations using the Euler equations, J Brazilian Soc Mech Sci 17(2) 147-170 (1995), 4A1046
Numerical analysis of nozzle and afterbody flow of hypersonic transport systems, J Eng Gas Turbines Power 117(3) 389-393 (Jul 1995), 5A1036
Internal flowfield characteristics of a scramjet inlet at Mach 10, J Propulsion Power 12(1) 158-164 (Feb 1995), 6A1210
Grid-resolved analysis of base flowfield for four-engine clustered nozzle configuration, J Spacecraft Rockets 33(1) 22-29 (Feb 1996), 7A1104
Optimization of flow geometries applying quasianalytical sensitivity analysis, Appl Math Model 20(3) 214-224 (Mar 1996), 9A1156
Simulating heat addition via mass addition in variable area compressible flows, AIAA J 34(5) 1076-1078 (May 1996), 10T1153
Computational environment for exhaust nozzle design, J Aircraft 33(3) 470-476 (Jun 1996), 11A968
Computation of unsteady 3D transonic nozzle flows using k-e turbulence closure, AIAA J 34(7) 1331-1340 (Jul 1996), 12A1127
Investigation of the mixing flow structure in multilobe mixers, AIAA J 34(7) 1386-1391 (Jul 1996), 12A1128

366Z. Experimental techniques

Inlet acoustic mode measurements using a continuously rotating rake, J Aircraft 32(4) 761-767 (Aug 1995), 1A362
Experimental and theoretical study of wide-angle diffuser flow with screens, AIAA J 33(11) 2092-2100 (Nov 1995), 4A1041
Experimental study on mixing enhancement by petal nozzle in supersonic flow, J Propulsion Power 12(1) 165-169 (Feb 1995), 6A967
Complete 3D multiparameter mapping of a supersonic ramp fuel injector flowfield, AIAA J 34(3) 455-462 (Mar 1996), 8A959
Direct measurement of skin friction in a turbine cascade, J Propulsion Power 12(2) 245-249 (Apr 1996), 8A960
Fluorescence velocity measurements in the interior of a hydrogen arcjet nozzle, AIAA J 34(4) 853-855 (Apr 1996), 9T1251

368. FREE SHEAR LAYERS (MIXING LAYERS, JETS, WAKES, CAVITIES, PLUMES)

368B. Laminar incompressible

New mechanism of small-scale transition in a plane mixing layer: Core dynamics of spanwise vortices, J Fluid Mech 298 23-80 (Sep 1995), 2A868
Viscous oscillatory flow about a circular cylinder at small to moderate Stroukal number, J Fluid Mech 303 215-232 (Nov 1995), 4A1047
Theoretical study of a laminar jet in a double-diffusion environment, J Fluids Eng 117(3) 341-346 (Sep 1995), 5A948
Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, Atomization and Sprays 5(2) 175-196 (Apr 1995), 5T952
Model for separated laminar flow over a wavy boundary with sharp crests, Math Eng Industry 5(3) 211-234 (1995), 5A1340
Bluff body wakes with free, fixed, and discontinuous separation at low Reynolds numbers and low aspect ratio, Exp Fluids 20(3) 189-198 (Jan 1996), 7A1105
Vortex wakes and jets, Exp Thermal Fluid Sci 12(2) 112-270 (Feb 1996), 7A1106
Global characteristics of jet impact, J Fluid Mech 307 63-84 (Jan 1996), 7A1111
Dynamical characterization of the spatiotemporal structures in the wake of a bluff body, J Fluids Struct 10(1) 21-31 (Jan 1996), 8A961
Hysteresis in swirling jets, J Fluid Mech 309 1-44 (Feb 1996), 8A962
Symmetrical flow past an accelerated circular cylinder, J Fluid Mech 308 97-110 (Feb 1996), 8A963
Temporal evolution of 3D vortex breakdown from steady, axisymmetric solutions, AIAA J 34(3) 632-634 (Mar 1996), 8T972
Note on a vertical water-jet emanating downwards from a slit in the air, Acta Mech 115(1-4) 239-245 (1996), 9A1157
Skewed shear-layer mixing within a duct, AIAA J 34(4) 847-849 (Apr 1996), 9T1158
Transitions to chaos in a forced jet: Intermittency, tangent bifurcations, and hysteresis, J Fluid Mech 311 37-71 (Mar 1996), 9A1159
Vortex shedding from bluff bodies with splitter plates, J Fluids Struct 10(2) 147-158 (Feb 1996), 9A1160
Breakdown of an axisymmetric laminar wake, TsAGI 1(2) 61-84 (1994), 10A1155
Three-dimensional vortex structures in a cylinder wake, J Fluid Mech 312 201-222 (Apr 1996), 10A1156
Two-dimensional spatially developing mixing layers, Numer Heat Transfer A 29(5) 485-509 (Apr 1996), 10A1157
Nonlinear oscillator model for vortex shedding from cylinders and cones in uniform and shear flows, J Fluids Struct 10(3) 197-214 (Apr 1996), 11A969
Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, JSME Int J Ser B 39(2) 335-342 (May 1996), 11A970
Interactions of two jets in a channel: Solution multiplicity and linear stability, J Fluid Mech 313 55-82 (Apr 1996), 11A976
Active resonant triad of mixed modes in symmetric shear flows: A plane wake as a paradigm, J Fluid Mech 317 337-368 (Jun 1996), 12A1143

368C. Laminar compressible

Experimental study of a laminar jet in a double-diffusion environment, J Fluids Eng 117(3) 347-354 (Sep 1995), 5A949
Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, Atomization and Sprays 5(2) 175-196 (Apr 1995), 5T952
Vortex wakes and jets, Exp Thermal Fluid Sci 12(2) 112-270 (Feb 1996), 7A1106
Flow fields of interacting parallel supersonic free jets, JSME Int J Ser B 39(1) 95-100 (Feb 1996), 7T1114
Resonant interaction of a linear array of supersonic rectangular jets: An experimental study, J Fluid Mech 309 93-111 (Feb 1996), 8A917
Effects of turbulence and unsteadiness on vortex shedding from sharp-edged bluff bodies, J Fluids Eng 118(1) 18-25 (Mar 1996), 9A1161
Mechanism of self-oscillatory interaction of plane subsonic jet with acoustic resonator, Exp Thermal Fluid Sci 12(4) 388-398 (May 1996), 10T1158
Numerical simulations of flow modification of supersonic rectangular jets, AIAA J 34(5) 902-908 (May 1996), 10A1163
Nonlinear oscillator model for vortex shedding from cylinders and cones in uniform and shear flows, J Fluids Struct 10(3) 197-214 (Apr 1996), 11A969

368D. Turbulent incompressible

Particle motion in the stagnation zone of an impinging air jet, J Fluid Mech 299 333-366 (Sep 1995), 2A923
Wavelet analysis for the plane turbulent jet: Analysis of large eddy structure, JSME Int J Ser B 38(4) 525-531 (Nov 1995), 4T1048
Large-eddy simulation of turbulent heat transport in enclosed impinging jets, Int J Heat Fluid Flow 16(5) 349-356 (Oct 1995), 5A950
Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, J Wind Eng Indust Aerodyn 58(3) 217-229 (Dec 1995), 5T951
Comparative evaluation of different turbulence models for confined impinging and opposing jet flows, Numer Heat Transfer A 28(6) 647-666 (Dec 1995), 5A1138
Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, J Fluid Mech 304 285-319 (Dec 1995), 6A968
Near-field study of a turbulent freejet and velocity bias effects, J Propulsion Power 12(1) 155-157 (Feb 1995), 6A969
Modeling of mixing by turbulent jet in stably stratified fluid, J Hydraul Eng 121(12) 853-862 (Dec 1995), 6A971
Vortex wakes and jets, Exp Thermal Fluid Sci 12(2) 112-270 (Feb 1996), 7A1106
Calculation of whole field for vertical round buoyant jets in static linearly stratified environment, J Hydraul Res 33(6) 865-876 (1995), 7A1107
Influence of co-swirl on the flow development of co-axial jets in a dump confinement, Arab J Sci Eng 20(4A) 661-675 (Oct 1995), 7A1108
Experimental study of round jets in cross-flow, J Fluid Mech 306 111-144 (Jan 1996), 7A1113
Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, Mech Res Commun 23(1) 91-102 (Feb 1996), 7T1115
Comparison of Baldwin-Lomax turbulence models for 2D open-cavity computations, AIAA J 34(3) 629-631 (Mar 1996), 8T964
Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, Exp Fluids 20(4) 279-290 (Feb 1996), 8A965
Experimental and theoretical study of the turbulent coflowing jet, J Fluid Mech 309 157-182 (Feb 1996), 8A970
Measurements of scalar power spectra in high Schmidt number turbulent jets, J Fluid Mech 308 129-146 (Feb 1996), 8A979
Evolution of a jet with vortex-generating tabs: Real-time visualization and quantitative measurements, J Fluid Mech 311 73-118 (Mar 1996), 9A1162
Effects of excitation on the coherent and random motion in a plane wall jet, J Fluid Mech 310 1-37 (Mar 1996), 9A1164
Flows generated by the impingement of a jet on a rotating surface - Part I: Basic flow patterns, J Fluids Eng 118(1) 61-67 (Mar 1996), 9A1165
Flows generated by the impingement of a jet on a rotating surface - Part II: Detailed flow structure and analysis, J Fluids Eng 118(1) 68-73 (Mar 1996), 9A1166
Vorticity characteristics of the turbulent intermediate wake, Exp Fluids 20(5) 383-392 (Mar 1996), 9A1182
Numerical simulation of particle concentration at the exit of a direct injected abrasive waterjet nozzle, Particulate Sci Tech 14(1) 75-88 (Mar 1996), 10A1123
Three-dimensional vortex structures in a cylinder wake, J Fluid Mech 312 201-222 (Apr 1996), 10A1156
Simulation of vortex diffusion effects on jet turbulence characteristics, TsAGI 1(3) 37-50 (1994), 10A1159
Velocity field of the turbulent very near wake of a circular cylinder, Exp Fluids 20(6) 441-453 (Apr 1996), 10A1160
Flopping phenomenon of flow behind two plates placed side-by-side normal to the flow direction, Fluid Dyn Res 17(6) 311-328 (May 1996), 10A1164
Measurements of the structure of self-preserving round buoyant turbulent plumes, J Heat Transfer 118(2) 493-495 (May 1996), 11T971
Near field characteristics of circular jets at low Reynolds numbers, Mech Res Commun 23(3) 313-324 (Jun 1996), 11A972
What can linear instability theory say about plasma plume dynamics, Acta Tech CSAV 41(1) 97-110 (1996), 11A973
Investigation of the mixing flow structure in multilobe mixers, AIAA J 34(7) 1386-1391 (Jul 1996), 12A1128
Axis switching and spreading of an asymmetric jet: The role of coherent structure dynamics, J Fluid Mech 316 1-27 (Jun 1996), 12A1129
Concentration measurements in a self-excited jet, Exp Fluids 21(2) 103-109 (Jun 1996), 12A1130
Turbulent incompressible jet in a curved coflow, J Fluids Eng 118(2) 300-306 (Jun 1996), 12A1136

368E. Turbulent compressible

Measurements of compressible turbulent flow structure in a supersonic mixing layer, AIAA J 33(11) 2101-2106 (Nov 1995), 4A1049
Compressibility effects and mixing enhancement in turbulent free shear flows, AIAA J 33(12) 2332-2338 (Dec 1995), 4A1074
Numerical simulation of mixing for turbulent slot injection, AIAA J 34(1) 73-78 (Jan 1996), 6A970
Vortex wakes and jets, Exp Thermal Fluid Sci 12(2) 112-270 (Feb 1996), 7A1106
Computation of turbulent axisymmetric and nonaxisymmetric jet flows using the K-e model, AIAA J 34(2) 309-316 (Feb 1996), 7A1109
Free shear-layer interaction with an expansion-compression wave pair, AIAA J 34(3) 565-571 (Mar 1996), 8A966
Correlation of acoustic pressures induced by a turbulent wake on a nearby wall, Acustica 82(1) 9-17 (Feb 1996), 9A344
Experimental study of compressible countercurrent turbulent shear layer, AIAA J 34(4) 728-735 (Apr 1996), 9A1163

368F. Stratification

Experimental study of a jet with local buoyancy enhancement, Fluid Dyn Res 16(4) 189-202 (Sep 1995), 1A1063
Large scale planar laser induced fluorescence in turbulent density-stratified flows, Exp Fluids 19(5) 297-304 (Sep 1995), 3A952
Plumes with non-monotonic mixing behavior, Geophys Astrophys Fluid Dyn 79(1-4) 173-199 (Aug 1995), 3A953
Numerical model for sea outfall hydraulics, J Hydraul Eng 122(2) 82-89 (Feb 1996), 6A892
Modeling of mixing by turbulent jet in stably stratified fluid, J Hydraul Eng 121(12) 853-862 (Dec 1995), 6A971
General integral formulation of turbulent buoyant jets in cross-flow, J Hydraul Eng 122(1) 27-34 (Jan 1996), 6A976
Calculation of whole field for vertical round buoyant jets in static linearly stratified environment, J Hydraul Res 33(6) 865-876 (1995), 7A1107
Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, Exp Fluids 20(4) 279-290 (Feb 1996), 8A965
Laboratory studies of a round, negatively buoyant jet discharged horizontally into a rotating homogeneous fluid, Fluid Dyn Res 17(5) 237-274 (Apr 1996), 8A967
Turbulence, similarity scaling, and vortex geometry in the wake of a towed sphere in a stably stratified fluid, J Fluid Mech 314 53-103 (May 1996), 11A974

368H. Rotating fluids or surfaces

Laboratory studies of a round, negatively buoyant jet discharged horizontally into a rotating homogeneous fluid, Fluid Dyn Res 17(5) 237-274 (Apr 1996), 8A967
Recirculation zones of unconfined and confined annular swirling jets, AIAA J 34(3) 572-579 (Mar 1996), 8A968
Vibrations of an infinitely long flowing liquid jet: Influence of spin and axial flow, Forschung Ingenieur 62(5) 116-128 (May 1996), 12A1131

368I. Jet-solid surface interaction

Finite aspect ratio effects on vortex shedding behind two cylinders at angles of incidence, J Fluids Eng 117(2) 219-226 (Jun 1995), 1A1064
Near-wake of a circular cylinder: Control by steady and unsteady surface injection, J Fluids Struct 9(6) 659-669 (Aug 1995), 1A1065
High-Speed Jet Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N40
Pressure-impulse theory for liquid impact problems, J Fluid Mech 297 193-214 (Aug 1995), 2A930
Computational modeling of 3D impinging jets with and without cross-flow using second-moment closure, Comput Fluids 24(7) 811-832 (Sep 1995), 2A963
Mixing region of circular turbulent wall jets in cross flows, J Hydraul Eng 121(10) 694-698 (Oct 1995), 2T964
Axisymmetric oscillations of an opposing jet from a hemispherical nose, AIAA J 33(10) 1850-1856 (Oct 1995), 3A954
Impact of two bodies one of which is covered by a thin layer of liquid, J Fluid Mech 300 43-58 (Oct 1995), 4A1050
Deformation process of a water droplet impinging on a solid surface, J Fluids Eng 117(3) 394-401 (Sep 1995), 5A918
Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, J Wind Eng Indust Aerodyn 58(3) 217-229 (Dec 1995), 5T951
Interaction of flow structures within bistable flow behind two circular cylinders of different diameters, Exp Thermal Fluid Sci 12(1) 33-44 (Jan 1996), 6A972
Study and measurement of air flow in closed-constrictors of air jet looms, Fibres Textiles in E Europe 3(1) 33-35 (Mar 1995), 6A973
Vortex dynamics in the cylinder wake, Annu Rev Fluid Mech 28 477-539 (1996), 6A974
Feedback control of vortex shedding from a circular cylinder, Exp Fluids 20(3) 218-224 (Jan 1996), 7A1110
Global characteristics of jet impact, J Fluid Mech 307 63-84 (Jan 1996), 7A1111
Mass transfer from impinging swirling jets (Spanish), J Brazilian Soc Mech Sci 17(3) 322-330 (1995), 7A1295
Effects of turbulence and unsteadiness on vortex shedding from sharp-edged bluff bodies, J Fluids Eng 118(1) 18-25 (Mar 1996), 9A1161
Effects of excitation on the coherent and random motion in a plane wall jet, J Fluid Mech 310 1-37 (Mar 1996), 9A1164
Flows generated by the impingement of a jet on a rotating surface - Part I: Basic flow patterns, J Fluids Eng 118(1) 61-67 (Mar 1996), 9A1165
Flows generated by the impingement of a jet on a rotating surface - Part II: Detailed flow structure and analysis, J Fluids Eng 118(1) 68-73 (Mar 1996), 9A1166
Computational studies of impinging jets using K-e turbulence models, Int J Numer Methods Fluids 22(8) 799-810 (Apr 1996), 10A1161

Gas-thermodynamics of a two-phase jet impinging normally on a flat surface, TsAGI 1(3) 96-106 (1994), 10A1162
Numerical simulations of flow modification of supersonic rectangular jets, AIAA J 34(5) 902-908 (May 1996), 10A1163
Comparative study of the influence of curvature on the boundary layers and on the inner region of wall jets, Indian J Eng Mat Sci 3(2) 51-56 (Apr 1996), 11A942
Oscillations of a moderately underexpanded choked jet impinging upon a flat plate, J Fluid Mech 315 267-291 (May 1996), 11A975
Effect of dispersed phase on modification of turbulent flow in a wall jet, J Fluids Eng 118(2) 307-315 (Jun 1996), 12A1132
Jet interaction in liquid-liquid coaxial injectors, J Fluids Eng 118(2) 329-334 (Jun 1996), 12A1133

368J. Jet-flow interaction

Individual Papers in Fluids Engineering - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N31
Computation of vortex lock-in in the laminar wake of a circular cylinder using unsteady monopole sources, J Fluids Eng 117(2) 227-233 (Jun 1995), 1A1066
Lock-in of vortices in the wake of an elevated round turbulent jet in a crossflow, Exp Fluids 19(3) 203-213 (Jul 1995), 1A1067
Suppression of vortex shedding from a circular cylinder by internal acoustic excitation, J Fluids Struct 9(5) 563-570 (Jul 1995), 1A1068
High-Speed Jet Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N40
Asymptotic expression of the forces induced by a strong jet in a crossflow, J Aircraft 32(5) 1138-1140 (Oct 1995), 2T965
Mixing analysis of axially opposed rows of jets injected into confined crossflow, J Propulsion Power 11(5) 885-893 (Oct 1995), 2A966
Use of streamwise vorticity to increase mass entrainment in a cylindrical ejector, AIAA J 33(9) 1641-1645 (Sep 1995), 2A967
In-flight imaging of transverse gas jets injected into compressible crossflows, AIAA J 33(12) 2259-2263 (Dec 1995), 4A1051
Mixing characteristics of twin impinging circular jets, J Propulsion Power 11(6) 1118-1124 (Dec 1995), 4A1052
Nonreflecting boundary conditions for jet flow copmutations, AIAA J 33(12) 2264-2270 (Dec 1995), 4A1053
Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, Atomization and Sprays 5(2) 175-196 (Apr 1995), 5T952
Interaction of flow structures within bistable flow behind two circular cylinders of different diameters, Exp Thermal Fluid Sci 12(1) 33-44 (Jan 1996), 6A972
Dual stream axisymmetric mixing in the presence of axial vorticity, J Propulsion Power 12(1) 178-185 (Feb 1995), 6A975
General integral formulation of turbulent buoyant jets in cross-flow, J Hydraul Eng 122(1) 27-34 (Jan 1996), 6A976
Experimental investigation of supersonic gaseous injection into a supersonic freestream, AIAA J 34(2) 317-323 (Feb 1996), 7A1112
Experimental study of round jets in cross-flow, J Fluid Mech 306 111-144 (Jan 1996), 7A1113
Flow fields of interacting parallel supersonic free jets, JSME Int J Ser B 39(1) 95-100 (Feb 1996), 7T1114
Complete 3D multiparameter mapping of a supersonic ramp fuel injector flowfield, AIAA J 34(3) 455-462 (Mar 1996), 8A959
Crossflow mixing of noncircular jets, J Propulsion Power 12(2) 225-230 (Apr 1996), 8A969
Experimental and theoretical study of the turbulent coflowing jet, J Fluid Mech 309 157-182 (Feb 1996), 8A970
Jet mixing in a model direct injection diesel engine with swirl, Proc Inst Mech Eng C 210(C1) 69-78 (1996), 8A971
Numerical simulations of transitional axisymmetric coaxial jets, AIAA J 34(4) 736-743 (Apr 1996), 9A1135
Experimental study of compressible countercurrent turbulent shear layer, AIAA J 34(4) 728-735 (Apr 1996), 9A1163
Numerical study of an unsteady confined jet: Application to crossflow filtration, J Fluids Eng 118(1) 74-80 (Mar 1996), 9A1167
Mechanism of self-oscillatory interaction of plane subsonic jet with acoustic resonator, Exp Thermal Fluid Sci 12(4) 388-398 (May 1996), 10T1158
Computational studies of impinging jets using K-ε turbulence models, Int J Numer Methods Fluids 22(8) 799-810 (Apr 1996), 10A1161
Flopping phenomenon of flow behind two plates placed side-by-side normal to the flow direction, Fluid Dyn Res 17(6) 311-328 (May 1996), 10A1164
High-speed observation of ultrahigh-speed submerged water jets, Exp Thermal Fluid Sci 12(4) 411-416 (May 1996), 10A1165
Velocity near-field of variable density turbulent jets, Int J Heat Mass Transfer 39(10) 2149-2164 (Jul 1996), 10A1166
Interactions of two jets in a channel: Solution multiplicity and linear stability, J Fluid Mech 313 55-82 (Apr 1996), 11A976
Large-eddy simulation of turbulent confined coannular jets, J Fluid Mech 315 387-411 (May 1996), 11A990
Effect of nonaxisymmetric forcing on a swirling jet with vortex breakdown, J Fluids Eng 118(2) 316-321 (Jun 1996), 12A1134
Feedback control of vortex shedding from a circular cylinder by cross-flow cylinder oscillations, Exp Fluids 21(1) 49-56 (May 1996), 12A1135
Turbulent incompressible jet in a curved coflow, J Fluids Eng 118(2) 300-306 (Jun 1996), 12A1136
How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, J Biomech 29(7) 967-971 (Jul 1996), 12A1474

368K. Heat or mass addition

Boundary-layer analysis of the thermal bar, J Fluid Mech 303 253-278 (Nov 1995), 4A1150
Thermal wake downstream of a 3D obstacle, Exp Thermal Fluid Sci 12(1) 65-74 (Jan 1996), 6A977
Mass transfer from impinging swirling jets (Spanish), J Brazilian Soc Mech Sci 17(3) 322-330 (1995), 7A1295
Simulations of particle dynamics in a confined shear flow, AIAA J 34(6) 1160-1166 (Jun 1996), 11A934
Inclined and horizontal wall plumes, Int J Heat Mass Transfer 39(11) 2243-2252 (Jul 1996), 11A1118
Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, J Fluid Mech 316 53-72 (Jun 1996), 12A1216

368Y. Computational techniques

Computation of vortex lock-in in the laminar wake of a circular cylinder using unsteady monopole sources, J Fluids Eng 117(2) 227-233 (Jun 1995), 1A1066
Transient solutions for 3D lid-driven cavity flows by a least-squares FEM, Int J Numer Methods Fluids 21(5) 413-432 (Sep 1995), 2A16
Computational modeling of 3D impinging jets with and without cross-flow using second-moment closure, Comput Fluids 24(7) 811-832 (Sep 1995), 2A963
Numerical analysis of base flowfield for a four-engine clustered nozzle configuration, J Propulsion Power 11(5) 1076-1078 (Oct 1995), 2A968
Effective vorticity-velocity formulations for 3D incompressible viscous flows, J Comput Phys 122(1) 68-82 (Nov 1995), 3A909
Fluid dynamics of slender, thin, annular liquid jets, Int J Numer Methods Fluids 21(9) 735-761 (Nov 1995), 3A955
Multigrid calculation of steady, viscous flow in a triangular cavity, J Comput Phys 122(1) 107-117 (Nov 1995), 3A956
Iterative solution of the incompressible Navier-Stokes equations on the meiko computing surface, Int J Numer Methods Fluids 22(4) 225-240 (Feb 1996), 7A1070
Numerical study of an unsteady confined jet: Application to crossflow filtration, J Fluids Eng 118(1) 74-80 (Mar 1996), 9A1167
Inviscid dynamics of 2D shear layers, Int J Comput Fluid Dyn 5(1-2) 59-80 (1995), 9A1168
Velocity and spanwise vorticity measurements in an excited mixing layer of a plane jet, Exp Fluids 20(5) 346-357 (Mar 1996), 9T1169
Evaluation of algebraic stress modeling in free-surface jet flows, J Fluids Eng 118(1) 48-54 (Mar 1996), 9A1194
Computational studies of impinging jets using K-ε turbulence models, Int J Numer Methods Fluids 22(8) 799-810 (Apr 1996), 10A1161
Numerical simulations of flow modification of supersonic rectangular jets, AIAA J 34(5) 902-908 (May 1996), 10A1163
Oscillations of a moderately underexpanded choked jet impinging upon a flat plate, J Fluid Mech 315 267-291 (May 1996), 11A975
Large-eddy simulation of turbulent confined coannular jets, J Fluid Mech 315 387-411 (May 1996), 11A990
Large-eddy simulation of the shear-driven cavity flow using dynamic modeling, Int J Comput Fluid Dyn 6(4) 321-335 (1996), 12T1137

368Z. Experimental techniques

Computer controlled, finite duration "steady" flow facility, Exp Fluids 19(4) 250-254 (Aug 1995), 2A969
Large scale planar laser induced fluorescence in turbulent density-stratified flows, Exp Fluids 19(5) 297-304 (Sep 1995), 3A952
Optical technique for detecting minute-amplitude standing waves on a liquid jet, Exp Fluids 19(6) 429-431 (Oct 1995), 4A1016
Experimental study of a laminar jet in a double-diffusion environment, J Fluids Eng 117(3) 347-354 (Sep 1995), 5A949
Quantitative visualization of a submerged pseudo-plastic jet using particle image velocimetry, J Fluids Eng 117(3) 369-373 (Sep 1995), 5A953
Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, J Fluid Mech 304 285-319 (Dec 1995), 6A968
Thermal wake downstream of a 3D obstacle, Exp Thermal Fluid Sci 12(1) 65-74 (Jan 1996), 6A977
Impact of tab location relative to the nozzle exit on jet distortion, AIAA J 34(1) 197-199 (Jan 1996), 6T978
Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, Mech Res Commun 23(1) 91-102 (Feb 1996), 7T1115
High-speed observation of ultrahigh-speed submerged water jets, Exp Thermal Fluid Sci 12(4) 411-416 (May 1996), 10A1165
Concentration measurements in a self-excited jet, Exp Fluids 21(2) 103-109 (Jun 1996), 12A1130

370. FLOW STABILITY

370A. General theory

Unstable and neutral spectra of incompressible inviscid and viscid fluids on the 2D torus, Quart Appl Math 53(3) 465-486 (Sep 1995), 1A1069
Note on the wave action density of a viscous instability mode on a laminar free-shear flow, J Fluid Mech 302 141-148 (Nov 1995), 4A1054
Instability proof for some transonic problems with resonant mode crossings, Theor Comput Fluid Dyn 7(6) 457-461 (1995), 5A954
Linear stability theory applied to boundary layers, Annu Rev Fluid Mech 28 389-428 (1996), 6A979
Effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions, J Fluid Mech 305 239-261 (Dec 1995), 6A1239
Thermo-viscous fingering of flow in a thin gap: A model of magma flow in dikes and fissures, J Fluid Mech 305 219-238 (Dec 1995), 6A1240
Operator approach to three problems of fluid mechanics, Arch Mech 47(6) 1043-1056 (1995), 9A1060
Embedding of Lipschitz stability in flows, Nonlinear Anal 26(11) 1749-1752 (Jun 1996), 9T1170
Hydrodynamic instabilities, chaos and phase transition, Acta Mech Sinica 12(1) 1-14 (1996), 10A1167
Energetics of magnetic instabilities, Geophys Astrophys Fluid Dyn 81(3-4) 211-213 (Dec 1995), 11T1007
Linear stability in systems with intensive mass transfer - I: Gas (liquid)-solid, Int J Heat Mass Transfer 39(12) 2571-2580 (Aug 1996), 11A1263
Linear stability in systems with intensive mass transfer - II: Gas-liquid, Int J Heat Mass Transfer 39(12) 2581-2585 (Aug 1996), 11A1264
Linear stability in systems with intensive mass transfer - III: Liquid-liquid, Int J Heat Mass Transfer 39(12) 2587-2592 (Aug 1996), 11A1265
Linear stability in systems with intensive mass transfer - IV: Gas-liquid film flow, Int J Heat Mass Transfer 39(12) 2593-2597 (Aug 1996), 11A1266

370B. Solid boundary (internal flow)

Nonlinear stability analysis of plane Poiseuille flow by normal forms, Physica D 86(4) 603-620 (Oct 1995), 2A972
Stability of liquid CO_2 in seawater at high pressures, Int J Energy Res 19(8) 659-664 (Nov 1995), 3A957
Nonlinear behavior of transiently amplified disturbances in pipe Poiseuille flow, Eur J Mech B 14(6) 719-735 (1995), 4A1055
Stability of the flow of a fluid through a flexible tube at high Reynolds number, J Fluid Mech 302 117-139 (Nov 1995), 4A1056
Study on two-phase flow instability in parallel multi-channels, Heat Transfer Japan Res 23(8) 693-709 (1994), 7A1116
Instability of oscillatory Stokes-Stewartson layers in a rotating fluid, J Fluid Mech 311 119-140 (Mar 1996), 9A1175
Stability of two-layer stratified flow in inclined channels: Applications to air entrainment in coating systems, J Fluid Mech 312 173-200 (Apr 1996), 10A1169
Stability of the modified plane Poiseuille flow in the presence of a transverse magnetic field, Fluid Dyn Res 17(6) 293-310 (May 1996), 10A1190
Instability and transitions of flow in a curved square duct: The development of two pairs of Dean vortices, J Fluid Mech 314 227-246 (May 1996), 11A964
Stability study of an unsteady oscillation flow, Appl Math Mech 17(3) 281-294 (Mar 1996), 11A977
Linear instability of elliptic pipe flow, J Fluid Mech 316 307-324 (Jun 1996), 12A1138
Sources of error in eigenvalue spectra for pipe-Poiseuille flows, J Fluids Eng 118(2) 414-416 (Jun 1996), 12T1139

370C. Solid boundary (external flow)

Short-wavelength instabilities in 3D classical boundary layers, Eur J Mech B 14(4) 409-437 (1995), 1A1070
Receptivity mechanisms for Gortler vortex modes, Theor Comput Fluid Dyn 7(5) 317-339 (1995), 2A944
Fundamental and subharmonic secondary instabilities of Gortler vortices, J Fluid Mech 297 77-100 (Aug 1995), 2A970
Secondary instability modes generated by a Tollmien-Schlichting wave scattering from a bump, Theor Comput Fluid Dyn 7(5) 341-354 (1995), 2A971
Stability of spatially developing boundary layers in pressure gradients, J Fluid Mech 300 117-147 (Oct 1995), 4A1024
Secondary instability with respect to spatial growing 3D subharmonic disturbances in boundary layer flow with suction, J Hydrodyn 7(3) 7-12 (1995), 4T1034
Nonlinear behavior of transiently amplified disturbances in pipe Poiseuille flow, Eur J Mech B 14(6) 719-735 (1995), 4A1055
Instability in supersonic boundary-layer flow over a compression ramp, J Fluid Mech 300 265-285 (Oct 1995), 4A1057
Spatially localized 2D finite-amplitude states in plane Couette flow, Eur J Mech B 14(6) 677-696 (1995), 4A1058
Nonlinear development of disturbances in boundary layers assumed as parallel, Eur J Mech B 14(5) 577-599 (1995), 4A1059
Linear stability theory applied to boundary layers, Annu Rev Fluid Mech 28 389-428 (1996), 6A979
New boundary layer resonance enhanced by wave modulation: Theory and experiment, J Fluid Mech 304 231-262 (Dec 1995), 6A980
Phase-equation approach to boundary-layer instability theory: Tollmien-Schlichting waves, J Fluid Mech 304 185-212 (Dec 1995), 6A981
Effects of displacement induced by thermal perturbations on the structure and stability of boundary-layer flows, Theor Comput Fluid Dyn 8(1) 57-72 (1996), 7A1098
Vortex-wave interactions - Part 1: Nonsymmetrical input and cross-flow in boundary layers, J Fluid Mech 307 101-133 (Jan 1996), 7A1117
Concerning marginal singularities in the boundary-layer flow on a downstream-moving surface, J Fluid Mech 308 171-194 (Feb 1996), 8A939
Combined effects of elevated free-stream turbulence and streamwise acceleration on flow and thermal structures in transitional boundary layers, Exp Thermal Fluid Sci 12(3) 338-351 (Apr 1996), 8T942
Hydrodynamic stability of channel flow with compliant boundaries, Theor Comput Fluid Dyn 8(2) 105-129 (1996), 8A948
Nonlinearity-coupled receptivity process generating a Tollmien-Schlichting wave behind a backward-facing step, Fluid Dyn Res 17(5) 225-236 (Apr 1996), 8A1040
Boundary-layer receptivity for a parabolic loading edge, J Fluid Mech 310 243-267 (Mar 1996), 9A1134
Nonlinear shear instabilities of alongshore currents on plane beaches, J Fluid Mech 310 181-213 (Mar 1996), 9A1171
Stability of attachment-line boundary layers - Part 1: The incompressible swept Hiemenz flow, J Fluid Mech 311 239-255 (Mar 1996), 9A1172
Generation of Tollmien-Schlichting waves by free-stream turbulence, J Fluid Mech 312 341-371 (Apr 1996), 10A1135
Mechanics of the Tollmien-Schlichting wave, J Fluid Mech 312 107-124 (Apr 1996), 10A1136
Torsional flow: Elastic instability in a finite domain, J Fluid Mech 312 279-298 (Apr 1996), 10A1168
Onset of instability in unsteady boundary-layer separation, J Fluid Mech 315 223-256 (May 1996), 11A978
Weakly nonlinear wave motions in a thermally-stratified boundary layer, J Fluid Mech 315 293-316 (May 1996), 11A983

Disturbance growth in an unstable 3D boundary layer and its dependence on environmental conditions, J Fluid Mech 316 73-113 (Jun 1996), 12A1140
Instability of laminar natural convection boundary layer flow on a vertical porous flat plate, J Appl Mech 63(2) 404-410 (Jun 1996), 12A1141
Simple cases of the streamline-curvature instability in 3D boundary layers, J Fluid Mech 317 129-154 (Jun 1996), 12A1142

370D. Nonlinear theory

Nonlinear stability analysis of plane Poiseuille flow by normal forms, Physica D 86(4) 603-620 (Oct 1995), 2A972
Nonlinear stability problem for ferromagnetic fluids in a porous medium, Appl Math letters 8(2) 25-29 (Mar 1995), 2A1001
Convective Coupled Map for simulating spatiotemporal chaos in flows, Acta Mech Sinica 11(1) 1-7 (1995), 3A97
Nonlinear stability of kolmogorov flow with bottom-friction using the energy method, J Phys Soc Japan 64(10) 3725-3739 (Oct 1995), 3A958
Nonlinear development of disturbances in boundary layers assumed as parallel, Eur J Mech B 14(5) 577-599 (1995), 4A1059
New boundary layer resonance enhanced by wave modulation: Theory and experiment, J Fluid Mech 304 231-262 (Dec 1995), 6A980
Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, J Phys Soc Japan 64(12) 4693-4707 (Dec 1995), 6A1006
Instability of oscillatory shock profile solutions of the generalized Burgers-KdV equation, Physica D 90(4) 366-386 (Feb 1996), 8A193
Nonlinear instability of wavetrain under influences of shear current with varying vorticity and air pressure, Acta Mech Sinica 12(1) 24-38 (1996), 10A1171
Large-scale Kolmogorov flow on the beta-plane and resonant wave interactions, Physica D 94(1-2) 36-56 (Jun 1996), 11A979
Weakly nonlinear wave motions in a thermally-stratified boundary layer, J Fluid Mech 315 293-316 (May 1996), 11A983
Interaction of phase-locked modes: A new mechanism for the rapid growth of 3D disturbances, J Fluid Mech 316 335-372 (Jun 1996), 12A1101
Active resonant triad of mixed modes in symmetric shear flows: A plane wake as a paradigm, J Fluid Mech 317 337-368 (Jun 1996), 12A1143
Effects of suction on the nonlinear stability of a 3D compressible boundary layer, IMA J Appl Math 56(2) 183-206 (Apr 1996), 12A1144

370G. Non-Newtonian flow

Interfacial instabilities in plane Poiseuille flow of two stratified viscoelastic fluids with heat transfer - Part 1: Evolution equation and stability analysis, J Fluid Mech 299 241-265 (Sep 1995), 2A384
Numerical study of the asymptotic evolution and breakup of Newtonian and viscoelastic jets, J Non-Newtonian Fluid Mech 59(2-3) 267-282 (Sep 1995), 2A981
Instability of disturbed elongational flows of viscoelastic fluids, Arch Mech 47(4) 647-659 (1995), 3A959
Nonlinear hydrodynamic stability of viscoelastic fluids heated from below, J Non-Newtonian Fluid Mech 60(1) 1-26 (Oct 1995), 3A960
Unsteady motions of fluids of second grade, Arch Mech 47(4) 661-676 (1995), 3A961
Nonlinear stability of flows of Jeffreys fluids at low Weissenberg numbers, Arch Rational Mech Anal 132(1) 37-48 (1995), 4A1060
Nonlinear stability of plane Poiseuille flow for non-Newtonian power series fluid, Appl Math Mech 16(7) 651-655 (Jul 1995), 4A1061
Growth rates of the Marangoni instability in a layer of elastic liquid, Rheol Acta 34(6) 601-605 (Dec 1995), 5A955
Spurt and instability in a two-layer Johnson-Segalman liquid, Theor Comput Fluid Dyn 7(6) 463-475 (1995), 5A956
Purely elastic instabilities in viscometric flows, Annu Rev Fluid Mech 28 129-185 (1996), 6A380
Stability of bounded rapid shear flows of a granular material, J Fluid Mech 308 31-62 (Feb 1996), 8A1300
Stability of some shear flows for concentrated suspensions, Rheol Acta 35(1) 69-75 (Feb 1996), 9A1042
Stability of the shear flow of a viscoelastic fluid with slip along the fixed wall, Rheol Acta 35(1) 39-47 (Feb 1996), 9A1173
Torsional flow: Elastic instability in a finite domain, J Fluid Mech 312 279-298 (Apr 1996), 10A1168
Nonisothermal stability of viscoelastic liquid flow between disks, Heat Transfer Res 25(8) 983-985 (1993), 10A1262
Stability of viscoelastic flow between eccentric rotating cylinders, J Non-Newtonian Fluid Mech 63(2-3) 97-120 (Apr 1996), 12A1145

370H. Nonequilibrium and chemical effects

Existence and asymptotic stability of traveling wave solutions of a model system for reacting flow, Nonlinear Anal 26(11) 1791-1809 (Jun 1996), 9T1174
Linear stability analysis of reaction fronts in liquids, Quart Appl Math 54(2) 225-247 (Jun 1996), 11A980
Near-limit oscillations of spherical diffusion flames, AIAA J 34(7) 1403-1409 (Jul 1996), 12A1305

370I. Pendant drops

Sur les petites oscillations d'une goutte de liquide catenoidale entre deux plaques paralleles en apesanteur (French), Z Angew Math Phys 46(5) 724-738 (Sep 1995), 2A180
Analytical description of the breakup of liquid jets, J Fluid Mech 301 109-132 (Oct 1995), 4A1065
Contraction of liquid filaments, J Fluid Mech 309 277-300 (Feb 1996), 8A931
Combined capillarity and elasticity problem for a thin plate, SIAM J Appl Math 56(2) 480-493 (Apr 1996), 9A314
Numerical simulations of 3D drop collisions, AIAA J 34(4) 750-755 (Apr 1996), 9A1124
Experiment on the breakup of impinging droplets on a hot surface, Exp Fluids 21(2) 118-123 (Jun 1996), 12A1090

370J. Stratified flows

Nonlinear growth of the shock-accelerated instability of a thin fluid layer, J Fluid Mech 295 23-42 (Jul 1995), 1A240
Stability of vertical thermal boundary-layer flow in a porous medium, Eur J Mech B 14(4) 395-407 (1995), 1A1071
Two-dimensional secondary instabilities in a strongly stratified shear layer, J Fluid Mech 296 73-126 (Aug 1995), 1A1072
Nonlinear symmetric stability of planetary atmospheres, J Fluid Mech 296 391-407 (Aug 1995), 1A1408
Standing and traveling oscillatory blob convection, J Fluid Mech 297 255-273 (Aug 1995), 2A880
Baroclinic instability, Annu Rev Fluid Mech 27 419-467 (1995), 2A973
Numerical analysis of strongly nonlinear baroclinic instability, Fluid Dyn Res 16(5) 251-273 (Oct 1995), 2A976
Electrohydrodynamic Kelvin-Helmholtz instability for a velocity stratified fluid, J Comput Appl Math 60(3) 331-346 (Jun 1995), 3A962
Stability of unstably stratified shear flow in a channel under non-Boussinesq conditions, Acta Mech 112(1-4) 37-58 (1995), 3A963
Symmetry, sidewalls, and the transition to chaos in baroclinic systems, J Fluid Mech 300 311-338 (Oct 1995), 4A128
Experimental study of interfacial long waves in a two-layer shear flow, J Fluid Mech 303 23-53 (Nov 1995), 4A276
Instability of density stratified vortices, Eur J Mech B 14(5) 617-628 (1995), 4A1062
Numerical investigation of Richtmyer-Meshkov instability using front tracking, J Fluid Mech 301 51-64 (Oct 1995), 4A1063
Stability of linear shear flows in shallow water, J Fluid Mech 303 203-214 (Nov 1995), 4A1069
Stability of mixed-convection flow in a tall vertical channel under non-Boussinesq conditions, J Fluid Mech 302 91-115 (Nov 1995), 4A1160
Nonlinear instabilities in superposed fluids in the presence of adsorption, Int J Eng Sci 34(2) 213-226 (Jan 1996), 5A957
Convection in ^{3}He-superfluid-^{4}He mixtures - Part 2: A survey of instabilities, J Fluid Mech 307 297-331 (Jan 1996), 7A1118
New oscillatory instability in a mushy layer during the solidification of binary alloys, J Fluid Mech 307 245-267 (Jan 1996), 7A1119
Onset of convection in a rapidly rotating compressible fluid spherical shell, Geophys Astrophys Fluid Dyn 80(3-4) 241-254 (Nov 1995), 7A1120
Effect of the separation ratio on the transition between traveling waves and steady convection in the two-component Rayleigh-Benard problem, Eur J Mech B 15(2) 241-257 (1996), 10A1073
Stability of two-layer stratified flow in inclined channels: Applications to air entrainment in coating systems, J Fluid Mech 312 173-200 (Apr 1996), 10A1169
Convective instability in rotating liquid ^{3}He-^{4}He mixtures, J Fluid Mech 313 381-407 (Apr 1996), 11A981
Stability of a potential vorticity front: From quasi-geostrophy to shallow water, J Fluid Mech 315 65-84 (May 1996), 11A982
Weakly nonlinear wave motions in a thermally-stratified boundary layer, J Fluid Mech 315 293-316 (May 1996), 11A983

370K. Rotating flows or surfaces

Flow-history effect on higher modes in the spherical Couette system, J Fluid Mech 295 43-60 (Jul 1995), 1A1073
Nonlinear symmetric stability of planetary atmospheres, J Fluid Mech 296 391-407 (Aug 1995), 1A1408
Baroclinic instability, Annu Rev Fluid Mech 27 419-467 (1995), 2A973
Absolute instability of the boundary layer on a rotating disk, J Fluid Mech 299 17-33 (Sep 1995), 2A974
Existence of Taylor vortices and wide-gap instabilities in spherical Couette flow, Acta Mech 111(3-4) 125-140 (1995), 2A975
Numerical analysis of strongly nonlinear baroclinic instability, Fluid Dyn Res 16(5) 251-273 (Oct 1995), 2A976
Symmetry, sidewalls, and the transition to chaos in baroclinic systems, J Fluid Mech 300 311-338 (Oct 1995), 4A128
Elastic instabilities in cone-and-plate flow: Small gap theory, Z Angew Math Phys 46(6) 946-959 (Nov 1995), 5A426
Development of spiral and wavy vortices in circular Couette flow, Fluid Dyn Res 17(2) 87-105 (Jan 1996), 5A958
Development and linear stability of rotating boundary layers, Trans Can Soc Mech Eng 19(4) 471-487 (1995), 6A982
Hydromagnetic instabilities driven by the Hartmann boundary layer in a rapidly rotating sphere, J Fluid Mech 304 263-283 (Dec 1995), 6A983
Instability of a rotating shear layer in the transonic regime, J Fluid Mech 306 59-82 (Jan 1996), 7A1077
Onset of convection in a rapidly rotating compressible fluid spherical shell, Geophys Astrophys Fluid Dyn 80(3-4) 241-254 (Nov 1995), 7A1120
Stability analysis of slowly divergent swirling flow - I: Theory, Appl Math Mech 16(11) 1047-1054 (Nov 1995), 7A1121
Note on the stability theory of buoyancy-driven ocean currents over a sloping bottom, Z Angew Math Phys 47(1) 28-38 (Jan 1996), 8A1360
Instability of oscillatory Stokes-Stewartson layers in a rotating fluid, J Fluid Mech 311 119-140 (Mar 1996), 9A1175
Stability of confined swirling flow with and without vortex breakdown, J Fluid Mech 311 1-36 (Mar 1996), 9A1176
Stability of Couette-Poiseuille flow of fiber suspensions, Arch Mech 47(6) 1027-1041 (1995), 9A1177
Stability of a potential vorticity front: From quasi-geostrophy to shallow water, J Fluid Mech 315 65-84 (May 1996), 11A982
Destabilizing nature of differential rotation, Geophys Astrophys Fluid Dyn 81(3-4) 215-232 (Dec 1995), 11T984
Experimental study of absolute instability of the rotating-disk boundary-layer flow, J Fluid Mech 314 373-405 (May 1996), 11A985
Capillary instability of an oscillating liquid column subjected to a periodic rigid-body rotation, Fluid Dyn Res 18(1) 17-34 (Jun 1996), 11A987
Stability of viscoelastic flow between eccentric rotating cylinders, J Non-Newtonian Fluid Mech 63(2-3) 97-120 (Apr 1996), 12A1145

370M. Vortices

Study of singularity formation in the Kelvin-Helmholtz instability with surface tension, SIAM J Appl Math 55(4) 865-891 (Aug 1995), 1A1074
Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N47
Steady columnar vortices under local compression, J Fluid Mech 299 367-388 (Sep 1995), 2A869
Vortex sheddings from eight prisms having different cross-sections but a common height in transonic flows, Acta Mech 111(3-4) 151-159 (1995), 2A904
Fundamental and subharmonic secondary instabilities of Gortler vortices, J Fluid Mech 297 77-100 (Aug 1995), 2A970
Numerical study of vortex reconnection for two anti-parallel vortex tubes, Acta Mech Sinica 11(3) 209-218 (1995), 3A895
Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, Acta Mech Sinica 11(3) 200-208 (1995), 3A915
Nonsteady stability of the flow around the circle in the Foppl model, Quart Appl Math 53(4) 683-694 (Dec 1995), 4A931
Instability of density stratified vortices, Eur J Mech B 14(5) 617-628 (1995), 4A1062
Singularity formation in 3D motion of a vortex sheet, J Fluid Mech 300 339-366 (Oct 1995), 4T1064
Vortex characteristics over delta wing subject to transient along-core blowing, AIAA J 33(12) 2418-2420 (Dec 1995), 4T1109
Development of spiral and wavy vortices in circular Couette flow, Fluid Dyn Res 17(2) 87-105 (Jan 1996), 5A958
Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, J Fluid Mech 305 77-91 (Dec 1995), 6A897
Vortex-wave interactions - Part 1: Nonsymmetrical input and cross-flow in boundary layers, J Fluid Mech 307 101-133 (Jan 1996), 7A1117
Local stability of 2D steady irrotational solenoidal flows with closed streamlines, J Phys Soc Japan 65(1) 107-113 (Jan 1996), 7A1122
Transition to turbulence in an elliptic vortex, J Fluid Mech 307 43-62 (Jan 1996), 7A1123
Temporal evolution of 3D vortex breakdown from steady, axisymmetric solutions, AIAA J 34(3) 632-634 (Mar 1996), 8T972
Stability of leading-edge vortex pair on a slender delta wing, AIAA J 34(6) 1182-1187 (Jun 1996), 11A986
Examination of vortex deformation during blade-vortex interaction, AIAA J 34(6) 1188-1194 (Jun 1996), 11A1068
Initial and initial-boundary value problems for a vortex filament with or without axial flow, SIAM J Math Anal 27(4) 1015-1023 (Jul 1996), 12A1036
Effect of nonaxisymmetric forcing on a swirling jet with vortex breakdown, J Fluids Eng 118(2) 316-321 (Jun 1996), 12A1134

370P. Free surfaces and interfaces (eg jets)

Study of singularity formation in the Kelvin-Helmholtz instability with surface tension, SIAM J Appl Math 55(4) 865-891 (Aug 1995), 1A1074
Hydrodynamical instabilities of thermocapillary flow in a half-zone, J Fluid Mech 297 357-372 (Aug 1995), 2A887
Free-surface stability criterion as affected by velocity distribution, J Hydraul Eng 121(10) 736-743 (Oct 1995), 2T977
Instability of non-wetting film with interfacial viscous stress, J Fluid Mech 298 287-309 (Sep 1995), 2A978
Investigation of some pattern selection issues in the rising plane Taylor bubble problem, J Comput Phys 121(1) 129-141 (Oct 1995), 2A979
Inviscid instability of annular shear layers, Thermophys and Aeromech 2(1) 29-34 (1995), 2A980
Numerical study of the asymptotic evolution and breakup of Newtonian and viscoelastic jets, J Non-Newtonian Fluid Mech 59(2-3) 267-282 (Sep 1995), 2A981
Stability of a stretching capillary jet with parabolic axial velocity, J Phys Soc Japan 64(9) 3275-3283 (Sep 1995), 2A982
Effects of fluctuating body forces on annular liquid jets, Arch Appl Mech 65(8) 548-563 (Oct 1995), 3A898
Instability of jets of arbitary exit geometry, Int J Numer Methods Fluids 21(9) 763-780 (Nov 1995), 3A964
Two approaches to the problem of instability of short-crested water waves, J Fluid Mech 303 297-326 (Nov 1995), 4A268
Water waves in a deep square basin, J Fluid Mech 302 65-90 (Nov 1995), 4A269
Effects of interaction between Marangoni and double-diffusive instabilities, J Fluid Mech 303 1-21 (Nov 1995), 4A964
Collective hydrodynamics of deformable drops and bubbles in dilute low Reynolds number suspensions, J Fluid Mech 300 231-263 (Oct 1995), 4A1007
Numerical investigation of Richtmyer-Meshkov instability using front tracking, J Fluid Mech 301 51-64 (Oct 1995), 4A1063
Analytical description of the breakup of liquid jets, J Fluid Mech 301 109-132 (Oct 1995), 4A1065
Hydrodynamic stability of a sheared liquid film, J Fluid Mech 301 175-202 (Oct 1995), 4A1066
Marangoni instability in a liquid layer with two free surfaces, Eur J Mech B 14(6) 737-760 (1995), 4A1067
Observations of a planar jet subjected to large-amplitude, low-frequency disturbances, AIAA J 33(12) 2424-2426 (Dec 1995), 4T1068
Stability of linear shear flows in shallow water, J Fluid Mech 303 203-214 (Nov 1995), 4A1069
Surface stability of liquid conductors in electromagnetic shaping, J Fluid Mech 302 1-28 (Nov 1995), 4A1070
Surfactant effects on the dynamics of a thin liquid sheet, J Fluid Mech 300 71-85 (Oct 1995), 4A1071
Transverse instability of plane wavetrains in gas-fluidized beds, J Fluid Mech 303 55-81 (Nov 1995), 4A1072
Weakly nonlinear analysis of convection in mushy layers during the solidification of binary alloys, J Fluid Mech 302 307-331 (Nov 1995), 4A1073
Absolute and convective instability of current-carrying jet of magnetic liquid, Eur J Mech B 14(6) 823-830 (1995), 4A1092

Temporal stability of a developing jet: A model problem, J Austral Math Soc B 37(2) 235-252 (Oct 1995), 5A959
Long-wave morphological instabilities in directional solidification, European J Appl Math 6(6) 639-652 (Dec 1995), 5A1170
Analysis of stability of Bingham fluid flowing down an inclined plane, Appl Math Mech 16(10) 1013-1018 (Oct 1995), 6A984
Directional solidification into static stability, J Fluid Mech 304 143-159 (Dec 1995), 6A985
Experiments on subharmonic resonance in a shear layer, J Fluid Mech 304 343-372 (Dec 1995), 6A987
Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, J Phys Soc Japan 64(12) 4693-4707 (Dec 1995), 6A1006
Center-unstable manifold theorem for paramctrically excited surface waves, SIAM J Math Anal 27(1) 241-257 (Jan 1996), 7A269
Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, Mech Res Commun 23(1) 91-102 (Feb 1996), 7T1115
Mathcmatical study of small oscillations of two non-miscible heavy liquids in a container (French), Mech Res Commun 23(1) 75-80 (Feb 1996), 7T1124
Onset of folding in plane liquid films, J Fluid Mech 307 85-99 (Jan 1996), 7A1125
Stationary waves on an inclined sheet of viscous fluid at high Reynolds and moderate Weber numbers, J Fluid Mech 307 191-229 (Jan 1996), 7A1126
Contraction of liquid filaments, J Fluid Mech 309 277-300 (Feb 1996), 8A931
Instability of an annular viscous liquid jet, Acta Mech 114(1-4) 167-183 (1996), 8A973
Stability of thermoviscous Hele-Shaw flow, J Fluid Mech 308 111-128 (Feb 1996), 8A974
Combined capillarity and elasticity problem for a thin plate, SIAM J Appl Math 56(2) 480-493 (Apr 1996), 9A314
Note on a vertical water-jet emanating downwards from a slit in the air, Acta Mech 115(1-4) 239-245 (1996), 9A1157
Experimental study of compressible countercurrent turbulent shear layer, AIAA J 34(4) 728-735 (Apr 1996), 9A1163
Novel oscillation phenomenon of the water rivulet on a smooth hydrophobic surface, Acta Mech 115(1-4) 27-37 (1996), 9A1178
Instabilities of the upstream meniscus in directional viscous fingering, J Fluid Mech 312 125-148 (Apr 1996), 10A1170
Nonlinear instability of wavetrain under influences of shear current with varying vorticity and air pressure, Acta Mech Sinica 12(1) 24-38 (1996), 10A1171
Electrohydrodynamic stability of a highly-viscous jet, J Fluid Mech 312 311-326 (Apr 1996), 10A1184
Forward motion effects on jet noise, panel vibration, and radiation, AIAA J 34(6) 1103-1110 (Jun 1996), 11A245
Investigation of large-scale structures in supersonic planar base flows, AIAA J 34(6) 1146-1152 (Jun 1996), 11A913
Spatial numerical simulations of linear and weakly nonlinear wave instabilities in supersonic boundary layers, Theor Comput Fluid Dyn 8(3) 219-235 (1996), 11A916
Near field characteristics of circular jets at low Reynolds numbers, Mech Res Commun 23(3) 313-324 (Jun 1996), 11A972
Capillary instability of an oscillating liquid column subjected to a periodic rigid-body rotation, Fluid Dyn Res 18(1) 17-34 (Jun 1996), 11A987
Spatial evolution of centrifugal instabilities within curved incompressible mixing layers, J Fluid Mech 315 85-103 (May 1996), 11A988
Vortical structure morphology in the initial region of a forced mixing layer: Roll-up and pairing, J Fluid Mech 315 175-221 (May 1996), 11A991
Oblique wind waves generated by the instability of wind blowing over water, J Fluid Mech 316 163-172 (Jun 1996), 12A248

370Y. Computational techniques

Finite-difference analysis of the stability of flow in a curved channel wide-gap problem, Arch Mech 47(1) 3-11 (1995), 1A45
Computation of linear instability eigenvalue subject to perturbations in mean-flow and stability parameters, Comput Fluids 24(6) 653-662 (Jul 1995), 1A1075
Numerical analysis of strongly nonlinear baroclinic instability, Fluid Dyn Res 16(5) 251-273 (Oct 1995), 2A976
Investigation of some pattern selection issues in the rising plane Taylor bubble problem, J Comput Phys 121(1) 129-141 (Oct 1995), 2A979
Instability of jets of arbitary exit geometry, Int J Numer Methods Fluids 21(9) 763-780 (Nov 1995), 3A964
Complex mapped matrix methods in hydrodynamic stability problems, J Comput Phys 122(1) 13-24 (Nov 1995), 3A965
Spatially localized 2D finite-amplitude states in plane Couette flow, Eur J Mech B 14(6) 677-696 (1995), 4A1058
New approach for linear stability analysis, Int J Numer Methods Heat & Fluid Flow 6(1) 21-30 (Jan 1996), 6A986
Transition to turbulence in an elliptic vortex, J Fluid Mech 307 43-62 (Jan 1996), 7A1123
Comments on instability of disturbed elongational flows of viscoelastic fluids, Arch Mech 47(6) 1189-1192 (1995), 9A1179

370Z. Experimental techniques

Burnout of counter-current two-phase flow in a horizontal channel (Polish), Prace Inst Maszyn Przeplywowych 0(99) 105-112 (1995), 9A1180

372. TURBULENCE

372A. General theory

Transition, Turbulence, and Noise: Theory and Applications for Scientists and Engineers (Kluwer, Norwell MA, 1994) 1R24
Turbulent Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N33
Fluid Dynamics for Physicists (Cambridge UP, New York, 1995) 2R32
Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N47
Assessment of the SSG pressure-strain model in 2D turbulent separated flows, Appl Sci Res 55(1) 39-61 (Jul 1995), 3A966
Issues of turbulence statistics, Acta Mech Sinica 11(2) 122-128 (1995), 3A967
Two scaling regimes in 2D turbulence, J Phys Soc Japan 64(10) 3740-3747 (Oct 1995), 3A968
Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), Proc JSCE 521(II-32) 93-100 (Aug 1995), 3A969
Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), Proc JSCE 521(II-32) 181-191 (Aug 1995), 3A1387
Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Inst Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N29
Practical and fundamental devleopments in the computational modeling of fluid flows, Proc Inst Mech Eng C 209(C5) 297-314 (1995), 4A951
Unified turbulence closure model for axisymmetric and planar free shear flows, AIAA J 33(12) 2325-2331 (Dec 1995), 4A1075
Rivlin-Eriksen's theorem application to a turbulence model, Eur J Mech B 14(5) 557-576 (1995), 4T1086
Viscous subrange determines inertial range properties in turbulence shell models, Physica D 88(1) 40-54 (Nov 1995), 4A1088
Extended self similarity and the form function, Meccanica 30(6) 719-725 (Dec 1995), 5A960
Optimal theory for an expansion of flow quantities to capture the flow structures, Fluid Dyn Res 17(2) 67-85 (Jan 1996), 5A971
Entropy Generation Minimization: Method of Thermodynamic Optimization of Finite-Size Systems and Finite-Time Processes (CRC Press, Boca Raton FL, 1995) 7R26
Inertial-range scaling laws, J Fluid Mech 306 167-181 (Jan 1996), 7A1127
Turbulence in the ocean, atmosphere, galaxy, and universe, Appl Mech Rev 49(5) 299-315 (May 1996), 7A1128
Evolution of helicity in the presence of turbulence: The limit of passive diffusion, Geophys Astrophys Fluid Dyn 81(1-2) 73-99 (Dec 1995), 8T984
Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics (AIP, Woodbury, NY, 1996) 9N20
Wavelets: Theory and Applications - ICASE-LaRC Series in Computational Science and Engineering (Oxford UP, New York, 1996) 10N5
Voyage around the Navier-Stokes equations, Physica D 92(3-4) 133-139 (May 1996), 10A1064
Advances in Fluid Mechanics - Proc of 1st Int Conf, New Orleans, June 1996. Advances in Fluid Mechanics series, Vol 9 (Comput Mech, Billerica MA, 1996) 11N42
Quantuum model for the onset of turbulence, Physica D 94(3) 103-115 (Jul 1996), 12A1146

372B. Homogeneous or isotropic turbulence

Pressure structure functions and spectra for locally isotropic turbulence, J Fluid Mech 296 247-269 (Aug 1995), 1A1076
Theoretical turbulence modeling of homogeneous decaying flow in a rotating frame, J Phys Soc Japan 64(8) 2854-2867 (Aug 1995), 1A1077
Lighthill relationship and sound generation from isotropic turbulence, Theor Comput Fluid Dyn 7(5) 355-361 (1995), 2A216
50 years of turbulence research in China, Annu Rev Fluid Mech 27 1-15 (1995), 2T983
Refined similarity hypotheses for passive scalars mixed by turbulence, J Fluid Mech 297 275-291 (Aug 1995), 2A992
Effect of Reynolds number on isotropic turbulent dispersion, J Fluids Eng 117(3) 402-409 (Sep 1995), 5A961
Experimental analysis of scaling laws in low Re_λ grid-generated turbulence, Exp Fluids 20(3) 199-209 (Jan 1996), 7A1129
Effect of subgrid models on the computed interscale energy transfer in isotropic turbulence, Comput Fluids 25(2) 165-180 (Feb 1996), 8A975
Exact results on stationary turbulence in 2D: Consequences of vorticity conservation, Physica D 91(1-2) 97-142 (Mar 1996), 8A976
Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part 1: Velocity field, J Fluid Mech 309 113-156 (Feb 1996), 8A977
Model of a homogeneous isotropic turbulent flow and its application for the simulation of cloud drop tracks, Geophys Astrophys Fluid Dyn 81(1-2) 33-55 (Dec 1995), 8T978
Generation of nearly isotropic turbulence using two oscillating grids, Exp Fluids 20(5) 395-397 (Mar 1996), 9A1181
Development of a technique to calculate the propeller jet effect on transonic flow around a wing, TsAGI 1(3) 63-72 (1994), 10A1088
Evaluation of the dynamic model for simulations of compressible decaying isotropic turbulence, AIAA J 34(5) 990-998 (May 1996), 10A1172
Necking in non-isothermal high-speed spinning as a problem of sensitivity to external disturbances, J Non-Newtonian Fluid Mech 63(1) 33-43 (Mar 1996), 10A1173
Trinomial generalized cantor set model for isotropic turbulence, J Phys Soc Japan 65(4) 873-875 (Apr 1996), 10A1174
Experimental study of a reactive plume in grid turbulence, J Fluid Mech 312 373-407 (Apr 1996), 10A1179
Experimental study of a normal shock-homogeneous turbulence interaction, AIAA J 34(5) 968-974 (May 1996), 10A1181
Non-Gaussian scalar statistics in homogeneous turbulence, J Fluid Mech 313 241-282 (Apr 1996), 11A989
Random-flight evaluation of the constants of relative dispersion in idealized turbulence, J Fluid Mech 316 139-161 (Jun 1996), 12A1147

372E. Compressibility effects

Study of the shock motion in a hypersonic shock system-turbulent boundary layer interaction, Exp Fluids 19(3) 143-149 (Jul 1995), 1A1047
Asymptotic two-layer model for supersonic turbulent boundary layers, J Fluid Mech 295 159-198 (Jul 1995), 1A1078
Effect of counterflow on the development of compressible shear layers, J Fluid Mech 308 63-96 (Feb 1996), 8A915
Evaluation of the dynamic model for simulations of compressible decaying isotropic turbulence, AIAA J 34(5) 990-998 (May 1996), 10A1172
Assessment of turbulence and chemistry models for film-cooled nozzle flows, J Thermophys Heat Transfer 10(2) 284-289 (Jun 1996), 10A1175

372F. Free shear layers

50 years of turbulence research in China, Annu Rev Fluid Mech 27 1-15 (1995), 2T983
Effect of vortex pairing on particle dispersion and kinetic energy transfer in a two-phase turbulent shear layer, J Fluid Mech 302 149-178 (Nov 1995), 4A1003
Compressibility effects and mixing enhancement in turbulent free shear flows, AIAA J 33(12) 2332-2338 (Dec 1995), 4A1074
Unified turbulence closure model for axisymmetric and planar free shear flows, AIAA J 33(12) 2325-2331 (Dec 1995), 4A1075
Structure of highly sheared turbulence, J Fluid Mech 303 155-167 (Nov 1995), 4A1082
Experiments on subharmonic resonance in a shear layer, J Fluid Mech 304 343-372 (Dec 1995), 6A987
Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, Mech Res Commun 23(1) 91-102 (Feb 1996), 7T1115
Comparison of numerical schemes in large-eddy simulation of the temporal mixing layer, Int J Numer Methods Fluids 22(4) 297-311 (Feb 1996), 7A1134
Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, Exp Fluids 20(4) 279-290 (Feb 1996), 8A965
Measurements of scalar power spectra in high Schmidt number turbulent jets, J Fluid Mech 308 129-146 (Feb 1996), 8A979
Structure of shear-driven mixing with an unstable thermal stratification, J Fluids Eng 118(1) 55-60 (Mar 1996), 9A1074
Evolution of a jet with vortex-generating tabs: Real-time visualization and quantitative measurements, J Fluid Mech 311 73-118 (Mar 1996), 9A1162
Vorticity characteristics of the turbulent intermediate wake, Exp Fluids 20(5) 383-392 (Mar 1996), 9A1182
Velocity field of the turbulent very near wake of a circular cylinder, Exp Fluids 20(6) 441-453 (Apr 1996), 10A1160
Large-eddy simulation of turbulent confined coannular jets, J Fluid Mech 315 387-411 (May 1996), 11A990
Vortical structure morphology in the initial region of a forced mixing layer: Roll-up and pairing, J Fluid Mech 315 175-221 (May 1996), 11A991
Axis switching and spreading of an asymmetric jet: The role of coherent structure dynamics, J Fluid Mech 316 1-27 (Jun 1996), 12A1129
Mixing in turbulent jets: Scalar measures and isosurface geometry, J Fluid Mech 317 369-406 (Jun 1996), 12A1148
Simulation of mixing layers driven by compound buoyancy and shear, J Fluids Eng 118(2) 370-376 (Jun 1996), 12A1152
Experimental study of the fine-scale structure of conserved scalar mixing in turbulent shear flows - Part 1: Sc ≫ 1, J Fluid Mech 317 21-71 (Jun 1996), 12A1153

372G. Boundary layers

Study of the shock motion in a hypersonic shock system-turbulent boundary layer interaction, Exp Fluids 19(3) 143-149 (Jul 1995), 1A1047
Asymptotic two-layer model for supersonic turbulent boundary layers, J Fluid Mech 295 159-198 (Jul 1995), 1A1078
Shear-free turbulent boundary layers - Part 1: Physical insights into near-wall turbulence, J Fluid Mech 295 199-227 (Jul 1995), 1A1079
Shear-free turbulent boundary layers - Part 2: New concepts for Reynolds stress transport equation modeling of inhomogeneous flows, J Fluid Mech 295 229-245 (Jul 1995), 1A1080
Progress in the research of the dynamical structure in wall turbulence, JSME Int J Ser B 38(3) 335-345 (Aug 1995), 1A1084
Wall-wake model for the turbulence structure of boundary layers - Part 1: Extension of the attached eddy hypothesis, J Fluid Mech 298 361-388 (Sep 1995), 2A940
50 years of turbulence research in China, Annu Rev Fluid Mech 27 1-15 (1995), 2T983
Turbulent boundary layer manipulation by outer-layer devices, Meccanica 30(4) 359-376 (Aug 1995), 2A984
Wall-wake model for the turbulence structure of boundary layers - Part 2: Further experimental support, J Fluid Mech 298 389-407 (Sep 1995), 2A985
Further note "On the magnitude and apparent range of variation of the von Karman constant", Boundary-Layer Meteorol 75(3) 315-317 (Aug 1995), 3T970
Turbulent free-surface flow over sills, J Hydraul Res 33(5) 663-682 (1995), 4A923
Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, Exp Fluids 19(6) 405-416 (Oct 1995), 4A1076
Pressure correlations on a rough cone in turbulent shear flow, J Wind Eng Indust Aerodyn 58(1-2) 1-18 (Oct 1995), 4A1077
Spectral contribution of coherent motions in a turbulent boundary layer, Eur J Mech B 14(6) 697-718 (1995), 4A1087
Particle detachment from rough surfaces in turbulent flows, J Adhesion 51(1-4) 105-123 (1995), 5A923
Simple, accurate integral solution for accelerating turbulent boundary layers with transpiration, J Fluids Eng 117(3) 535-538 (Sep 1995), 5T926
Effect of body geometry and incident flow characteristics on the distortion of turbulence, J Wind Eng Indust Aerodyn 58(3) 175-203 (Dec 1995), 5T962
Analysis of two-point velocity measurements in near-wall flows, Exp Fluids 20(2) 68-83 (Dec 1995), 6A988
Characteristics of single and clusters of bursting events in the inner layer - Part 1: Vita events, Exp Fluids 20(2) 112-124 (Dec 1995), 6A989
Coherent motions and heat transfer in a wall turbulent shear flow, J Fluid Mech 305 127-157 (Dec 1995), 6A990

Experimental determination of mixing length in the buffer layer of a turbulent boundary layer, Exp Thermal Fluid Sci 12(3) 298-304 (Apr 1996), 8T940
Turbulence production in flow over a wavy wall, Exp Fluids 20(4) 257-265 (Feb 1996), 8A980
Turbulent boundary layer on a moving continuous plate, Fluid Dyn Res 17(4) 181-194 (Mar 1996), 8A981
Wall-vorticity flux dynamics in a 2D turbulent boundary layer, J Fluid Mech 309 45-84 (Feb 1996), 8A982
Modeling of bed shear stress under irregular waves, Arch Hydro-Eng Env Mech 52(1-2) 29-51 (1995), 9A1183
Scaling of mean square vorticity in turbulent flows, Exp Fluids 20(5) 393-394 (Mar 1996), 9T1184
Structure of near-wall turbulence downstream of a wall mounted protrusion: An interesting Reynolds stress suppression phenomena, Exp Fluids 20(5) 365-376 (Mar 1996), 9A1185
Velocity profile in shallow coastal waters, J Hydraul Eng 122(4) 220-223 (Apr 1996), 9T1399
Mechanics of Liquids and Gases, Sixth Augmented Edition (Begell House, New York, 1996) 10N29
Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, TsAGI 1(1) 63-69 (1994), 10A1176
Turbulent boundary-layer flow over fixed aerodynamically rough 2D sinusoidal waves, J Fluid Mech 312 1-37 (Apr 1996), 10A1177
Hydrodynamic damping force on a cylinder in oscillatory, very-high-Reynolds-number flows, Appl Ocean Res 17(5) 291-300 (1995), 11A214
Forces and moments in incompressible quasi-potential flows, J Fluids Struct 10(3) 281-303 (Apr 1996), 11T871
Effects of periodic wake structures on turbulent boundary layers, J Fluids Struct 10(3) 269-280 (Apr 1996), 11A992
Inverse integral method for nonequilibrium turbulent boundary layers, Mec Appl 40(4-6) 479-484 (Dec 1995), 11A993
Mechanism of turbulent coherent structure - II: A physical model of coherent structure for the rough boundary layer, Appl Math Mech 17(3) 197-203 (Mar 1996), 11A994
Aeroelasticity (Dover, Mineola NY, 1996) 12N5
Nonlinear Mathematics and its Applications (Cambridge UP, New York, 1996) 12N7
Advances in 3D turbulent boundary layers with emphasis on the wall-layer regions, J Fluids Eng 118(2) 219-232 (Jun 1996), 12A1097
Experimental study of a 3D pressure-driven turbulent boundary layer, J Fluids Eng 118(2) 416-418 (Jun 1996), 12T1149
High freestream turbulence effects on turbulent boundary layers, J Fluids Eng 118(2) 276-284 (Jun 1996), 12A1150
New low-Reynolds-number k-e model for turbulent flow over smooth and rough surfaces, J Fluids Eng 118(2) 255-259 (Jun 1996), 12A1155
Von Karman constant determined by large eddy simulation, Boundary-Layer Meteorol 78(1-2) 143-164 (Feb 1996), 12A1423

372H. Pipe and channel flow

LDA measurements in the near-wall region of a turbulent pipe flow, J Fluid Mech 295 305-335 (Jul 1995), 1A246
Calculation method for developing turbulent flow in rectangular ducts of arbitrary aspect ratio, J Fluids Eng 117(2) 249-258 (Jun 1995), 1A1081
Turbulent flow in an intake-manifold, Forschung Ingenieur 61(7-8) 195-200 (Aug 1995), 1A1082
Alignments and small scale structure in turbulent pipe flow, Fluid Dyn Res 16(5) 297-310 (Oct 1995), 2A986
Direct numerical simulation of turbulent flow over a modeled riblet covered surface, J Fluid Mech 302 333-376 (Nov 1995), 4A1078
Structure of turbulence in an incipient-separating axisymmetric flow, J Fluids Eng 117(3) 433-438 (Sep 1995), 5A963
Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, J Fluids Eng 117(3) 417-423 (Sep 1995), 5A969
Numerical study of turbulent supersonic isothermal-wall channel flow, J Fluid Mech 305 159-183 (Dec 1995), 6A921
Compressible turbulent channel flows: DNS results and modeling, J Fluid Mech 305 185-218 (Dec 1995), 6A991
Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, Exp Fluids 20(3) 165-177 (Jan 1996), 7A1130
Modeling of turbulent flow through intake systems of internal combustion engines: Large valve lifts, J Brazilian Soc Mech Sci 17(4) 373-379 (1995), 8A953
Dynamic effects of centrifugal forces on turbulence, J Appl Mech 63(1) 84-94 (Mar 1996), 9A317
Calculations of wall shear stress in harmonically-oscillated turbulent pipe flow using a low-Reynolds-number k-e, J Fluids Eng 118(1) 189-194 (Mar 1996), 9A1186
Friction factor for accelerated turbulent flow through long smooth pipes, Prace Inst Maszyn Przeplywowych 0(99) 89-103 (1995), 9A1187
Topology of fine-scale motions in turbulent channel flow, J Fluid Mech 310 269-292 (Mar 1996), 9A1188
Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, Exp Fluids 20(6) 417-428 (Apr 1996), 10A1146
Tables for the Calculation of Resistance in Internal Flows (Telford, London, 1995) 12N44

372I. Stratified flows

Energetics of grid turbulence in a stably stratified fluid, J Fluid Mech 296 127-157 (Aug 1995), 1A1083
Random sweeping decorrelation hypothesis stratified turbulent flows, Fluid Dyn Res 16(5) 275-295 (Oct 1995), 2A987
Source-sink turbulence in a rotating stratified fluid, J Fluid Mech 298 81-112 (Sep 1995), 2A989
Plumes with non-monotonic mixing behavior, Geophys Astrophys Fluid Dyn 79(1-4) 173-199 (Aug 1995), 3A953
Derivation of the relationship between the Obukhov stability parameter and the bulk Richardson number for flux-profile studies, Boundary-Layer Meteorol 76(1-2) 165-179 (Oct 1995), 5A964
Karhunen-Loeve analysis of turbulent thermal convection, Int J Numer Methods Fluids 22(1) 67-79 (Jan 1996), 6A992
Onset of stratification in the mixed layer subjected to a stabilizing buoyancy flux, J Fluid Mech 304 27-46 (Dec 1995), 6A993
Spectrum of stably stratified turbulent shear flow, Acta Geophys Polonica 43(2) 175-179 (1995), 6A994
Linear dynamics of wind waves in coupled turbulent air-water flow - Part 2: Numerical model, J Fluid Mech 308 219-254 (Feb 1996), 8A202
Surface manifestations of turbulent flow, J Fluid Mech 308 15-29 (Feb 1996), 8A893
Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, Exp Fluids 20(4) 279-290 (Feb 1996), 8A965
Laboratory simulation of mixing across tidal fronts, J Fluid Mech 309 321-344 (Feb 1996), 8A983
Structure of shear-driven mixing with an unstable thermal stratification, J Fluids Eng 118(1) 55-60 (Mar 1996), 9A1074
Entrainment in a shear-free turbulent mixing layer, J Fluid Mech 310 215-241 (Mar 1996), 9A1189
Turbulence, similarity scaling, and vortex geometry in the wake of a towed sphere in a stably stratified fluid, J Fluid Mech 314 53-103 (May 1996), 11A974
Internal waves, turbulence, and mixing in stratified flows: A report on Euromech Colloquium 339, J Fluid Mech 314 349-371 (May 1996), 11A995
Possible explanation of countergradient fluxes in homogeneous turbulence, Theor Comput Fluid Dyn 8(3) 169-181 (1996), 11A996
Diascalar flux and the rate of fluid mixing, J Fluid Mech 317 179-193 (Jun 1996), 12A1151
Simulation of mixing layers driven by compound buoyancy and shear, J Fluids Eng 118(2) 370-376 (Jun 1996), 12A1152

372J. Rotating flows or surfaces

Prediction of turbulent swirling flows in axisymmetric annuli, Appl Math Model 19(10) 613-620 (Oct 1995), 2A988
Source-sink turbulence in a rotating stratified fluid, J Fluid Mech 298 81-112 (Sep 1995), 2A989
Navier-Stokes analysis of a controlled-diffusion compressor cascade at increasing inlet flow angles, Int J Turbo Jet Engines 12(3) 161-172 (1995), 6A1029
Computation of flow development through stationary and rotating U-ducts of strong curvature, Int J Heat Fluid Flow 17(1) 22-33 (Feb 1996), 8A894
Asymptotic theory of broadband rotor thrust - Part I: Manipulations of flow probabilities for a high number of blades, J Appl Mech 63(1) 136-142 (Mar 1996), 9A230
Asymptotic theory of broadband rotor thrust - Part II: Analysis of the right frequency shift of the maximum response, J Appl Mech 63(1) 143-148 (Mar 1996), 9A231
Two-layer approximate boundary conditions for large-eddy simulations, AIAA J 34(6) 1111-1119 (Jun 1996), 11A997

372K. Non-Newtonian flow

Turbulent expansion flow of low molecular weight shear-thinning solutions, Exp Fluids 20(1) 42-55 (Nov 1995), 5A965
Fractal dimension and intermittency coefficients of certain flow variables in Newtonian and non-Newtonian turbulent flows, J Non-Newtonian Fluid Mech 62(2-3) 207-224 (Feb 1996), 8A83

372L. Heat and mass transfer (diffusion, dispersion, etc)

Analysis of unsteady forced convection in turbulent duct flow, J Thermophys Heat Transfer 9(3) 508-515 (Sep 1995), 1A1172
Prediction of turbulent heat transfer in the entrance of an array of heated blocks using low-Reynolds-number k-e model, Numer Heat Transfer A 28(3) 263-277 (Sep 1995), 1A1183
Numerical study of the compressible turbulent flow in a laser cavity, Int J Heat Mass Transfer 38(14) 2623-2633 (Sep 1995), 1A1193
Numerical analysis of deterioration phenomena in heat transfer to supercritical water, Int J Heat Mass Transfer 38(16) 3077-3084 (Nov 1995), 1A1206
Simulation of ice cover melting in turbulent flow, Int J Numer Methods Heat & Fluid Flow 5(7) 647-663 (Sep 1995), 1A1217
Heat and mass transfer coupling between vaporizing droplets and turbulence using a Lagrangian approach, Int J Heat Mass Transfer 38(16) 3023-3034 (Nov 1995), 1A1244
Analysis of laser beam deviation fluctuations in a turbulent nonisothermal flow and relevance to eg, Int J Heat Mass Transfer 38(17) 3135-3142 (Nov 1995), 2A990
Nonequilibrium anisotropic eddy-viscosity and diffusivity turbulence model for heated turbulent flows, AIAA J 33(9) 1738-1740 (Sep 1995), 2T991
Refined similarity hypotheses for passive scalars mixed by turbulence, J Fluid Mech 297 275-291 (Aug 1995), 2A992
Direct numerical simulation of a turbulent open channel flow with passive heat transfer, Int J Heat Mass Transfer 38(17) 3241-3251 (Nov 1995), 2A1085
Influence of turbulence parameters, Reynolds number, and body shape on stagnation-region heat transfer, J Heat Transfer 117(3) 597-603 (Aug 1995), 3A1061
Computational study of turbulent diffusion in a thermally-stratified channel with obstruction, J Wind Eng Indust Aerodyn 58(1-2) 19-32 (Oct 1995), 4A1079
Experimental thermal and fluid science, Exp Thermal Fluid Sci 11(3) 226-309 (Oct 1995), 4A1240
Fibrous particle decomposition in a turbulent channel flow: An experimental study, Aerosol Sci Tech 23(4) 641-652 (Nov 1995), 4A1285
Fluctuations in dense gas concentrations measured in a wind-tunnel, Boundary-Layer Meteorol 75(4) 321-352 (Sep 1995), 4A1360
Mathematical model for the density-augmented spreading of a particle-laden discharge in a turbulent shallow-water flow, J Eng Math 29(6) 497-516 (Nov 1995), 4A1361
Effects of elevated free-stream turbulence on flow and thermal structures in transitional boundary layers, J Turbomachinery 117(3) 407-417 (Jul 1995), 5A937
Account of free-stream-turbulence length scale on laminar heat transfer, J Turbomachinery 117(3) 401-406 (Jul 1995), 5A966
Enhanced heat transfer and shear stress due to high free-stream turbulence, J Turbomachinery 117(3) 418-424 (Jul 1995), 5A967
Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, Int J Heat Fluid Flow 16(5) 398-404 (Oct 1995), 5A1126
Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, Int J Heat Fluid Flow 16(5) 389-397 (Oct 1995), 5A1127
Prediction of turbulent thermal convection in concentric and eccentric horizontal annuli, Int J Heat Fluid Flow 16(5) 429-439 (Oct 1995), 5A1133
Coherent vortices in thermally stratified and rotating turbulence, Int J Heat Fluid Flow 16(5) 315-326 (Oct 1995), 5A1137
Mathematical model of transfer of momentum and heat in disperse turbulent jet flows, Heat Transfer Res 25(7) 894-898 (1993), 5A1164
Heat Transfer in Turbulent Flows, HTD-Vol 318 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N32
Coherent motions and heat transfer in a wall turbulent shear flow, J Fluid Mech 305 127-157 (Dec 1995), 6A990
Velocity field measurements of cavitating flows, Exp Fluids 20(2) 125-130 (Dec 1995), 6A995
Mean flow characteristics of a 3D turbulent wall jet over an isothermal and an insulating flat surface, Heat and Mass Transfer Warme 31(1-2) 89-93 (Dec 1995), 6A1067
Asymptotic study of heat transfer in the entrance region of turbulent channel and pipe flows (German), Heat and Mass Transfer Warme 31(1-2) 65-76 (Dec 1995), 6A1068
Turbulent near-wall model on convective heat transfer from an abrupt expansion tube, Heat and Mass Transfer Warme 31(1-2) 33-40 (Dec 1995), 6A1073
Variant of the low-Reynolds-number two-equation turbulence model applied to variable property mixed convection flows, Int J Heat Fluid Flow 16(6) 486-492 (Dec 1995), 6A1092
Turbulent Prandtl number in the near-wall region for low-Prandtl-number gas mixtures, Int J Heat Mass Transfer 39(6) 1287-1295 (Apr 1996), 7A1131
Model of a homogeneous isotropic turbulent flow and its application for the simulation of cloud drop tracks, Geophys Astrophys Fluid Dyn 81(1-2) 33-55 (Dec 1995), 8T978
Evolution of helicity in the presence of turbulence: The limit of passive diffusion, Geophys Astrophys Fluid Dyn 81(1-2) 73-99 (Dec 1995), 8T984
New near-wall two-equation model for turbulent heat transport, Numer Heat Transfer A 29(4) 417-440 (Mar 1996), 8A985
Numerical modeling of variable density turbulent jets, Int J Heat Mass Transfer 39(9) 1865-1882 (Jun 1996), 8A1115
Turbulence, Heat, and Mass Transfer - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey (Begell House, New York, 1995) 9N21
Entrainment in a shear-free turbulent mixing layer, J Fluid Mech 310 215-241 (Mar 1996), 9A1189
Simultaneous concentration and velocity measurements using combined laser-induced fluorescence and laser Doppler velocimetry: Application to turbulent transport, Exp Fluids 20(5) 319-327 (Mar 1996), 9A1201
Effect of turbulence on heat transfer in stagnation flow, J Thermophys Heat Transfer 10(2) 290-296 (Jun 1996), 10A1178
Turbulent forced convection in a helicoidal pipe with substantial pitch, Int J Heat Mass Transfer 39(10) 2015-2022 (Jul 1996), 10A1252
Equations for the concentration probability distribution function in turbulent mixing and combustion problems, TsAGI 1(3) 3-36 (1994), 10T1358
Non-Gaussian scalar statistics in homogeneous turbulence, J Fluid Mech 313 241-282 (Apr 1996), 11A989
Elements of a general correlation for turbulent heat transfer, J Heat Transfer 118(2) 287-293 (May 1996), 11A1098
Variation of temperature and velocity fluctuations in turbulent thermal convection over horizontal surfaces, Int J Heat Mass Transfer 39(11) 2303-2310 (Jul 1996), 11A1104
Artificial roughness effects on turbulent transfer coefficients in the entrance region of a circular tube, Int J Heat Mass Transfer 39(12) 2515-2523 (Aug 1996), 11A1105
Heat transfer in separated and impinging turbulent flows, Int J Heat Mass Transfer 39(12) 2385-2400 (Aug 1996), 11A1137
Random-flight evaluation of the constants of relative dispersion in idealized turbulence, J Fluid Mech 316 139-161 (Jun 1996), 12A1147
Mixing in turbulent jets: Scalar measures and isosurface geometry, J Fluid Mech 317 369-406 (Jun 1996), 12A1148
Experimental study of the fine-scale structure of conserved scalar mixing in turbulent shear flows - Part 1: Sc ≫ 1, J Fluid Mech 317 21-71 (Jun 1996), 12A1153
Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, Boundary-Layer Meteorol 77(3-4) 267-284 (Feb 1996), 12A1415

372N. Geophysical turbulence

Theoretical turbulence modeling of homogeneous decaying flow in a rotating frame, J Phys Soc Japan 64(8) 2854-2867 (Aug 1995), 1A1077
Turbulence in the ocean, atmosphere, galaxy, and universe, Appl Mech Rev 49(5) 299-315 (May 1996), 7A1128
Turbulent magnetohydrodynamic dynamo: Modeling of the turbulent residual-helicity equation, J Phys Soc Japan 65(1) 124-132 (Jan 1996), 7A1138
Algebraic probability density tails in decaying isotropic 2D turbulence, J Fluid Mech 313 223-240 (Apr 1996), 11A998
Classification of self-organized vortices in 2D turbulence: The case of a bounded domain, J Fluid Mech 314 267-297 (May 1996), 11A999
Structure of the vortices in freely-decaying 2D turbulence, J Fluid Mech 313 209-222 (Apr 1996), 11A1000
Diascalar flux and the rate of fluid mixing, J Fluid Mech 317 179-193 (Jun 1996), 12A1151

372O. Nonequilibrium and chemical effects

Large eddy simulation of reacting flows applied to bluff body stabilized flames, AIAA J 33(12) 2339-2347 (Dec 1995), 4A1080

Prediction of nonequilibrium turbulent flows with explicit algebraic stress models, AIAA J 33(11) 2026-2031 (Nov 1995), 4A1081

Experimental study of a reactive plume in grid turbulence, J Fluid Mech 312 373-407 (Apr 1996), 10A1179

Structure of nonpremixed reaction zones in numerical isotropic turbulence, Theor Comput Fluid Dyn 8(3) 201-218 (1996), 11A1001

372P. Intermittency and other flow structure

Shear-free turbulent boundary layers - Part 1: Physical insights into near-wall turbulence, J Fluid Mech 295 199-227 (Jul 1995), 1A1079

Shear-free turbulent boundary layers - Part 2: New concepts for Reynolds stress transport equation modeling of inhomogeneous flows, J Fluid Mech 295 229-245 (Jul 1995), 1A1080

Progress in the research of the dynamical structure in wall turbulence, JSME Int J Ser B 38(3) 335-345 (Aug 1995), 1A1084

Alignments and small scale structure in turbulent pipe flow, Fluid Dyn Res 16(5) 297-310 (Oct 1995), 2A986

Spatial structure of turbulence at production wavenumbers using orthonormal wavelets, Boundary-Layer Meteorol 75(1-2) 81-108 (Jul 1995), 2A993

Structure and control of a turbulent reattaching flow, J Fluid Mech 298 139-165 (Sep 1995), 2A994

Structure of highly sheared turbulence, J Fluid Mech 303 155-167 (Nov 1995), 4A1082

Three-dimensional reconstruction of coherent structures using image processing techniques, Exp Fluids 19(6) 432-434 (Oct 1995), 4T1083

Transverse vorticity observations in large coherent structures, AIAA J 33(12) 2427-2428 (Dec 1995), 4T1084

Structure of turbulence in an incipient-separating axisymmetric flow, J Fluids Eng 117(3) 433-438 (Sep 1995), 5A963

Coherent motions and heat transfer in a wall turbulent shear flow, J Fluid Mech 305 127-157 (Dec 1995), 6A990

Enstrophy generation in a shock-dominated turbulence, J Phys Soc Japan 65(2) 450-461 (Feb 1996), 8A209

Turbulence production in flow over a wavy wall, Exp Fluids 20(4) 257-265 (Feb 1996), 8A980

Numerical simulations of transitional axisymmetric coaxial jets, AIAA J 34(4) 736-743 (Apr 1996), 9A1135

Structure of near-wall turbulence downstream of a wall mounted protrusion: An interesting Reynolds stress suppression phenomena, Exp Fluids 20(5) 365-376 (Mar 1996), 9A1185

Topology of fine-scale motions in turbulent channel flow, J Fluid Mech 310 269-292 (Mar 1996), 9A1188

Simulation of vortex diffusion effects on jet turbulence characteristics, TsAGI 1(3) 37-50 (1994), 10A1159

Investigation of large-scale structures in supersonic planar base flows, AIAA J 34(6) 1146-1152 (Jun 1996), 11A913

Effects of periodic wake structures on turbulent boundary layers, J Fluids Struct 10(3) 269-280 (Apr 1996), 11A992

Structure of the vortices in freely-decaying 2D turbulence, J Fluid Mech 313 209-222 (Apr 1996), 11A1000

Exponents of the structure functions in a low temperature helium experiment, Physica D 93(1-2) 52-63 (May 1996), 11A1002

Measurements of the turbulence structure in the vicinity of a 3D separation, J Fluids Eng 118(2) 268-275 (Jun 1996), 12A1110

372Q. Modeling of turbulence

Transition, Turbulence, and Noise: Theory and Applications for Scientists and Engineers (Kluwer, Norwell MA, 1994) 1R24

Application of turbulence models to separated flow over rough surfaces, J Fluids Eng 117(2) 234-241 (Jun 1995), 1A1050

Compound-channel flows: A parametric study using a Reynolds-stress transport closure, J Hydraul Res 33(3) 307-320 (1995), 1T1053

Calculation method for developing turbulent flow in rectangular ducts of arbitrary aspect ratio, J Fluids Eng 117(2) 249-258 (Jun 1995), 1A1081

Anisotropic subgrid modeling, Eur J Mech B 14(4) 459-486 (1995), 1T1085

Comparison of different turbulence models for prediction of slot-film cooling: Flow and temperature field, Numer Heat Transfer B 28(2) 217-238 (Sep 1995), 1A1086

New Reynolds stress algebraic equation model, Comput Methods Appl Mech Eng 125(1-4) 287-302 (Sep 1995), 1A1087

Nonlinear low-Reynolds-number k-ε model for turbulent separated and reattaching flows - I: Flow field computations, Int J Heat Mass Transfer 38(14) 2657-2666 (Sep 1995), 1A1088

Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf (ASME Press, New York, 1995) 2N46

Wall-wake model for the turbulence structure of boundary layers - Part 1: Extension of the attached eddy hypothesis, J Fluid Mech 298 361-388 (Sep 1995), 2A940

Random sweeping decorrelation hypothesis stratified turbulent flows, Fluid Dyn Res 16(5) 275-295 (Oct 1995), 2A987

Spatial structure of turbulence at production wavenumbers using orthonormal wavelets, Boundary-Layer Meteorol 75(1-2) 81-108 (Jul 1995), 2A993

Evaluation of turbulence models for unsteady flows of an oscillating airfoil, Comput Fluids 24(7) 833-861 (Sep 1995), 2A1035

Analysis of the Baldwin-Barth and Spalart-Allmaras one-equation turbulence models, AIAA J 33(10) 1971-1974 (Oct 1995), 3T971

Near-wall integration of Reynolds stress turbulence closures with no wall damping, AIAA J 33(10) 1974-1977 (Oct 1995), 3T972

High performance spectral simulation of turbulent flows in massively parallel machines with distributed memory, Int J Supercomput Appl High Perform Comput 9(3) 187-204 (1 1995), 3A974

Turbulence modeling of internal combustion engines using RNG k-ε models, Combust Sci Tech 106(4-6) 267-295 (Jun 1995), 3A1243

Effect of vortex pairing on particle dispersion and kinetic energy transfer in a two-phase turbulent shear layer, J Fluid Mech 302 149-178 (Nov 1995), 4A1003

Capturing of transition by the RNG based algebraic turbulence model, Comput Fluids 24(8) 909-918 (Nov 1995), 4A1022

Computational study of turbulent diffusion in a thermally-stratified channel with obstruction, J Wind Eng Indust Aerodyn 58(1-2) 19-32 (Oct 1995), 4A1079

Prediction of nonequilibrium turbulent flows with explicit algebraic stress models, AIAA J 33(11) 2026-2031 (Nov 1995), 4A1081

Explicit algebraic heat-flux model for the temperature field, Int J Heat Mass Transfer 39(3) 455-465 (Feb 1996), 4A1085

Rivlin-Eriksen's theorem application to a turbulence model, Eur J Mech B 14(5) 557-576 (1995), 4T1086

Spectral contribution of coherent motions in a turbulent boundary layer, Eur J Mech B 14(6) 697-718 (1995), 4A1087

Viscous subrange determines inertial range properties in turbulence shell models, Physica D 88(1) 40-54 (Nov 1995), 4A1088

Application of Roe's flux-difference splitting for k-ε turbulence model, Int J Numer Methods Fluids 21(11) 1017-1039 (Dec 1995), 4A1089

Comparison of different k-ε models for indoor air flow computations, Numer Heat Transfer B 28(3) 353-369 (Nov 1995), 4A1173

Structural parameters and prediction of adverse pressure gradient turbulent flows: An improved k-ε model, J Fluids Eng 117(3) 424-432 (Sep 1995), 5A946

Effect of Reynolds number on isotropic turbulent dispersion, J Fluids Eng 117(3) 402-409 (Sep 1995), 5A961

Investigation of multiple-time-scale Reynolds stress model in homogeneous anisotropic turbulence, Int J Heat Fluid Flow 16(5) 417-428 (Oct 1995), 5A968

Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, J Fluids Eng 117(3) 417-423 (Sep 1995), 5A969

Note on the Baldwin-Lomax turbulence model, J Fluids Eng 117(3) 528-531 (Sep 1995), 5T970

Optimal theory for an expansion of flow quantities to capture the flow structures, Fluid Dyn Res 17(2) 67-85 (Jan 1996), 5A971

Renormalization group based k-ε turbulence model for flows in a duct with strong curvature, Int J Eng Sci 34(2) 243-248 (Jan 1996), 5A972

Vorticity transport analysis of turbulent flows, J Fluids Eng 117(3) 410-416 (Sep 1995), 5A973

Comparative evaluation of different turbulence models for confined impinging and opposing jet flows, Numer Heat Transfer A 28(6) 647-666 (Dec 1995), 5A1138

Trajectories of burning coal particles in highly swirling reactive flows, Int J Heat Fluid Flow 16(5) 440-450 (Oct 1995), 5A1262

Characteristics of single and clusters of bursting events in the inner layer - Part 1: Vita events, Exp Fluids 20(2) 112-124 (Dec 1995), 6A989

Compressible turbulent channel flows: DNS results and modeling, J Fluid Mech 305 185-218 (Dec 1995), 6A991

Interferometric study of organized structures in wakes of circular cylinders, Exp Fluids 20(2) 91-99 (Dec 1995), 6A996

New trends in large-eddy simulations of turbulence, Annu Rev Fluid Mech 28 45-82 (1996), 6A997

Numerical models for two-phase turbulent flows, Annu Rev Fluid Mech 28 11-43 (1996), 6A998

Turbulent line momentum puffs, J Eng Mech 122(1) 19-29 (Jan 1996), 6A999

Large eddy simulation of a symmetric trapezoidal channel at a Reynolds number of 430,000, J Hydraul Res 33(6) 825-842 (1995), 7T1046

Computation of turbulent axisymmetric and nonaxisymmetric jet flows using the K-ε model, AIAA J 34(2) 309-316 (Feb 1996), 7A1109

Inertial-range scaling laws, J Fluid Mech 306 167-181 (Jan 1996), 7A1127

Experimental analysis of scaling laws in low R_λ grid-generated turbulence, Exp Fluids 20(3) 199-209 (Jan 1996), 7A1129

Spectral transport model for turbulence, Theor Comput Fluid Dyn 8(1) 1-35 (1996), 7A1132

Numerical study of 3D Kolmogorov flow at high Reynolds numbers, J Fluid Mech 306 293-323 (Jan 1996), 7A1135

Interaction of turbulent coherent structures and small-scale structures, Appl Math Mech 16(12) 1175-1183 (Dec 1995), 8A214

Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part 1: Velocity field, J Fluid Mech 309 113-156 (Feb 1996), 8A977

Experimental study of the effects of three-dimensionality on the near-wall turbulence structures using flow visualization, Exp Fluids 20(4) 266-272 (Feb 1996), 8A986

K-3 stagnation point anomaly, Int J Heat Fluid Flow 17(1) 89-90 (Feb 1996), 8T987

Local models of spatio-temporally complex fields, Physica D 90(4) 387-407 (Feb 1996), 8A988

Subgrid-Scale modeling at low mesh Reynolds number, Theor Comput Fluid Dyn 8(2) 131-143 (1996), 8A989

E-ε modeling of turbulent air flow downwind of a model forest edge, Boundary-Layer Meteorol 77(1) 21-44 (Jan 1996), 8T1362

Turbulence modeling over 2D hills using an algebraic Reynolds Stress expression, Boundary-Layer Meteorol 77(1) 69-99 (Jan 1996), 8T1366

Modification of the k-ε turbulence model for swirling recirculating flow in a pipe expansion, Int J Comput Fluid Dyn 5(3-4) 263-279 (1995), 9A1145

Calculations of wall shear stress in harmonically-oscillated turbulent pipe flow using a low-Reynolds-number k-ε, J Fluids Eng 118(1) 189-194 (Mar 1996), 9A1186

Analysis of numerical errors in large-eddy simulations of turbulence, J Comput Phys 125(1) 187-206 (Apr 1996), 9A1190

Comparison of eddy viscosity-transport turbulence models for 3D, shock-separated flowfields, AIAA J 34(4) 756-763 (Apr 1996), 9A1191

Comparison of four turbulence models for wall-bounded flows affected by transverse curvature, AIAA J 34(4) 842-844 (Apr 1996), 9T1192

Equations of complete depth-averaged turbulence model in general orthogonal coordinates, Appl Math Mech 17(1) 53-63 (Jan 1996), 9A1193

Evaluation of algebraic stress modeling in free-surface jet flows, J Fluids Eng 118(1) 48-54 (Mar 1996), 9A1194

Experiments on turbulence management using screens and honeycombs, J Fluids Eng 118(1) 26-32 (Mar 1996), 9A1195

Freestream matching condition for stagnation point turbulent flows: An alternative formulation, J Appl Mech 63(1) 95-100 (Mar 1996), 9A1196

Performance of eddy-viscosity-based turbulence models in 3D turbulent interaction, AIAA J 34(4) 844-847 (Apr 1996), 9T1197

Second-moment closure for 3D turbulent flow around and within complex geometries, Comput Fluids 25(3) 237-262 (Mar 1996), 9A1198

Wingrove parameter: A new turbulence metric, J Aircraft 33(2) 363-368 (Apr 1996), 9A1199

Construction of a third-order accurate monotone convection scheme with application to turbulent flows in general domains, Int J Numer Methods Fluids 22(7) 619-641 (Apr 1996), 9A1200

Turbulent coherent structures in the near wall region of open channel flows, Ingenieria Hidraul Mex 11(1) 5-13 (Apr 1996), 10T1056

Evaluation of the dynamic model for simulations of compressible decaying isotropic turbulence, AIAA J 34(5) 990-998 (May 1996), 10A1172

Application of a nonlinear stress-strain model to axisymmetric turbulent swirling flows, Int J Heat Fluid Flow 17(2) 116-123 (Apr 1996), 11A1003

Development and application of a cubic eddy-viscosity model of turbulence, Int J Heat Fluid Flow 17(2) 108-115 (Apr 1996), 11A1004

Modeling of the turbulent enstrophy equation, Int J Eng Sci 34(6) 699-714 (May 1996), 11A1005

Turbulence model for flow through porous media, Int J Heat Mass Transfer 39(13) 2803-2809 (Sep 1996), 11A1334

Large-eddy simulation of the shear-driven cavity flow using dynamic modeling, Int J Comput Fluid Dyn 6(4) 321-335 (1996), 12T1137

Collaborative testing of turbulence models, J Fluids Eng 118(2) 243-247 (Jun 1996), 12A1154

New low-Reynolds-number k-ε model for turbulent flow over smooth and rough surfaces, J Fluids Eng 118(2) 255-259 (Jun 1996), 12A1155

Second-moment closure for turbulent scalar transport at various Prandtl numbers, Int J Heat Mass Transfer 39(14) 2977-2987 (Sep 1996), 12A1156

372Y. Computational techniques

Transition, Turbulence, and Noise: Theory and Applications for Scientists and Engineers (Kluwer, Norwell MA, 1994) 1R24

Turbulent-flow hydrostatic bearings: Analysis and experimental results, Int J Mech Sci 37(8) 815-829 (Aug 1995), 1A1146

Control-volume based FEM for 3D incompressible turbulent fluid flow, heat transfer, and related phenomena, Int J Numer Methods Fluids 21(7) 591-613 (Oct 1995), 2A12

Introduction of turbulent model in a mixed finite volume and FEM, Int J Numer Methods Fluids 21(8) 667-681 (Oct 1995), 2A15

Chaos and direct numerical simulation in turbulence, Theor Comput Fluid Dyn 7(5) 363-395 (1995), 2A72

Assessment of the SSG pressure-strain model in 2D turbulent separated flows, Appl Sci Res 55(1) 39-61 (Jul 1995), 3A966

Analysis of the stochastic velocity field by proper orthogonal decomposition, J Theor Appl Mech 33(4) 793-807 (1995), 3A973

High performance spectral simulation of turbulent flows in massively parallel machines with distributed memory, Int J Supercomput Appl High Perform Comput 9(3) 187-204 (1 1995), 3A974

Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, AIAA J 33(11) 2073-2079 (Nov 1995), 4A979

Structure of a turbulent double-fin interaction at Mach 4, AIAA J 33(12) 2250-2258 (Dec 1995), 4A1030

Application of Roe's flux-difference splitting for k-ε turbulence model, Int J Numer Methods Fluids 21(11) 1017-1039 (Dec 1995), 4A1089

Computation of the turbulent flow field around an aerofoil by k-ε-γ model in a non-staggered, C-type single-grid system, Commun Numer Methods Eng 11(11) 873-886 (Nov 1995), 4A1090

Simulation of laminar-turbulent transition with an explicit Navier-Stokes flow solver, J Propulsion Power 11(6) 1187-1194 (Dec 1995), 4A1091

Calculation of numerical uncertainty using Richardson extrapolation: Application to some simple turbulent flow calculations, J Fluids Eng 117(3) 439-445 (Sep 1995), 5A974

Unstructured spectral element methods for simulation of turbulent flows, J Comput Phys 122(2) 191-217 (Dec 1995), 5A975

Vortex entities of 2D turbulence in wavenumber space, Chaos 5(4) 687-689 (Dec 1995), 5A976

Influence of water depth on ship stern flows, Ship Tech Res 42(4) 193-197 (Oct 1995), 5A988

Sparse-mode spectral method for the simulation of turbulent flows, J Comput Phys 123(1) 32-44 (Jan 1996), 6A46

Karhunen-Loeve analysis of turbulent thermal convection, Int J Numer Methods Fluids 22(1) 67-79 (Jan 1996), 6A992

Velocity field measurements of cavitating flows, Exp Fluids 20(2) 125-130 (Dec 1995), 6A995

New trends in large-eddy simulations of turbulence, Annu Rev Fluid Mech 28 45-82 (1996), 6A997

Direct numerical simulation of turbulence on a Connection Machine CM-5, Appl Numer Math 19(1-2) 147-158 (Nov 1995), 6A1000

Preconditioner for steady 2D turbulent flow simulation, Int J Numer Methods Heat & Fluid Flow 6(1) 79-93 (Jan 1996), 6A1001

Large eddy simulation of a symmetric trapezoidal channel at a Reynolds number of 430,000, J Hydraul Res 33(6) 825-842 (1995), 7T1046

Archetypal analysis of saptio-temporal dynamics, Physica D 90(3) 209-224 (Feb 1996), 7A1133

Comparison of numerical schemes in large-eddy simulation of the temporal mixing layer, Int J Numer Methods Fluids 22(4) 297-311 (Feb 1996), 7A1134

Numerical study of 3D Kolmogorov flow at high Reynolds numbers, J Fluid Mech 306 293-323 (Jan 1996), 7A1135

Fluid flow and heat transfer characteristics in axisymmetric annular diffusers, Comput Fluids 25(2) 133-150 (Feb 1996), 8A956

Effect of subgrid models on the computed interscale energy transfer in isotropic turbulence, Comput Fluids 25(2) 165-180 (Feb 1996), 8A975

Subgrid-Scale modeling at low mesh Reynolds number, Theor Comput Fluid Dyn 8(2) 131-143 (1996), 8A989
Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, Comput Fluids 25(2) 217-236 (Feb 1996), 8A990
Multi-dimensional mathematic model for processes in cylinder of internal combustion engines (Chinese), J Dalian Univ Tech 36(1) 62-67 (Jan 1996), 8A1288
Generation of nearly isotropic turbulence using two oscillating grids, Exp Fluids 20(5) 395-397 (Mar 1996), 9A1181
Analysis of numerical errors in large-eddy simulations of turbulence, J Comput Phys 125(1) 187-206 (Apr 1996), 9A1190
Construction of a third-order accurate monotone convection scheme with application to turbulent flows in general domains, Int J Numer Methods Fluids 22(7) 619-641 (Apr 1996), 9A1200
Cone-derived wavevrider flowfield simulation including turbulence and off-design conditions, J Spacecraft Rockets 33(2) 185-190 (Apr 1996), 10A1093
Coherent structure formation, phase correlations, and finite-size effects in 2D turbulence, J Sci Comput 10(4) 409-448 (Dec 1995), 10A1180
Efficient method for temporal integration of the Navier-Stokes equations in confined axisymmetric geometries, J Comput Phys 125(2) 454-463 (May 1996), 11A904
Large-eddy simulation of turbulent confined coannular jets, J Fluid Mech 315 387-411 (May 1996), 11A990
Two-layer approximate boundary conditions for large-eddy simulations, AIAA J 34(6) 1111-1119 (Jun 1996), 11A997
Structure of nonpremixed reaction zones in numerical isotropic turbulence, Theor Comput Fluid Dyn 8(3) 201-218 (1996), 11A1001
Supersonic base-flow computation using higher-order closure turbulence models, J Spacecraft Rockets 33(3) 374-380 (Jun 1996), 12A1068

372Z. Experimental techniques

Statistics of temperature increments in fully developed turbulence - Part II: Experiments, Physica D 85(3) 405-424 (Aug 1995), 1A1089
Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N47
Measurement of vorticity in turbulent flows, Annu Rev Fluid Mech 27 469-514 (1995), 2A995
Quantitative molecular-mixing measurements using digital processing of absorption images, Exp Fluids 19(5) 319-327 (Sep 1995), 3A975
Temperature compensation of hot-wire anemometer with photoconductive coil, Exp Fluids 19(5) 362-365 (Sep 1995), 3A1005
Three-dimensional reconstruction of coherent structures using image processing techniques, Exp Fluids 19(6) 432-434 (Oct 1995), 4T1083
Turbulent-flow dye-streak technique, Exp Fluids 20(1) 38-41 (Nov 1995), 5A977
Turbulent concentration determination in gas flow using multiple CCD cameras, J Flow Visualization Image Proc 2(2) 195-208 (1995), 5A1110
Liquid crystal methods for studying turbulent heat transfer, Int J Heat Fluid Flow 16(5) 365-375 (Oct 1995), 5A1160
Characteristics of single and clusters of bursting events in the inner layer - Part 1: Vita events, Exp Fluids 20(2) 112-124 (Dec 1995), 6A989
Interferometric study of organized structures in wakes of circular cylinders, Exp Fluids 20(2) 91-99 (Dec 1995), 6A996
Three-dimensional particle-tracking velocimetry measurement of turbulence statistics and energy budget in a backward-facing step flow, Int J Heat Fluid Flow 16(6) 477-485 (Dec 1995), 6A1002
Numerical near-wall corrections of single hot-wire measurements, Int J Heat Fluid Flow 16(6) 471-476 (Dec 1995), 6A1106
Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, Exp Fluids 20(3) 165-177 (Jan 1996), 7A1130
Design of plane diffusers in turbulent flow, Inverse Prob Eng 2(2) 85-102 (1995), 8A991
Simultaneous concentration and velocity measurements using combined laser-induced fluorescence and laser Doppler velocimetry: Application to turbulent transport, Exp Fluids 20(5) 319-327 (Mar 1996), 9A1201
Experimental study of a normal shock-homogeneous turbulence interaction, AIAA J 34(5) 968-974 (May 1996), 10A1181
Extended self-similarity in anisotropic grid-generated turbulent flow, Eur J Mech B 15(2) 157-173 (1996), 10T1182
Visualization of turbulence anisotropy by single exposure speckle photography, Exp Fluids 20(6) 476-479 (Apr 1996), 10A1183
Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), European J Mech Eng 41(1) 11-17 (1996), 10A1236

374. ELECTROMAGNETO-FLUID AND PLASMA DYNAMICS

374A. General theory

Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, Acta Phys Polonica A 88(3) 419-434 (Sep 1995), 1A1090
Equilibrium plasma subject to skin effect, SIAM J Math Anal 26(5) 1157-1183 (Sep 1995), 1A1091
Global solutions to the isothermal Euler-Poisson plasma model, Appl Math letters 8(1) 19-24 (Jan 1995), 2A996
Antidynamo theorem for partly symmetric flows, Geophys Astrophys Fluid Dyn 80(1-2) 121-128 (Sep 1995), 3T976
Antidynamo theorem for spherically symmetric generation-diffusion conditions, Geophys Astrophys Fluid Dyn 79(1-4) 259-275 (Aug 1995), 3T977
Towards a poloidal magnetic field theorem (German), Geophys Astrophys Fluid Dyn 80(1-2) 129-144 (Sep 1995), 3T978
Magnetohydrodynamic braking, J Trib 117(4) 724-728 (Oct 1995), 5A981
Developments in electrorheological flows, FED-Vol 235/MD-Vol 71 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 7N22
Effect of dielectric constant of the liquid phase of electrorheological Fluids, J Intelligent Mat Syst Struct 6(6) 840-845 (Nov 1995), 7A1136
Notes on the eigensystem of magnetohydrodynamics, SIAM J Appl Math 56(1) 57-67 (Feb 1996), 7A1137
Turbulent magnetohydrodynamic dynamo: Modeling of the turbulent residual-helicity equation, J Phys Soc Japan 65(1) 124-132 (Jan 1996), 7A1138
Low-frequency waves in the plasma environment around the shuttle, J Spacecraft Rockets 33(2) 255-261 (Apr 1996), 10A949
Equations of ionized gas boundary layer and their parametric solutions, Facta Univ Mech Auto Control Robotic 1(5) 619-629 (1995), 12A1157
Magnetohydrodynamic instability of an annular gas jet of double perturbed interfaces, Int J Eng Sci 34(8) 963-973 (Jun 1996), 12A1158

374D. Flow in magnetic fields

Bubble behavior in magnetic fluid under a nonuniform magnetic field, JSME Int J Ser B 38(3) 382-387 (Aug 1995), 1T1092
Initial boundary value problem for the equations of ideal magneto-hydrodynamics, Math Methods Appl Sci 18(11) 841-853 (Sep 1995), 1A1093
MHD plane boundary layer on the body of pours contour, Facta Series Mech Auto Control Robotic 1(3) 323-331 (1993), 1A1094
Steady flow past a circular cylinder coated with magnetic fluid: Flow structure, drag reduction, and coating deformation, J Fluid Mech 295 1-22 (Jul 1995), 1A1095
Drift wave instability and anomalous particle transport in collisional plasmas with high-Z dust impurities, J Phys Soc Japan 64(9) 3145-3148 (Sep 1995), 2A997
Liquid-metal flow in a system of electrically coupled U-bends in a strong uniform magnetic field, J Fluid Mech 299 73-95 (Sep 1995), 2A998
Magnetic damping of jets and vortices, J Fluid Mech 299 153-186 (Sep 1995), 2A999
Magnetohydrodynamic instability in axisymmetric spherical plasma with parallel flow to magnetic field, J Phys Soc Japan 64(9) 3291-3299 (Sep 1995), 2A1000
Nonlinear stability problem for ferromagnetic fluids in a porous medium, Appl Math letters 8(2) 25-29 (Mar 1995), 2A1001
Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, Int J Numer Methods Fluids 21(5) 433-442 (Sep 1995), 2A1002
Surface oscillations of electromagnetically levitated viscous metal droplets, J Fluid Mech 298 341-359 (Sep 1995), 2A1003
Dynamos in weakly chaotic 2D flows, Geophys Astrophys Fluid Dyn 79(1-4) 239-257 (Aug 1995), 3T99
Modeling of the interaction of lower and higher modes in 2D MHD-equations, Nonlinear Anal 26(1) 41-54 (Jan 1996), 3T979
Modification and damping of Alfven waves in a magnetized dusty plasma, J Phys Soc Japan 64(10) 3758-3766 (Oct 1995), 3A980
Nonuniqueness of the MHD flow of a viscoelastic fluid past a stretching sheet, Acta Mech 112(1-4) 223-228 (1995), 3A981
Resistive-MHD winds from rapidly rotating stars, Geophys Astrophys Fluid Dyn 80(1-2) 103-120 (Sep 1995), 3A982
Performance of a finite volume CEM code on multicomputers, Comput Syst Eng 6(3) 241-250 (Jun 1995), 4A53
Spiral coordinates with application to wave propagation, J Fluid Mech 301 153-173 (Oct 1995), 4A255
Experimental study of spherical Couette flow in magnetic fluids: Torque characteristics for outer sphere rotation, JSME Int J Ser B 38(4) 570-575 (Nov 1995), 4T957
Surface stability of liquid conductors in electromagnetic shaping, J Fluid Mech 302 1-28 (Nov 1995), 4A1070
Absolute and convective instability of current-carrying jet of magnetic liquid, Eur J Mech B 14(6) 823-830 (1995), 4A1092
Magnetohydrodynamic flow of second order fluid through a porous medium on an inclined porous plane, Arab J Sci Eng 20(3) 571-580 (Jul 1995), 4A1093
Nonlinear compressible magnetoconvection - Part 3: Traveling waves in a horizontal field, J Fluid Mech 300 287-309 (Oct 1995), 4A1094
Pulsatile magnetohydrodynamic viscoelastic flow through a channel bounded by two permeable parallel plates, J Phys Soc Japan 64(11) 4163-4174 (Nov 1995), 4A1095
Relationship between density and magnetic field fluctuations in the MHD regime, J Phys Soc Japan 64(11) 4487-4488 (Nov 1995), 4T1096
Role of Ekman pumping in confined, electromagnetically-driven flows, Eur J Mech B 14(6) 795-821 (1995), 4A1097
Study of MHD equilibrium and stability for heliotron-torsatron with helical axis, J Phys Soc Japan 64(11) 4175-4184 (Nov 1995), 4A1098
Numerical modeling of DC electromagnetic pump and brake flow, Appl Math Model 19(12) 713-723 (Dec 1995), 4A1103
Double-diffusive convection with two stabilizing gradients: Strange consequences of magnetic buoyancy, J Fluid Mech 301 383-406 (Oct 1995), 4A1244
Effect of pressure gradient on MHD boundary layer over a flat plate, Acta Mech 113(1-4) 1-7 (1995), 5A978
Effects of Hall currents and Coriolis force on Hartmann flow under general wall conditions, Acta Mech 113(1-4) 77-91 (1995), 5A979
Exact solution of the Navier-Stokes equations for magnetohydrodynamic flow, Acta Mech 113(1-4) 241-244 (1995), 5A980
Magnetohydrodynamic braking, J Trib 117(4) 724-728 (Oct 1995), 5A981
Nonlinear stability analysis of magnetohydrodynamic condensate film flow down a vertical plate with constant heat flux, Int J Heat Mass Transfer 39(4) 877-884 (Mar 1996), 5A982
Steady and transient coupled analysis of 3D viscous flow and magnetic field by BEM, Boundary Elements Comm 6(6) 252-258 (31v 1995), 6A42
Hydromagnetic instabilities driven by the Hartmann boundary layer in a rapidly rotating sphere, J Fluid Mech 304 263-283 (Dec 1995), 6A983
Compressible magnetoconvection in 3D: Planforms and nonlinear behavior, J Fluid Mech 305 281-305 (Dec 1995), 6A1003
Dynamics of electrodiffusion probes in developing annular flows, Exp Fluids 20(2) 131-134 (Dec 1995), 6T1004
Liquid-metal flow in an insulated rectangular expansion with a strong transverse magnetic field, J Fluid Mech 305 111-126 (Dec 1995), 6A1005
Static properties and motion of vortices in charged fluids, Physica D 89(1-2) 136-150 (Dec 1995), 6A1007
Finite-element analysis of magnetically driven recirculating flow in electromagnetic near net shape casting, J Mat Processing Tech 55(3-4) 351-359 (Dec 1995), 7A28
Droplet motion in an electrohydrodynamic fine spray, Exp Fluids 20(3) 153-164 (Jan 1996), 7A1139
Linear magnetoconvection in a rotating spherical shell, incorporating a finitely conducting inner core, Geophys Astrophys Fluid Dyn 80(3-4) 205-227 (Nov 1995), 7T1140
Magnetic structures in a dynamo simulation, J Fluid Mech 306 325-352 (Jan 1996), 7A1141
Nonlinear solutions of modified plane Couette flow in the presence of a transverse magnetic field, J Fluid Mech 307 231-243 (Jan 1996), 7A1142
Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, JSME Int J Ser B 39(1) 134-140 (Feb 1996), 7T1143
Three-dimensional kinematic dynamos dominated by strong differential rotation, J Fluid Mech 306 223-265 (Jan 1996), 7A1144
Unsteady hydromagnetic thermal boundary layer with suction, Mech Res Commun 23(1) 81-90 (Feb 1996), 7T1145
Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, JSME Int J Ser B 39(1) 72-79 (Feb 1996), 7A1147
Analytical approach of the solutions of nonadiabatic motion in radiative magnetogasdynamics, Acta Mech 114(1-4) 71-81 (1996), 8A992
Hydromagnetic pulsatile flow of a two-phase fluid, Z Angew Math Mech 76(2) 121-123 (1996), 8T993
Nonsimilar MHD boundary layer flow near an asymmetric plane stagnation point, Z Angew Math Mech 76(2) 81-85 (1996), 8A994
Second-order accurate implicit scheme for strongly-coupled fluid equations applied to fluid electron turbulence in a magnetized plasma, J Comput Phys 124(1) 71-84 (Mar 1996), 8A995
Three-dimensional convection in the presence of strong vertical magnetic fields, Eur J Mech B 15(1) 1-15 (1996), 8A996
Spatio-temporal bifurcations in plasma drift-waves, Physica D 91(3) 301-316 (Mar 1996), 9A300
Buoyant convection during the growth of compound semiconductors by the liquid-encapsulated Czochralski process with an axial magnetic field and with a non-axisymmetric temperature, J Fluids Eng 118(1) 155-159 (Mar 1996), 9A1080
Circulating power of steady state tokamaks, J Phys Soc Japan 65(3) 760-764 (Mar 1996), 9A1202
Equations of motion of vortex-current filaments, J Phys Soc Japan 65(3) 745-759 (Mar 1996), 9A1203
Hall effect on thermosolutal instability in a Maxwellian viscoelastic fluid in porous medium, Arch Mech 48(1) 199-209 (1996), 9A1204
Numerical solutions of 1D MHD equations by a fluctuation approach, Int J Numer Methods Fluids 22(7) 569-580 (Apr 1996), 9A1205
Computational analysis of electrohydrodynamics of a leaky dielectric drop in an electric field, J Fluid Mech 311 289-326 (Mar 1996), 9A1207
Magnetic Fluids and Applications Handbook and Database (Begell House, New York, 1996) 10N28
Electrohydrodynamic stability of a highly-viscous jet, J Fluid Mech 312 311-326 (Apr 1996), 10A1184
Experiments on ion-acoustic waves in dusty plasmas, Planet Space Sci 44(3) 239-242 (Mar 1996), 10A1185
Flow transitions in a rotating magnetic field, Exp Fluids 20(6) 454-459 (Apr 1996), 10A1186
Hyperbolicity analysis of multimoment plasma models: Application to auroral plasma outflows along magnetic field lines, Planet Space Sci 44(3) 225-238 (Mar 1996), 10A1187
Numerical modeling of the solar wind interaction with Venus, Planet Space Sci 44(3) 243-252 (Mar 1996), 10A1188
Numerical simulations of MHD wave excitation in bounded plasma slabs, Planet Space Sci 44(3) 253-265 (Mar 1996), 10A1189
Stability of the modified plane Poiseuille flow in the presence of a transverse magnetic field, Fluid Dyn Res 17(6) 293-310 (May 1996), 10A1190
Similarity solutions to rotating Couette flow of non-Newtonian fluids in the presence of a magnetic field, Quart Appl Math 54(2) 345-358 (Jun 1996), 11A900
Compressible boundary layer flow over a moving surface with a magnetic field, Mec Appl 40(1) 25-32 (Feb 1995), 11A1006
Energetics of magnetic instabilities, Geophys Astrophys Fluid Dyn 81(3-4) 211-213 (Dec 1995), 11T1007
Hall effects on hydromagnetic flow past an eccentrically rotating porous disk in a rotating fluid, Mec Appl 39(6) 619-626 (Dec 1994), 11A1008
Shock-capturing approach and nonevolutionary solutions in magnetohydrodynamics, J Comput Phys 126(1) 77-90 (Jun 1996), 11A1009
Unsteady hydromagnetic flow of two immiscible visco-elastic (Walter liquid B') conducting liquids between two inclined parallel plates, Mec Appl 39(6) 635-639 (Dec 1994), 11A1010
Structural modeling of the wall effects of Lorentz force, J Fluids Eng 118(2) 412-414 (Jun 1996), 12T1159
Unsteady MHD boundary layer on a porous surface, Facta Univ Mech Auto Control Robotic 1(5) 631-643 (1995), 12A1160

374E. Flow in electric fields

Ion-acoustic multisoliton in plasma with ion beams, Physica D 85(3) 445-453 (Aug 1995), 1A227
Drift wave instability and anomalous particle transport in collisional plasmas with high-Z dust impurities, J Phys Soc Japan 64(9) 3145-3148 (Sep 1995), 2A997
Magnetic damping of jets and vortices, J Fluid Mech 299 153-186 (Sep 1995), 2A999
Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, Int J Numer Methods Fluids 21(5) 433-442 (Sep 1995), 2A1002
Surface oscillations of electromagnetically levitated viscous metal droplets, J Fluid Mech 298 341-359 (Sep 1995), 2A1003
Stability of parametric resonances of nonlinear surface waves propagating between two superposed electrified fluids, IMA J Appl Math 55(2) 97-116 (1995), 3A203

Modification and damping of Alfven waves in a magnetized dusty plasma, J Phys Soc Japan 64(10) 3758-3766 (Oct 1995), 3A980
Surface stability of liquid conductors in electromagnetic shaping, J Fluid Mech 302 1-28 (Nov 1995), 4A1070
Role of Ekman pumping in confined, electromagnetically-driven flows, Eur J Mech B 14(6) 795-821 (1995), 4A1097
Stability criterion for Kelvin-Helmholtz mode in a cylindrical plasma, J Phys Soc Japan 64(11) 4073-4076 (Nov 1995), 4A1099
Numerical modeling of DC electromagnetic pump and brake flow, Appl Math Model 19(12) 713-723 (Dec 1995), 4A1103
Application of the BEM to the magneto-hydrodynamic duct flow, Z Angew Math Phys 46(6) 971-981 (Nov 1995), 5A56
Effect of pressure gradient on MHD boundary layer over a flat plate, Acta Mech 113(1-4) 1-7 (1995), 5A978
Effects of Hall currents and Coriolis force on Hartmann flow under general wall conditions, Acta Mech 113(1-4) 77-91 (1995), 5A979
Exact solution of the Navier-Stokes equations for magnetohydrodynamic flow, Acta Mech 113(1-4) 241-244 (1995), 5A980
Magnetohydrodynamic braking, J Trib 117(4) 724-728 (Oct 1995), 5A981
Oscillatory electrohydrodynamic gas flows, J Fluids Eng 117(3) 491-497 (Sep 1995), 5A983
Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, J Phys Soc Japan 64(12) 4693-4707 (Dec 1995), 6A1006
Static properties and motion of vortices in charged fluids, Physica D 89(1-2) 136-150 (Dec 1995), 6A1007
Droplet motion in an electrohydrodynamic fine spray, Exp Fluids 20(3) 153-164 (Jan 1996), 7A1139
Linear magnetoconvection in a rotating spherical shell, incorporating a finitely conducting inner core, Geophys Astrophys Fluid Dyn 80(3-4) 205-227 (Nov 1995), 7T1140
Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, JSME Int J Ser B 39(1) 134-140 (Feb 1996), 7T1143
Three-dimensional kinematic dynamos dominated by strong differential rotation, J Fluid Mech 306 223-265 (Jan 1996), 7A1144
Dynamics of large-scale spatial structures in current-carrying fluids and the electric explosion conductors, Physica D 91(1-2) 182-204 (Mar 1996), 8A997
Operator approach to three problems of fluid mechanics, Arch Mech 47(6) 1043-1056 (1995), 9A1060
Circulating power of steady state tokamaks, J Phys Soc Japan 65(3) 760-764 (Mar 1996), 9A1202
Equations of motion of vortex-current filaments, J Phys Soc Japan 65(3) 745-759 (Mar 1996), 9A1203
Limiting trajectories of dust particles approaching a charged spherical collector, Prace Inst Maszyn Przeplywowych 0(99) 113-123 (1995), 9A1206
Computational analysis of electrohydrodynamics of a leaky dielectric drop in an electric field, J Fluid Mech 311 289-326 (Mar 1996), 9A1207
Effects of electrode morphology on the slit flow of an electrorheological fluid, J Non-Newtonian Fluid Mech 63(1) 45-61 (Mar 1996), 10A1051
Electrohydrodynamic stability of a highly-viscous jet, J Fluid Mech 312 311-326 (Apr 1996), 10A1184
Temperature measurements in non-equilibrium "ferroelectric" plasma, Acta Phys Polonica A 89(4) 503-507 (Apr 1996), 10A1191
ER shear characteristics: Volume fraction, shear rate, time response, J Dyn Syst Meas Control 118(2) 221-225 (Jun 1996), 12A431
Structural modeling of the wall effects of Lorentz force, J Fluids Eng 118(2) 412-414 (Jun 1996), 12T1159

374H. Heat transfer aspects

Nonlinear compressible magnetoconvection - Part 3: Traveling waves in a horizontal field, J Fluid Mech 300 287-309 (Oct 1995), 4A1094
Ohmic scaling based on current diffusive ballooning mode, J Phys Soc Japan 65(1) 11-13 (Jan 1996), 7A1146
Analytical approach of the solutions of nonadiabatic motion in radiative magnetogasdynamics, Acta Mech 114(1-4) 71-81 (1996), 8A992
Entropy production and inward heat pinch of plasma, J Phys Soc Japan 65(2) 468-471 (Feb 1996), 8A998
Numerical modeling of materials processing in microwave furnaces, Int J Heat Mass Transfer 39(8) 1665-1675 (May 1996), 8A999

374M. Energy conversion, propulsion

Effects of plasma fluctuation in MHD generators: Studies with a numerical turbulence model, JSME Int J Ser B 38(3) 366-373 (Aug 1995), 1T1096
Present state of fusion research, J Tech Phys 36(2) 115-129 (1995), 3A983
Prototypic magnetohydrodynamic anode designs and test results, J Propulsion Power 11(6) 1330-1337 (Dec 1995), 4A1100
Studies of helical magnetohydrodynamic seawater flow in fields up to twelve teslas, J Propulsion Power 11(6) 1349-1355 (Dec 1995), 4A1101
Wall surface leakage effects on magnetohydrodynamic power generator performance, J Propulsion Power 12(1) 70-77 (Feb 1995), 6A1008
Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, JSME Int J Ser B 39(1) 134-140 (Feb 1996), 7T1143
Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, JSME Int J Ser B 39(1) 72-79 (Feb 1996), 7A1147
Magnetohydrodynamic generator design for a combined-cycle demonstration powerplant, J Propulsion Power 12(2) 390-397 (Apr 1996), 8A1000

374Y. Computational techniques

Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, Int J Numer Methods Fluids 21(5) 433-442 (Sep 1995), 2A1002
Two-dimensional numerical implementation of magnetohydrodynamics in divergence form, SIAM J Numer Anal 32(5) 1504-1518 (Oct 1995), 2A1004
Dimerized island chains in tokamaks, Chaos Solitons Fractals 5(1) 15-23 (Jan 1995), 3A984
Influence of an oscillatory rotation on the stability of miscible cylindrical magnetic fluids, Int J Eng Sci 33(14) 2055-2065 (Nov 1995), 4A1102
Numerical modeling of DC electromagnetic pump and brake flow, Appl Math Model 19(12) 713-723 (Dec 1995), 4A1103
Application of the BEM to the magneto-hydrodynamic duct flow, Z Angew Math Phys 46(6) 971-981 (Nov 1995), 5A56
Oscillatory electrohydrodynamic gas flows, J Fluids Eng 117(3) 491-497 (Sep 1995), 5A983
Variational methods for stationary MHD flow under natural interface conditions, Nonlinear Anal 26(4) 659-689 (Feb 1996), 5T984
Numerical analysis of random particle methods applied to Vlasov-Poisson-Fokker-Planck kinetic equations, SIAM J Numer Anal 33(1) 291-317 (Feb 1996), 7A1148
Analytical approach of the solutions of nonadiabatic motion in radiative magnetogasdynamics, Acta Mech 114(1-4) 71-81 (1996), 8A992
Numerical modeling of materials processing in microwave furnaces, Int J Heat Mass Transfer 39(8) 1665-1675 (May 1996), 8A999
Application of a finite difference-finite volume algorithm to solve Maxwell's equations in the time domain, Int J Comput Fluid Dyn 5(1-2) 81-98 (1995), 9T87
Numerical solutions of 1D MHD equations by a fluctuation approach, Int J Numer Methods Fluids 22(7) 569-580 (Apr 1996), 9A1205
Computational analysis of electrohydrodynamics of a leaky dielectric drop in an electric field, J Fluid Mech 311 289-326 (Mar 1996), 9A1207
Explicit formulae for heteroclinic solutions to scalar second-order ordinary differential equations, Arch Mech 48(1) 211-215 (1996), 9A1208
Three-dimensional plasma-neutral gas-fluid code, J Comput Phys 125(2) 513-525 (May 1996), 11A929
Shock-capturing approach and nonevolutionary solutions in magnetohydrodynamics, J Comput Phys 126(1) 77-90 (Jun 1996), 11A1009
Investigations of plasma jet oscillations using FFT and resulting phase angle relations, Acta Tech CSAV 41(1) 15-32 (1996), 11A1011
Numerical method for solving a kind of system of nonlinear equations in two-stream instability of plasma (Chinese), J Dalian Univ Tech 36(3) 270-273 (May 1996), 11A1012
Superposition technique for potential flow around an aerofoil and control of the circulation, Int J Numer Methods Fluids 22(10) 1013-1022 (May 1996), 11A1013
Long-term dissipativity of time-stepping algorithms for an abstract evolution equation with applications to the incompressible MHD and Navier-Stokes equations, Comput Methods Appl Mech Eng 131(1-2) 41-90 (Apr 1996), 12A1161
Stability criterion for an infinitely long Hall-Heroult cell, J Comput Appl Math 71(1) 47-65 (Jul 1996), 12A1162

374Z. Experimental techniques

Stability of plasma induced during CW CO_2 laser welding, J Tech Phys 36(2) 131-148 (1995), 3A643
Dynamics of electrodiffusion probes in developing annular flows, Exp Fluids 20(2) 131-134 (Dec 1995), 6T1004
Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, Combust Sci Tech 109(1-6) 1-22 (Nov 1995), 7A1149
Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, J Phys Soc Japan 65(1) 133-138 (Jan 1996), 7A1150
Apparatus for measuring the energy of pulse radiation of a laser, J Tech Phys 36(4) 421-428 (1995), 9A860
Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, Acta Phys Polonica A 89(1) 47-59 (Jan 1996), 9A1209
Temperature measurements in non-equilibrium "ferroelectric" plasma, Acta Phys Polonica A 89(4) 503-507 (Apr 1996), 10A1191

376. NAVAL HYDROMECHANICS

Hydrodynamics of Ship Propellers - Cambridge Ocean Technology Series 3 (Cambridge UP, New York, 1994) 3R26

376C. Ship motions, resistance, performance

Ship motion in non-homogeneous media, Ship Tech Res 42(3) 140-156 (Jul 1995), 1A1097
High speed hull form optimization for seakeeping, Adv Eng Software 22(3) 179-189 (1995), 2A1005
Effect of riblets on sails, Exp Fluids 19(6) 397-404 (Oct 1995), 4A1105
Numerical simulation of scale effect on ship stern flow and hydrodynamic performance, J Hydrodyn 7(3) 56-64 (1995), 4A1106
Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, Thermophys and Aeromech 2(2) 89-94 (1995), 5A985
Response statistics of moored offshore structures, J Offshore Mech Arctic Eng 117(3) 159-165 (Aug 1995), 5A986
Ship hydrodynamics basic research in the US, J Hydrodyn 7(4) 22-34 (1995), 6A1009
Advances in Marine Hydrodynamics - Advances in Fluid Mechanics Series (Comput Mech, Billerica MA, 1996) 8N27
Parameter identification of nonlinear ocean mooring systems using the Hilbert transform, J Offshore Mech Arctic Eng 118(1) 29-36 (Feb 1996), 8A149
Oscillating flow about 2D and 3D bilge keels, J Offshore Mech Arctic Eng 118(1) 1-6 (Feb 1996), 8A216
Corrected Prohaska method for determining hull form factor (Chinese), J Dalian Univ Tech 35(1) 84-87 (Feb 1995), 8A1001
Effect of mooring line arrangement on the dynamics of spread mooring systems, J Offshore Mech Arctic Eng 118(1) 7-20 (Feb 1996), 8A1002
Motion simulation of a cylinder at the surface of a viscous fluid, Ship Tech Res 43(1) 3-18 (Feb 1996), 8A1003
Calculation of ship flow in viscous fluid with free-surface effect (Chinese), J Dalian Univ Tech 35(5) 685-689 (Oct 1995), 8A1004
Ship hull geometric modeling design and software system (Chinese), J Dalian Univ Tech 36(2) 212-215 (Mar 1996), 9A1014
Unigraphics software and ship CAD-CAM platform (Chinese), J Dalian Univ Tech 36(2) 216-218 (Mar 1996), 9A1015
Hydrodynamic damping contributions for an advanced floating production system design, Marine Struct 9(7) 649-670 (Aug 1996), 9A1210
Prediction of propulsive power for ships with homogeneous hull and high speed (Chinese), J Dalian Univ Tech 36(3) 324-328 (May 1996), 11A1014
Influence of a bottom mud layer on the resistance of marine vehicles, Ship Tech Res 43(2) 51-61 (May 1996), 12A1163

376G. Ship stability and control

Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, Nonlinear Dyn 9(4) 349-368 (Apr 1996), 9A1211
Special issue on Ship Control, Model Ident Control 17(2) 75-165 (Apr 1996), 9T1212

376I. Ship propulsion

Integrated method for computing the internal and external viscous flow field around the ducted propulsor behind an axisymmetric body, J Hydrodyn 7(3) 72-83 (1995), 4T1104
Cupped propeller test and analysis, Ship Tech Res 42(4) 186-192 (Oct 1995), 5A987
Hydroelasticity of rotating bodies: Theory and application, Marine Struct 9(6) 631-646 (1996), 7A1151
Predictions of ice contact forces on a marine screw propeller during the propeller-ice cutting process, Acta Polytech Scand Mech Eng 0(118) 2-140 (1995), 7A1152

376N. Fluid dynamics effects

Fourier-Kochin formulation of wave diffraction-radiation by ships or offshore structures, Ship Tech Res 42(3) 115-139 (Jul 1995), 1A1098
Analytical solutions for the actuator disk with variable radial distribution of load, J Fluid Mech 297 327-355 (Aug 1995), 2A1006
Effect of riblets on sails, Exp Fluids 19(6) 397-404 (Oct 1995), 4A1105
Numerical simulation of scale effect on ship stern flow and hydrodynamic performance, J Hydrodyn 7(3) 56-64 (1995), 4A1106
Decomposition of free-surface effects into wave and near-field components, Ship Tech Res 42(4) 167-185 (Oct 1995), 5A200
Influence of water depth on ship stern flows, Ship Tech Res 42(4) 193-197 (Oct 1995), 5A988
Hydrodynamic design of moored floating platforms, Marine Struct 9(5) 545-575 (1996), 6A1010
Unsteady propeller surface pressure prediction with a potential based panel method, J Hydrodyn 7(4) 35-41 (1995), 6T1011
Active cancellation of ship waves, Exp Fluids 20(3) 225-226 (Jan 1996), 7T266
Analysis of forces due to irregular waves exerted on a ship near a harbor entrance, Marine Struct 9(6) 609-629 (1996), 7A1047
High order panel method based on source distribution and Gaussian quadrature, Ship Tech Res 43(1) 38-47 (Feb 1996), 8A897
Calculation of ship flow in viscous fluid with free-surface effect (Chinese), J Dalian Univ Tech 35(5) 685-689 (Oct 1995), 8A1004
Fourier representation of near-field free-surface flows, Ship Tech Res 43(1) 19-37 (Feb 1996), 8A1005
Vertical wave excitation for bodies in revolution, Ship Tech Res 43(2) 70-77 (May 1996), 12A1022
Lift and drag distributions of yacht sails using wake surveys, J Fluids Eng 118(2) 346-351 (Jun 1996), 12A1164
Problems of hydrofoil design for a given range of angles of attack, Z Angew Math Mech 76(6) 337-340 (1996), 12A1165

376Y. Computational techniques

Integrated method for computing the internal and external viscous flow field around the ducted propulsor behind an axisymmetric body, J Hydrodyn 7(3) 72-83 (1995), 4T1104
Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, Thermophys and Aeromech 2(2) 89-94 (1995), 5A985
Nonlinear method for the propeller-rudder interaction with the slipstream deformation taken into account, Comput Methods Appl Mech Eng 130(1-2) 115-132 (Mar 1996), 12A1166

376Z. Experimental techniques

Development of a wind tunnel test facility for yacht aerodynamic studies, J Wind Eng Indust Aerodyn 58(3) 231-258 (Dec 1995), 5A989
Method of ship vibration forecasting by databases (Chinese), J Dalian Univ Tech 35(5) 690-693 (Oct 1995), 8A148

378. AERODYNAMICS

378B. Wings and airfoils

Canard tip vortex splitting in a canard-wing configuration: Experimental observations, J Aircraft 32(4) 875-877 (Aug 1995), 1T1099
Computational study of a conical unit aspect ratio wing at supersonic speeds, J Aircraft 32(4) 877-880 (Aug 1995), 1T1100

Delta wing vortex control via recessed angled spanwise blowing, J Aircraft 32(4) 804-810 (Aug 1995), 1A1101
Flow developments above 50-deg sweep delta wings with different leading-edge profiles, J Aircraft 32(4) 787-794 (Aug 1995), 1A1102
Natural-laminar-flow airfoil for general-aviation applications, J Aircraft 32(4) 710-715 (Aug 1995), 1A1103
Numerical analysis of the vortical flow around a delta wing-canard configuration, J Aircraft 32(4) 716-725 (Aug 1995), 1A1104
Subsonic wing planform design using multidisciplinary optimization, J Aircraft 32(4) 746-753 (Aug 1995), 1A1105
Vortex breakdown control by delta wing geometry, J Aircraft 32(4) 832-838 (Aug 1995), 1A1106
Vortex breakdown over a pitching delta wing, J Fluids Struct 9(5) 571-583 (Jul 1995), 1A1107
All-moving active aerodynamic surface research, Smart Mat Struct 4(2) 65-74 (Jun 1995), 1A1118
Computational Aeroacoustics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N35
Momentum, pressure, and energy in the Trefftz-plane, J Aircraft 32(5) 943-954 (Oct 1995), 2A907
Active control of vortex breakdown over a delta wing, AIAA J 33(9) 1743-1745 (Sep 1995), 2T1007
Analysis of rolled delta wing flows using effective sweep and attack angles, J Aircraft 32(5) 978-984 (Oct 1995), 2A1008
Analytic sensitivity and approximation of skin buckling constraints in wing-shape synthesis, J Aircraft 32(5) 1102-1113 (Oct 1995), 2A1009
Calculated effect of freestream turbulence on aerodynamic characteristics of a delta wing, AIAA J 33(9) 1734-1736 (Sep 1995), 2T1010
Compressibility effects on vortex breakdown onset above a 75-degree sweep delta wing, J Aircraft 32(5) 936-942 (Oct 1995), 2A1011
Effect of canard oscillations on an X-31A: Like model in pitching maneuver, J Aircraft 32(5) 1157-1160 (Oct 1995), 2T1012
Effects of delta planform tip sail incidence and arrangement on wing performance, J Aircraft 32(5) 1160-1162 (Oct 1995), 2T1013
Experimental and analytical investigation of transonic limit-cycle oscillations of a flaperon, J Aircraft 32(5) 905-910 (Oct 1995), 2A1014
Experimental study of lift-enhancing tabs on a two-element airfoil, J Aircraft 32(5) 1072-1078 (Oct 1995), 2A1015
Inverse methods for airfoil design, J Aircraft 32(5) 1001-1011 (Oct 1995), 2A1016
New computation technique of Glauert's integrals, Appl Math letters 8(5) 7-9 (Sep 1995), 2A1017
Numerical and experimental study of a wingtip vortex in the near field, AIAA J 33(9) 1561-1568 (Sep 1995), 2A1018
Numerical study of hypersonic leeward flow over a blunt nosed delta wing, AIAA J 33(9) 1626-1633 (Sep 1995), 2A1019
Panel method formulation for oscillating airfoils in supersonic flow, AIAA J 33(9) 1659-1666 (Sep 1995), 2A1020
Pitch rate and pitch-axis location effects on vortex breakdown onset, J Aircraft 32(5) 929-935 (Oct 1995), 2A1021
Structural modeling for optimization of low aspect ratio composite wings, J Aircraft 32(5) 1114-1123 (Oct 1995), 2A1022
Vortex asymmetry and induced side forces on elliptic cones at high incidence, J Aircraft 32(5) 1018-1025 (Oct 1995), 2A1023
Vortex-in-cell analysis of wing wake roll-up, J Aircraft 32(5) 962-969 (Oct 1995), 2A1024
Wake integration to predict wing span loading from a numerical simulation, J Aircraft 32(5) 1165-1167 (Oct 1995), 2T1025
Wing performance in moderate rain, J Aircraft 32(5) 1034-1039 (Oct 1995), 2A1026
High angle-of-attack aerodynamics, Annu Rev Fluid Mech 27 45-88 (1995), 2A1027
Decomposition-based optimization procedure for high-speed prop-rotors using composite tailoring, J Aircraft 32(5) 1026-1033 (Oct 1995), 2A1047
13th AIAA Applied Aerodynamics Conference Proceedings, June 19-22, 1995, San Diego CA (AIAA, MD, 1995) 3N28
Computational aspects of wing vortex wake roll-up, J Brazilian Soc Mech Sci 16(4) 359-366 (1994), 3A985
Computational model of flexible membrane wings in steady laminar flow, AIAA J 33(10) 1769-1777 (Oct 1995), 3A986
Measurements of supersonic wing tip vortices, AIAA J 33(10) 1761-1768 (Oct 1995), 3A987
Nonequilibrium-dissociated stagnation boundary-layer flow on an arbitrarily catalytic swept wing, AIAA J 33(10) 1836-1841 (Oct 1995), 3A988
Surface pressure measurements on a pitching swept wing in a water channel, AIAA J 33(10) 1871-1879 (Oct 1995), 3A989
Estimates for critical Mach number under isoperimetric constraints, European J Appl Math 6(5) 385-398 (Oct 1995), 4A986
Computed effects of heat transfer on the transonic flow over an aerofoil, AIAA J 33(11) 2120-2127 (Nov 1995), 4A988
Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, AIAA J 33(11) 2032-2037 (Nov 1995), 4A1025
Alternative solution of the kernel function in subsonic unsteady lifting surface theory, AIAA J 33(11) 2228-2230 (Nov 1995), 4T1107
Experimental research on blunt trailing-edge airfoil sections at low Reynolds numbers, AIAA J 33(11) 2001-2005 (Nov 1995), 4A1108
Vortex characteristics over delta wing subject to transient along-core blowing, AIAA J 33(12) 2418-2420 (Dec 1995), 4T1109
Computation of compressible, laminar boundary layers on swept, tapered wings, J Aircraft 32(6) 1402-1405 (Dec 1995), 5T990
Double-delta-wing aerodynamics for pitching motions with and without sideslip, J Aircraft 32(6) 1303-1311 (Dec 1995), 5A991
Dynamic airfoil flow separation and reattachment, J Aircraft 32(6) 1191-1197 (Dec 1995), 5A992
Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, J Aircraft 32(6) 1246-1253 (Dec 1995), 5A993
Nonlinear analysis of graphite-epoxy wing boxes under pure bending including lateral pressure, J Aircraft 32(6) 1375-1381 (Dec 1995), 5A994
Surface reflective visualization system study to vortical flow over delta wings, J Aircraft 32(6) 1359-1366 (Dec 1995), 5A995
Grid sensitivity and aerodynamic optimization of generic airfoils, J Aircraft 32(6) 1234-1239 (Dec 1995), 5A1018
Flap-lag-torsion stability in hover and forward flight with 3D wake, AIAA J 34(1) 18-28 (Jan 1996), 6A222
Certification of the composite outer wing of the ATR72, Proc Inst Mech Eng J Aerospace Eng 209(G4) 327-339 (1995), 6A1012
Flow oscillation over an airfoil near stall, AIAA J 34(1) 199-201 (Jan 1996), 6T1013
Inviscid separated flow over a non-slender delta wing, J Fluid Mech 305 307-345 (Dec 1995), 6A1014
Prediction of aerofoil wake subjected to the effects of curvature and pressure gradient, Int J Numer Methods Fluids 22(1) 29-41 (Jan 1996), 6A1024
Superposition technique for 2D potential flow around multi-element aerofoils, Mech Res Commun 23(1) 103-110 (Feb 1996), 7T1056
Shock boundary-layer interaction on transonic airfoils for laminar and turbulent flow, J Aircraft 33(1) 100-108 (Feb 1996), 7A1097
Bluff body wakes with free, fixed, and discontinuous separation at low Reynolds numbers and low aspect ratio, Exp Fluids 20(3) 189-198 (Jan 1996), 7A1105
Buffeting of a fin: Streamwise evolution of flow structure, J Aircraft 33(1) 185-190 (Feb 1996), 7A1153
Impulsive start of a symmetric airfoil at high angle of attack, AIAA J 34(2) 225-230 (Feb 1996), 7A1154
Integrated determination of sensitivity derivatives for an aeroelastic transonic wing, J Aircraft 33(1) 224-231 (Feb 1996), 7A1155
Modified, discrete-vortex method for studying wing-loading effects on wake dynamics, J Aircraft 33(1) 155-162 (Feb 1996), 7A1156
Numerical simulation of forced and free-to-roll delta-wing motions, J Aircraft 33(1) 93-99 (Feb 1996), 7A1157
Separated flow mechanisms in F-18 wing rock, J Aircraft 33(1) 81-86 (Feb 1996), 7A1158
Skin-friction measurements and calculations on a lifting airfoil, AIAA J 34(2) 231-236 (Feb 1996), 7A1159
Structural optimization for joined-wing synthesis, J Aircraft 33(1) 214-223 (Feb 1996), 7A1160
Topology optimization of transport wing internal structure, J Aircraft 33(1) 232-233 (Feb 1996), 7T1161
Aerodynamic interaction study of the propeller-wing under different flow configurations, J Aircraft 33(1) 46-53 (Feb 1996), 7A1178
Development of plate analogy for calculating strength of airfoils of surface effect vehicles, Russian Aeronaut 38(2) 11-15 (1995), 8A778
Active cooling of a hypersonic plane using hydrogen, methane, oxygen and fluorine, Proc Inst Mech Eng J Aerospace Eng 210(G1) 9-17 (1996), 8A1006
Conception and choice of project parameters of transport wing-in-ground effect craft, Russian Aeronaut 38(2) 4-5 (1995), 8A1007
Effects of compressibility, pitch rate, and Reynolds number on unsteady incipient leading-edge boundary layer separation over a pitching airfoil, J Fluid Mech 308 195-217 (Feb 1996), 8A1008
Improvement of operational performance of the canard surface effect vehicles, Russian Aeronaut 38(2) 6-10 (1995), 8A1009
Influence of surface flow on aerodynamic loads of a cantilever wing, AIAA J 34(3) 527-532 (Mar 1996), 8A1010
Formation and internal structure of coherent vortices in the wake of a pitching airfoil, J Fluids Struct 10(1) 3-20 (Jan 1996), 8A1020
Nonclassical effects on divergence and flutter of anisotropic swept aircraft wings, AIAA J 34(4) 786-794 (Apr 1996), 9A322
Aerodynamic characteristics of a 2D airfoil with ground effect, J Aircraft 33(2) 386-392 (Apr 1996), 9A1213
Body-axis rolling motion critical states of a 65-degree delta wing, J Aircraft 33(2) 268-278 (Apr 1996), 9A1214
Boundary element approach to the 2D potential flow problem around airfoils with cusped trailing edge, Comput Methods Appl Mech Eng 129(3) 213-219 (Jan 1996), 9A1215
Critical states and flow structure on a 65-deg delta wing, J Aircraft 33(2) 347-352 (Apr 1996), 9A1216
Delta wing vortex manipulation using pulsed and steady blowing during ramp-pitching, J Aircraft 33(2) 304-310 (Apr 1996), 9A1217
Dynamic reattachment on a downward pitching finite wing, J Aircraft 33(2) 279-285 (Apr 1996), 9A1218
Simple prediction method for location of vortex breakdown on delta wings, J Aircraft 33(2) 452-454 (Apr 1996), 9T1219
Simulation and analysis of V-22 tiltrotor aircraft forward-flight flowfield, J Aircraft 33(2) 369-376 (Apr 1996), 9A1220
Vortex lattice method for high-speed planing, Int J Numer Methods Fluids 22(6) 495-513 (Mar 1996), 9A1221
Flow control over a maneuvering delta wing at high angles of attack, AIAA J 34(4) 662-668 (Apr 1996), 9A1226
Analysis of the transonic flow past an airfoil in the perforated wall wind tunnel, TsAGI 1(1) 55-62 (1994), 10T1086
Computation of compressible flow past slender wing-body using full-potential equation, Chinese J Aeronaut 9(1) 1-5 (Feb 1996), 10T1105
Disturbance growth control in a boundary layer, TsAGI 1(2) 23-33 (1994), 10A1134
High-camber wing flow with tangential jet blowing, TsAGI 1(2) 34-45 (1994), 10T1142
Development of a nonstationary separation and coherent structures in a 2D viscous incompressible flow around a body, Arch Mech 48(2) 395-410 (1996), 10A1192
Parametric effects on lift force of an airfoil in unsteady freestream, AIAA J 34(5) 1085-1087 (May 1996), 10T1193
Planar cross-section law in supersonic aerodynamics and the panel flutter problem, Mech Solids 30(6) 126-130 (1995), 10T1194
Experimental and numerical investigations of dynamic stall on a pitching airfoil, AIAA J 34(5) 982-989 (May 1996), 10A1200
Mathematical modeling of unsteady viscous flow over a 3D finite span wing, TsAGI 1(3) 73-83 (1994), 10T1206
Structure and development of a wing-tip vortex, J Fluid Mech 312 67-106 (Apr 1996), 10A1207
Airfoil design utilizing parallel processors, J Aircraft 33(3) 630-632 (Jun 1996), 11T1015
Analytical expression of induced drag for a finite elliptic wing, J Aircraft 33(3) 632-634 (Jun 1996), 11T1016
Navier-Stokes computations on flexible advanced transport wings in transonic regime, J Aircraft 33(3) 576-581 (Jun 1996), 11A1017
Optimal rectangular end plates, J Aircraft 33(3) 623-625 (Jun 1996), 11T1018
Pitch rate effects on delta wing vortex breakdown, J Aircraft 33(3) 639-642 (Jun 1996), 11T1019
Aeroelastic analysis of a flexible airfoil with freeplay nonlinearity, J Sound Vib 193(4) 823-846 (Jun 1996), 12A267
Unsteady aerodynamic model of flapping wings, AIAA J 34(7) 1435-1440 (Jul 1996), 12A1167
Computation of supersonic flow over spatial configurations with sharp leading edges, Thermophys and Aeromech 2(3) 227-234 (1995), 12T1175
Simulating moth wing aerodynamics: Towards the development of flapping-wing technology, AIAA J 34(7) 1348-1355 (Jul 1996), 12A1477

378C. Lifting bodies

High angle-of-attack aerodynamics, Annu Rev Fluid Mech 27 45-88 (1995), 2A1027
Rotor aerodynamic loads computation using a constant vorticity contour free wake model, J Aircraft 32(5) 911-920 (Oct 1995), 2A1028
Optimal design of composite lifting surface for flutter suppression with piezoelectric actuators, AIAA J 33(10) 1897-1904 (Oct 1995), 3A224
Maximum drag of a curved plate in flow with a wake, European J Appl Math 6(5) 517-527 (Oct 1995), 4A930
Pressure correlations on a rough cone in turbulent shear flow, J Wind Eng Indust Aerodyn 58(1-2) 1-18 (Oct 1995), 4A1077
Asymptotic theory of high-aspect-ratio arched wings in steady incompressible flow, J Fluid Mech 303 367-377 (Nov 1995), 4A1110
Phenomenon of disastrous change of flying vehicle lifting surface shape, Russian Aeronaut 38(1) 12-16 (1995), 6A1015
Recalling the Vth Volta Congress: High speeds in aviation, Annu Rev Fluid Mech 28 1-9 (1996), 6T1016
Application of photogrammetry in the study of the effects of sailboard fin flexibility, Proc Inst Mech Eng C 209(C6) 373-381 (1995), 7A580
Comparison of two methods for direct measurement of sectional fluctuating lift on a circular cylinder, Exp Fluids 20(3) 232-233 (Jan 1996), 7A1162
Effect of free-stream turbulence on sectional lift forces on a circular cylinder, J Fluid Mech 306 267-292 (Jan 1996), 7A1163
Qualitative features of high lift hovering dynamics and inertial manifolds, Theor Comput Fluid Dyn 8(2) 89-104 (1996), 8A1026
Systematic study of the correlation between geometrical disturbances and flow asymmetries, AIAA J 34(4) 772-777 (Apr 1996), 9A1105
Measurements and visualization in the flowfield behind a model propeller, J Aircraft 33(2) 407-413 (Apr 1996), 9A1244
Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, TsAGI 1(2) 144-149 (1994), 10T1195
Experimental investigation of the features of the boundary layer development on an airfoil, TsAGI 1(4) 30-40 (1994), 10A1196
TsAGI: Historical milestones and present state, TsAGI 1(1) 3-9 (1994), 10A1197
Analysis of aerodynamic forces on a delta wing, J Fluid Mech 316 173-196 (Jun 1996), 12A1168

378D. Wing body combinations

High-angle-of-attack wind-tunnel investigation of a multimission vehicle, J Spacecraft Rockets 32(4) 734-736 (Aug 1995), 1T1108
Analysis of tangential slot blowing on F/A-18 isolated forebody, J Aircraft 32(5) 1040-1046 (Oct 1995), 2A1029
Optimization of tractor propeller-wing configurations, Proc Inst Mech Eng J Aerospace Eng 209(G3) 215-226 (1995), 2A1030
Wedge-cone waverider configuration for engine-airframe integration, J Aircraft 32(5) 1142-1144 (Oct 1995), 2T1031
Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, AIAA J 33(11) 2013-2019 (Nov 1995), 4A990
Navier-Stokes computations of full wing-body configuration with oscillating control surfaces, J Aircraft 32(6) 1227-1233 (Dec 1995), 5A996
Rear fuselage flow studies on a modern transonic tranport aircraft, J Aircraft 32(6) 1183-1190 (Dec 1995), 5A997
Two-dimensional vortex motion in the cross-flow of a wing-body configuration, J Fluid Mech 305 93-109 (Dec 1995), 6A898
Wing-body aeroelasticity on parallel computers, J Aircraft 33(2) 421-428 (Apr 1996), 9A326
Review of forebody-induced wing rock, J Aircraft 33(2) 253-259 (Apr 1996), 9A1222
Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, J Aircraft 33(2) 414-420 (Apr 1996), 9A1233
Asymptotic theory of 3D hypersonic flow past a wing, TsAGI 1(4) 3-29 (1994), 10A1092
Hypersonic air-breathing engine-airframe integration, TsAGI 1(4) 72-82 (1994), 10A1198
Method of deflecting an axisymmetric jet propagating on the upper wing surface with a flap, TsAGI 1(4) 103-114 (1994), 10T1199
Interaction of missile nose-tip vortices with a control surface, AIAA J 34(5) 999-1006 (May 1996), 10A1202
Simultaneous optimization of sailplane design and its flight trajectory, J Aircraft 33(3) 567-571 (Jun 1996), 11A796

378G. Lift, drag, stall

Experimental investigation of 3D dynamic stall model oscillating in pitch, J Aircraft 32(5) 1062-1071 (Oct 1995), 2A1032
Numerical investigation of dynamic stall of an oscillating wing, AIAA J 33(10) 1803-1808 (Oct 1995), 3A990
Experimental research on blunt trailing-edge airfoil sections at low Reynolds numbers, AIAA J 33(11) 2001-2005 (Nov 1995), 4A1108
Asymptotic theory of high-aspect-ratio arched wings in steady incompressible flow, J Fluid Mech 303 367-377 (Nov 1995), 4A1110
Numerical study of alternate forms of dynamic-stall-vortex suppression, J Aircraft 32(6) 1405-1407 (Dec 1995), 5T998
Fluid dynamics of parachute inflation, Annu Rev Fluid Mech 28 361-387 (1996), 6A205
Flow oscillation over an airfoil near stall, AIAA J 34(1) 199-201 (Jan 1996), 6T1013

Boundary-layer-tripping studies of compressible dynamic stall flow, AIAA J 34(1) 96-103 (Jan 1996), 6A1017
Use of a wake-integral method for computational drag, AIAA J 34(1) 188-190 (Jan 1996), 6T1018
Impulsive start of a symmetric airfoil at high angle of attack, AIAA J 34(2) 225-230 (Feb 1996), 7A1154
Skin-friction measurements and calculations on a lifting airfoil, AIAA J 34(2) 231-236 (Feb 1996), 7A1159
Methodology for modeling lift as a modulated procoss, J Offshore Mech Arctic Eng 118(1) 21-28 (Feb 1996), 8A215
Influence of surface flow on aerodynamic loads of a cantilever wing, AIAA J 34(3) 527-532 (Mar 1996), 8A1010
Nonlinear dynamics of test models in wind tunnels, Eur J Mech A 15(1) 91-136 (1996), 8A1056
Viscous drag reduction using riblets on NACA 0012 airfoil to moderate incidence, AIAA J 34(4) 676-682 (Apr 1996), 9A1140
Review of forebody-induced wing rock, J Aircraft 33(2) 253-259 (Apr 1996), 9A1222
Computational analysis of a wingtip-mounted pusher turboprop, J Aircraft 33(2) 441-444 (Apr 1996), 9T1223
Experimental and numerical investigations of dynamic stall on a pitching airfoil, AIAA J 34(5) 982-989 (May 1996), 10A1200
Transonic equivalence rule involving lift and shocks, AIAA J 34(5) 1080-1083 (May 1996), 10T1201
Calculation of 3D BE drag components using wind tunnel data, Boundary Elements Comm 7(1) 9-18 (1996), 11A51
Comparison of F/A-18A inlet flow analyses with flight data: Part 1, J Aircraft 33(3) 457-462 (Jun 1996), 11A966
Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, J Aircraft 33(3) 463-469 (Jun 1996), 11A967
Determination of aircraft stall margins during takeoff, J Aircraft 33(3) 634-637 (Jun 1996), 11T1020
High-lift design optimization using Navier-Stokes equations, J Aircraft 33(3) 499-504 (Jun 1996), 11A1021
Identification of lateral-directional behavior in stall from flight data, J Aircraft 33(3) 627-630 (Jun 1996), 11T1022
Water vapor transmission through hull material and buoyancy of aerostats, J Aircraft 33(3) 572-575 (Jun 1996), 11A1023
Investigations into Vehicle Aerodynamics (SAE, Warrendale PA, 1995) 12N41
Measurement of the lift force on a particle fixed to the wall in the viscous sublayer of a fully-developed turbulent boundary layer, J Fluid Mech 316 285-306 (Jun 1996), 12A1082
Lift and drag distributions of yacht sails using wake surveys, J Fluids Eng 118(2) 346-351 (Jun 1996), 12A1164
Analysis of aerodynamic forces on a delta wing, J Fluid Mech 316 173-196 (Jun 1996), 12A1168
Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, AIAA J 34(7) 1420-1427 (Jul 1996), 12A1169

378H. Interference

Aerodynamic interference of dissimilar aircraft flying in close proximity, J Aircraft 33(2) 440-441 (Apr 1996), 9T1224
Time-domain analysis of low-speed airfoil flutter, AIAA J 34(5) 1027-1033 (May 1996), 10A314
Interaction of missile nose-tip vortices with a control surface, AIAA J 34(5) 999-1006 (May 1996), 10A1202
Vortex model to define safe aircraft separation distances, J Aircraft 33(3) 547-553 (Jun 1996), 11A1024
Wake-vortex separation distances when flight-path corridors are constrained, J Aircraft 33(3) 539-546 (Jun 1996), 11A1025

378I. Performance

Aeroelastic analysis of a flexible control surface with structural nonlinearity, J Aircraft 32(4) 868-874 (Aug 1995), 1A1109
Aeroelastic effects on the B-2 maneuver response, J Aircraft 32(4) 862-867 (Aug 1995), 1A1110
Computation of a controlled store separation from a cavity, J Aircraft 32(4) 846-852 (Aug 1995), 1A1111
Computational investigation of tangential slot blowing on a generic chined forebody, J Aircraft 32(4) 811-817 (Aug 1995), 1A1112
Experimental investigation of tangential slot blowing on a generic chined forebody, J Aircraft 32(4) 818-824 (Aug 1995), 1A1113
Inertia-coupled coordinated roll maneuvers of airplanes, J Aircraft 32(4) 883-884 (Aug 1995), 1T1114
Monitoring airplane takeoff performance: Prototype instrument with learning capability, J Aircraft 32(4) 768-772 (Aug 1995), 1A1115
Development of transonic area-rule methodology, J Aircraft 32(5) 1056-1061 (Oct 1995), 2A1033
Batch simulation environment for integrated batch and piloted air combat analysis, J Aircraft 32(6) 1263-1268 (Dec 1995), 5A999
Nonlinear multidisciplinary design optimization using system identification and optimal control theory, Comput Methods Appl Mech Eng 128(3-4) 419-432 (Dec 1995), 5A1000
Aerodynamics of heat exchangers for high-altitude aircraft, J Aircraft 33(1) 176-184 (Feb 1996), 7A1164
Influence of detailed blade design on the aerodynamic performance of straight-bladed vertical axis wind turbines, Proc Inst Mech Eng A 210(A1) 65-74 (1996), 8A1011
Subsonic aerodynamics and performance of a smart vortex generator system, J Aircraft 33(2) 393-398 (Apr 1996), 9A1225
Full-scale wind-tunnel studies of F/A-18 tail buffet, J Aircraft 33(3) 589-595 (Jun 1996), 11A1026
Multiple design point optimization of high-speed proprotors, J Aircraft 33(3) 625-627 (Jun 1996), 11T1027
Reduction of vertical tail buffet response using active control, J Aircraft 33(3) 617-622 (Jun 1996), 11A1030

378J. Flight path and trajectories

Evaluation of several agility metrics for fighter aircraft using optimal trajectory analysis, J Aircraft 32(4) 732-738 (Aug 1995), 1A1116
Aircraft terrain following based on a nonlinear continuous predictive control approach, J Guidance Control Dyn 18(4) 817-823 (Aug 1995), 1A1117
Experimental satellite trajectory analysis using decision-based robust design, J Guidance Control Dyn 18(5) 1126-1132 (Oct 1995), 3A348
Effect of line Doppler shift on plume infrared signatures, J Thermophys Heat Transfer 9(4) 636-643 (Dec 1995), 3A1131
Control stick logic in high-angle-of-attack maneuvering, J Guidance Control Dyn 18(5) 1092-1097 (Oct 1995), 3T1417
Optimal planar interception with terminal constraints, J Guidance Control Dyn 18(6) 1273-1279 (Dec 1995), 4A367
Separation of aircraft motions, Mech Solids 30(2) 28-32 (1995), 5A1001
Four-dimensional guidance of atmospheric vehicles, J Guidance Control Dyn 19(1) 113-122 (Feb 1996), 6A309
Full envelope flight control system design using qualitative feedback theory, J Guidance Control Dyn 19(1) 23-29 (Feb 1996), 6A311
Analysis of an optimal flight path of subsonic transport aircraft for fuel saving, Int J Turbo Jet Engines 12(3) 189-199 (1995), 6A1019
Long flight-time range-optimal aircraft trajectories, J Guidance Control Dyn 19(1) 242-244 (Feb 1996), 6T1020
Optimal aircraft terrain-following flight with nonlinear engine dynamics, J Guidance Control Dyn 19(1) 240-242 (Feb 1996), 6T1021
Design and robustness analysis of gain-scheduled control system for parabolic flight, J Guidance Control Dyn 19(2) 430-437 (Apr 1996), 8A1012
Inverse and optimal control for precision aerobatic maneuvers, J Guidance Control Dyn 19(2) 483-488 (Apr 1996), 8A1013
Nonlinear inverse dynamics control of aircraft using spoilers, J Guidance Control Dyn 19(2) 475-482 (Apr 1996), 8A1017
Stability augmentation design of a large flexible transport using nonlinear parameter optimization, J Guidance Control Dyn 19(2) 469-474 (Apr 1996), 8A1018
Approximate probability estimation of aircraft large deviation trajectory parameters under random perturbation, TsAGI 1(2) 125-143 (1994), 10T1203
Second-order control optimization method for nonlinear dynamic systems and its application to optimal aircraft trajectory calculation, TsAGI 1(1) 84-94 (1994), 10A1204
Design of an autoland controller for an F-14 aircraft using H_∞ synthesis, J Guidance Control Dyn 19(3) 656-663 (Jun 1996), 11A323
Attitude control for low lift-drag re-entry vehicles, J Guidance Control Dyn 19(4) 816-822 (Aug 1996), 12T381
Flight envelopes for hypersonic aerorendezvous at constant altitude, J Guidance Control Dyn 19(4) 941-947 (Aug 1996), 12T385
Nonlinear autopilot design for bank-to-turn steering of a flight vehicle, J Guidance Control Dyn 19(4) 978-979 (Aug 1996), 12T408
Periodic optimal flight, J Guidance Control Dyn 19(4) 745-755 (Aug 1996), 12A1170

378K. Stability and control

Design and examination of H_∞ robust controller for ground effect problem, J Guidance Control Dyn 18(4) 740-747 (Aug 1995), 1A379
Evaluation of optimal-guidance algorithm for aeroassisted orbit transfer, J Guidance Control Dyn 18(4) 718-722 (Aug 1995), 1T392
Nonlinear decoupling control of aircraft motion, J Guidance Control Dyn 18(4) 812-816 (Aug 1995), 1A396
Optimal guidance of aeroassisted transfer vehicles based on matched expansions, J Guidance Control Dyn 18(4) 709-717 (Aug 1995), 1T399
U-parameter robust flight control design, J Guidance Control Dyn 18(4) 921-923 (Aug 1995), 1T404
Neural networks approach to AIAA aircraft control design challenge, J Guidance Control Dyn 18(4) 731-739 (Aug 1995), 1A417
Aircraft terrain following based on a nonlinear continuous predictive control approach, J Guidance Control Dyn 18(4) 817-823 (Aug 1995), 1A1117
All-moving active aerodynamic surface research, Smart Mat Struct 4(2) 65-74 (Jun 1995), 1A1118
Dihedral for spiral stability, J Aircraft 32(4) 891-894 (Aug 1995), 1T1119
Forebody vortex control using nose-boom strakes, J Aircraft 32(4) 896-898 (Aug 1995), 1T1120
Review of the influence of high angle of attack aerodynamics on aircraft dynamic stability, J Theor Appl Mech 33(3) 667-686 (1995), 1A1121
Stability derivatives for a hypersonic caret-wing waverider, J Aircraft 32(4) 795-803 (Aug 1995), 1A1122
Vortex control over sharp-edged slender bodies, J Aircraft 32(4) 739-745 (Aug 1995), 1A1123
Multi-variable control of an integrated propulsion and airframe system, J Syst Control Eng 209(I3) 179-190 (1995), 2A285
Minimum induced drag of a three-surface ultra high capacity aircraft, Proc Inst Mech Eng J Aerospace Eng 209(G3) 195-201 (1995), 2A1034
Feedback system design for stable plants with input saturation, J Guidance Control Dyn 18(5) 1029-1035 (Oct 1995), 3A335
Nonlinear predictive control of feedback linearizable systems and flight control system design, J Guidance Control Dyn 18(5) 1023-1028 (Oct 1995), 3A338
Back-to-turn optimal guidance with linear exponential quadratic Gaussian performance criterion, J Guidance Control Dyn 18(5) 951-958 (Oct 1995), 3A343
Optimal guidance and nonlinear estimation for interception of accelerating targets, J Guidance Control Dyn 18(5) 959-968 (Oct 1995), 3A352
Time-optimal lateral maneuvers of an aircraft, J Guidance Control Dyn 18(5) 1106-1112 (Oct 1995), 3A360
Disturbance rejection for an aircraft flying in atmospheric disturbances, Dyn Control 5(4) 389-400 (Oct 1995), 3A367
Hybrid fuzzy logic flight controller synthesis via pilot modeling, J Guidance Control Dyn 18(5) 1098-1105 (Oct 1995), 3T388
On-line learning neural-network controllers for autopilot systems, J Guidance Control Dyn 18(5) 1008-1015 (Oct 1995), 3A390
Aircraft flight control in wind shear using sequential dynamic inversion, J Guidance Control Dyn 18(5) 1084-1091 (Oct 1995), 3A991
Control stick logic in high-angle-of-attack maneuvering, J Guidance Control Dyn 18(5) 1092-1097 (Oct 1995), 3T1417
Nonlinear control law for aerial towed target, J Guidance Control Dyn 18(6) 1232-1238 (Dec 1995), 4A376
Resonance control of aircraft instabilities by smooth and continuous feedback, J Guidance Control Dyn 18(6) 1298-1304 (Dec 1995), 4T378
Dynamics of Flight: Stability and Control, Third Edition (Wiley, New York, 1995) 5N25
Rear fuselage flow studies on a modern transonic tranport aircraft, J Aircraft 32(6) 1183-1190 (Dec 1995), 5A997
Effects of a closely coupled static and oscillating canard, J Aircraft 32(6) 1390-1391 (Dec 1995), 5T1002
Flat spin of axisymmetric bodies, J Aircraft 32(6) 1205-1212 (Dec 1995), 5A1003
Four-dimensional guidance of atmospheric vehicles, J Guidance Control Dyn 19(1) 113-122 (Feb 1996), 6A309
Full envelope flight control system design using qualitative feedback theory, J Guidance Control Dyn 19(1) 23-29 (Feb 1996), 6A311
Optimal aircraft terrain-following flight with nonlinear engine dynamics, J Guidance Control Dyn 19(1) 240-242 (Feb 1996), 6T1021
Lateral and directional stability and control in air-to-air refueling, Proc Inst Mech Eng J Aerospace Eng 209(G4) 299-305 (1995), 6A1022
Integrated structural tailoring and control using adaptive materials for advanced aircraft wings, J Aircraft 33(1) 203-213 (Feb 1996), 7A1165
Literal Nyquist stability criterion for MIMO control systems, Int J Control 63(1) 55-65 (Jan 1996), 8A264
Analytical missile guidance laws with a time-varying transformation, J Guidance Control Dyn 19(2) 496-499 (Apr 1996), 8T306
Designing longitudinal motion control system of surface effect vehicle with pitch and height separate control, Russian Aeronaut 38(2) 31-36 (1995), 8A309
Fundamentals of designing information-control system during ensuring motion safety of surface effect vehicle, Russian Aeronaut 38(2) 44-49 (1995), 8A311
Longitudinal motion control system of surface effect vehicle, Russian Aeronaut 38(2) 37-43 (1995), 8A314
Surface effect vehicle flight control system with properties of adaptation, Russian Aeronaut 38(2) 16-22 (1995), 8A320
System of stabilizing the height of motion of surface effect vehicle over waved sea, Russian Aeronaut 38(2) 23-26 (1995), 8A321
Integrated aircraft-controller design using linear matrix inequalities, J Guidance Control Dyn 19(2) 445-452 (Apr 1996), 8T329
Design and robustness analysis of gain-scheduled control system for parabolic flight, J Guidance Control Dyn 19(2) 430-437 (Apr 1996), 8A1012
Inverse and optimal control for precision aerobatic maneuvers, J Guidance Control Dyn 19(2) 483-488 (Apr 1996), 8A1013
Aero- and gas dynamics of flight vehicles and their engines: A technique of aerodynamic design of surface effect vehicle airfoil, Russian Aeronaut 38(2) 50-58 (1995), 8A1014
Capture conditions for merging trajectory segments to model realistic aircraft descents, J Guidance Control Dyn 19(2) 453-460 (Apr 1996), 8T1015
Effect of actuator nonlinearities on aeroservoelasticity, J Guidance Control Dyn 19(2) 309-315 (Apr 1996), 8A1016
Nonlinear inverse dynamics control of aircraft using spoilers, J Guidance Control Dyn 19(2) 475-482 (Apr 1996), 8A1017
Stability augmentation design of a large flexible transport using nonlinear parameter optimization, J Guidance Control Dyn 19(2) 469-474 (Apr 1996), 8A1018
Stability of dynamic inversion control laws applied to nonlinear aircraft pitch-axis models, Int J Control 63(1) 1-25 (Jan 1996), 8A1019
Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, J Aircraft 33(2) 322-330 (Apr 1996), 9A235
Flow control over a maneuvering delta wing at high angles of attack, AIAA J 34(4) 662-668 (Apr 1996), 9A1226
Flying-qualities analysis of an unmanned air vehicle, J Aircraft 33(2) 331-336 (Apr 1996), 9A1227
Thrust vector control eyed for passenger aircraft: A novel methodology to combine jet-engine tests with sub-scale proof-of-concept flight tests, Int J Turbo Jet Engines 12(4) 241-251 (1995), 9A1228
Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, Int J Control 63(4) 641-678 (Mar 1996), 10A434
Second-order control optimization method for nonlinear dynamic systems and its application to optimal aircraft trajectory calculation, TsAGI 1(1) 84-94 (1994), 10A1204
Nonlinear flutter analysis of missiles with pneumatic fin actuators, J Guidance Control Dyn 19(3) 664-670 (Jun 1996), 11A226
Linear quadratic optimal model-following control of a helicopter in hover, Optimal Control Appl Methods 17(2) 123-140 (Jun 1996), 11A290
Parametric robustness evaluation of a H_∞ missile autopilot, J Guidance Control Dyn 19(3) 621-627 (Jun 1996), 11A315
Parametric uncrtainty reduction in robust missile autopilot design, J Guidance Control Dyn 19(3) 733-736 (Jun 1996), 11T316
Root-mean-square miss distance of proportional navigation missile against sinusoidal target, J Guidance Control Dyn 19(3) 563-568 (Jun 1996), 11T318
Design of an autoland controller for an F-14 aircraft using H_∞ synthesis, J Guidance Control Dyn 19(3) 656-663 (Jun 1996), 11A323
Dynamics of flight vehicle control surfaces with inertia coupling, Mech Syst Signal Processing 10(2) 183-195 (Mar 1996), 11A791
Evaluation of transition in flight tests using nonlinear parabolized stability equation analysis, J Aircraft 33(3) 554-560 (Jun 1996), 11A1028
F-15 forebody vortex flow control using jet nozzle blowing, J Aircraft 33(3) 491-498 (Jun 1996), 11A1029
Reduction of vertical tail buffet response using active control, J Aircraft 33(3) 617-622 (Jun 1996), 11A1030
X-31 aircraft: Advances in aircraft agility and performance, Prog Aerospace Sci 32(4) 377-413 (Aug 1996), 11A1031
X-31A system identification using single-surface excitation at high angles of attack, J Aircraft 33(3) 485-490 (Jun 1996), 11A1032

Race Car Vehicle Dynamics (SAE, Warrendale PA, 1995) 12N9
Investigations into Vehicle Aerodynamics (SAE, Warrendale PA, 1995) 12N41
Novel approach to reconfigurable control systems design, J Guidance Control Dyn 19(4) 963-966 (Aug 1996), 12T375
Attitude control for low lift-drag re-entry vehicles, J Guidance Control Dyn 19(4) 816-822 (Aug 1996), 12T381
Control of wing rock motion using adaptive feedback linearization, J Guidance Control Dyn 19(4) 905-912 (Aug 1996), 12A383
Flight envelopes for hypersonic aeroreservoirs at constant altitude, J Guidance Control Dyn 19(4) 941-947 (Aug 1996), 12T385
Multivariable control of the J-85 turbojet engine for full flight envelope operation, J Guidance Control Dyn 19(4) 913-920 (Aug 1996), 12A388
Optimized feedforward design scheme unifying regulator and command generator tracker, J Guidance Control Dyn 19(4) 899-904 (Aug 1996), 12A390
Adaptive control of feedback linearizable nonlinear systems with application to flight control, J Guidance Control Dyn 19(4) 871-877 (Aug 1996), 12A398
Adaptive-critic-based neural networks for aircraft optimal control, J Guidance Control Dyn 19(4) 893-898 (Aug 1996), 12A399
Nonlinear autopilot design for bank-to-turn steering of a flight vehicle, J Guidance Control Dyn 19(4) 978-979 (Aug 1996), 12T408
Periodic optimal flight, J Guidance Control Dyn 19(4) 745-755 (Aug 1996), 12A1170
Trailing-edge jet control of leading-edge vortices of a delta wing, AIAA J 34(7) 1447-1457 (Jul 1996), 12A1171

378L. Unsteady effects

Delta wing vortex control via recessed angled spanwise blowing, J Aircraft 32(4) 804-810 (Aug 1995), 1A1101
Vortex breakdown control by delta wing geometry, J Aircraft 32(4) 832-838 (Aug 1995), 1A1106
Vortex breakdown over a pitching delta wing, J Fluids Struct 9(3) 571-583 (Jul 1995), 1A1107
Model of the unsteady aerodynamics of a hovering helicopter rotor that includes variations of the wake geometry, J Am Helicopter Soc 40(3) 6-16 (Jul 1995), 1A1133
New model of rotor dynamics during pitch and roll of a hovering helicopter, J Am Helicopter Soc 40(3) 17-28 (Jul 1995), 1A1134
Evaluation of turbulence models for unsteady flows of an oscillating airfoil, Comput Fluids 24(7) 833-861 (Sep 1995), 2A1035
Origin of computed unsteadiness in the shear layer of delta wings, J Aircraft 32(5) 1146-1148 (Oct 1995), 2T1036
Buffeting of fin: Distortion of incident vortex, AIAA J 33(11) 2144-2150 (Nov 1995), 4A942
Buffeting of fins: An assessment of surface pressure loading, AIAA J 33(11) 2232-2234 (Nov 1995), 4T943
Model for unsteady rotor aerodynamics, J Wind Eng Indust Aerodyn 58(3) 259-275 (Dec 1995), 5T1004
Rotating nose tip effects on slender body aerodynamics at high angles of attack, J Spacecraft Rockets 32(6) 944-950 (Dec 1995), 5A1005
Topology of global separation on an airfoil in the presence of stationary disturbance sources, Thermophys and Aeromech 2(2) 105-112 (1995), 5T1006
Prediction of unsteady aerodynamic forces on maneuvering delta wings, J Fluids Struct 9(8) 925-936 (Nov 1995), 5A1010
Quasisteady aerodynamics for flutter analysis using steady computational fluid dynamics calculations, J Aircraft 33(1) 191-197 (Feb 1996), 7A293
Impulsive start of a symmetric airfoil at high angle of attack, AIAA J 34(2) 225-230 (Feb 1996), 7A1154
Effect of free-stream turbulence on sectional lift forces on a circular cylinder, J Fluid Mech 306 267-292 (Jan 1996), 7A1163
Ground facility interference effects on slender vehicle unsteady aerodynamics, J Aircraft 33(1) 117-124 (Feb 1996), 7A1166
Thrust generation due to airfoil flapping, AIAA J 34(2) 324-331 (Feb 1996), 7A1167
Vortex ingestion in a diffusing S-duct inlet, J Aircraft 33(1) 149-154 (Feb 1996), 7A1168
Mode tracking during flutter testing using the modal assurance criterion, Proc Inst Mech Eng J Aerospace Eng 210(G1) 27-37 (1996), 8A227
Effects of compressibility, pitch rate, and Reynolds number on unsteady incipient leading-edge boundary layer separation over a pitching airfoil, J Fluid Mech 308 195-217 (Feb 1996), 8A1008
Formation and internal structure of coherent vortices in the wake of a pitching airfoil, J Fluids Struct 10(1) 3-20 (Jan 1996), 8A1020
Nonclassical effects on divergence and flutter of anisotropic swept aircraft wings, AIAA J 34(4) 786-794 (Apr 1996), 9A322
Wingrove parameter: A new turbulence metric, J Aircraft 33(2) 363-368 (Apr 1996), 9A1199
Parametric effects on lift force of an airfoil in unsteady freestream, AIAA J 34(5) 1085-1087 (May 1996), 10T1193
Experimental and numerical investigations of dynamic stall on a pitching airfoil, AIAA J 34(5) 982-989 (May 1996), 10A1200
Aerospace aerothermodynamics, TsAGI 1(1) 10-24 (1994), 10A1205
Mathematical modeling of unsteady viscous flow over a 3D finite span wing, TsAGI 1(3) 73-83 (1994), 10T1206
Structure and development of a wing-tip vortex, J Fluid Mech 312 67-106 (Apr 1996), 10A1207
Difficulties in predicting vortex breakdown effects on a rolling delta wing, J Aircraft 33(3) 477-484 (Jun 1996), 11A1033
Numerical investigation of stall flutter, J Turbomachinery 118(2) 197-203 (Apr 1996), 11A1034
Unsteady aerodynamic model of flapping wings, AIAA J 34(7) 1435-1440 (Jul 1996), 12A1167
Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, AIAA J 34(7) 1420-1427 (Jul 1996), 12A1169

378M. Aerodynamic loads

Matched-filter and stochastic-simulation-based methods of gust loads prediction, J Aircraft 32(5) 1047-1055 (Oct 1995), 2A198
Analytical solutions for the actuator disk with variable radial distribution of load, J Fluid Mech 297 327-355 (Aug 1995), 2A1006
Sensitivity analysis of unsteady aerodynamic loads in cascades, AIAA J 33(9) 1604-1610 (Sep 1995), 2A1037
Axisymmetric oscillations of an opposing jet from a hemispherical nose, AIAA J 33(10) 1850-1856 (Oct 1995), 3A954
Aircraft flight control in wind shear using sequential dynamic inversion, J Guidance Control Dyn 18(5) 1084-1091 (Oct 1995), 3A991
Asymptotic theory of high-aspect-ratio arched wings in steady incompressible flow, J Fluid Mech 303 367-377 (Nov 1995), 4A1110
Double-delta-wing aerodynamics for pitching motions with and without sideslip, J Aircraft 32(6) 1303-1311 (Dec 1995), 5A991
Aerodynamics of a body immersed in a supersonic wake: A computational study, J Spacecraft Rockets 32(6) 938-943 (Dec 1995), 5A1007
Estimation of the moment coefficients for dynamically scaled, free-spinning wind-tunnel models, J Aircraft 32(6) 1407-1409 (Dec 1995), 5T1008
Multipoint approach for aerodynamic modeling in complex flowfields, J Aircraft 32(6) 1335-1341 (Dec 1995), 5A1009
Prediction of unsteady aerodynamic forces on maneuvering delta wings, J Fluids Struct 9(8) 925-936 (Nov 1995), 5A1010
Trailing vortex effects on large receiver aircraft, J Aircraft 32(6) 1198-1204 (Dec 1995), 5A1011
Validation of vortex-lattice method for loads on wings in lift-generated wakes, J Aircraft 32(6) 1254-1262 (Dec 1995), 5A1012
Wing rock analysis of slender delta wings: Review and extension, J Aircraft 32(6) 1221-1226 (Dec 1995), 5A1013
Application of chimera technique to projectiles in relative motion, J Spacecraft Rockets 32(5) 795-800 (Oct 1995), 5A1015
Investigation of the loads on truck cabin aerodynamic devices, Heavy Vehicle Syst 2(3-4) 208-224 (1995), 7A976
Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, JSME Int J Ser B 39(1) 101-111 (Feb 1996), 7T1080
Structural Loads Analysis Theory and Practice for Commercial Aircraft (AIAA, MD, 1995) 8N29
Aero- and gas-dynamics of flight vehicles and their engines: Configuration of surface effect vehicle studied in wind tunnel, Russian Aeronaut 38(2) 90-93 (1995), 8A1021
Investigation of combined scheme of designing air cushion, Russian Aeronaut 38(2) 94-96 (1995), 8A1022
Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, J Aircraft 33(2) 399-406 (Apr 1996), 9A1100
Extreme wind distribution tails: A "peaks over threshold" approach, J Struct Eng 122(5) 539-547 (May 1996), 10A1208
Static behaviors of long-span cable-stayed bridge (Japanese), Proc JSCE 537(I-35) 205-215 (Apr 1996), 11A781
Prediction of the aerodynamic loads on helicopter blades by lifting line method, Mec Appl 40(2-3) 253-264 (Jun 1995), 11A1035
Two dimensional unsteady aerodynamic force measurement by combination of complex modal information under wind action (Japanese), Proc JSCE 537(I-35) 183-190 (Apr 1996), 11A1037
Lateral wind effects on suspended cable, Facta Univ Mech Auto Control Robotic 1(5) 567-678 (1995), 12A581
Aeroprediction code for angles of attack above 30 degrees, J Spacecraft Rockets 33(3) 366-373 (Jun 1996), 12A1172
Response of a tactical missile to convected aerodynamic excitation, J Spacecraft Rockets 33(3) 360-365 (Jun 1996), 12A1173

378N. Icing

Turbine engine icing spray bar design issues, J Eng Gas Turbines Power 117(3) 406-412 (Jul 1995), 5A1014
Thermal calculation for anti-icer with micro-ejector, Chinese J Aeronaut 8(1) 74-79 (Feb 1995), 6A1023
Cratering phenomena on aircraft anti-icing films, J Aircraft 33(1) 131-138 (Feb 1996), 7A1169
Introductory analysis of boundary-layer development on de-anti-icing fluid, J Aircraft 33(1) 74-80 (Feb 1996), 7A1170
Investigation into ice detection parameters for turboprop aircraft, J Aircraft 33(1) 125-130 (Feb 1996), 7A1171
Wing crack models of the brittle compressive failure of ice, Cold Regions Sci Tech 24(1) 41-55 (Jan 1996), 8A1023
Characteristics of surface roughness associated with leading-edge ice accretion, J Aircraft 33(2) 316-321 (Apr 1996), 9A1229
Response of a research aircraft to icing and evaluation of severity indices, J Aircraft 33(2) 291-297 (Apr 1996), 9A1230

378O. Flight tests and instrumentation

Ablation analysis of the shuttle orbiter oxidation protected reinforced carbon-carbon, J Thermophys Heat Transfer 9(3) 478-485 (Sep 1995), 1A1124
Estimating noise characteristics from flight test data using optimal Fourier smoothing, J Aircraft 32(4) 689-695 (Aug 1995), 1A1125
Near real-time approach to statistical flight test, J Aircraft 32(4) 782-786 (Aug 1995), 1A1126
Comparison of theory with atomic oxygen radiance data from a rocket flight, J Thermophys Heat Transfer 9(4) 629-635 (Dec 1995), 3A992
Mass spectrometric investigation of high enthalpy plasma flows, J Thermophys Heat Transfer 9(4) 620-628 (Dec 1995), 3A993
Identification of a nonlinear aerodynamic model of the F-14 aircraft, J Guidance Control Dyn 18(6) 1292-1297 (Dec 1995), 4T336
Flow management techniques for base and afterbody drag reduction, Prog Aerospace Sci 32(2-3) 79-129 (1996), 6A954
Flight testing a general aviation head-up display, J Aircraft 33(1) 235-238 (Feb 1996), 7T1172
Integrated digital avionics to improve aircraft environmental control systems, J Aircraft 33(1) 238-240 (Feb 1996), 7T1173
Proposed flight testing standards for engine thrust vectoring to maximize kill ratios, post-stall agility and flight safety, Int J Turbo Jet Engines 12(4) 252-268 (1995), 9A1231

378P. Hypervelocity launchers and instrumentation

Rarefied neutral gases with velocities of 8-15 KM-S, TsAGI 1(3) 107-114 (1994), 10A1107
Numerical simulation of the blast-wave accelerator, AIAA J 34(7) 1341-1347 (Jul 1996), 12A254

378Y. Computational techniques

Computations of aerodynamic drag for spinning transonic projectiles using an implicit TVD scheme, Eng Comput 12(6) 529-544 (Sep 1995), 1A1013
Genetic algorithms applied to the aerodynamic design of transonic airfoils, J Aircraft 32(4) 889-891 (Aug 1995), 1T1127
Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf (ASME Press, New York, 1995) 2N46
Application of an artificial neural network as a flight test data estimator, J Aircraft 32(5) 1088-1094 (Oct 1995), 2A795
New computation technique of Glauert's integrals, Appl Math letters 8(5) 7-9 (Sep 1995), 2A1017
Comparison of a cell-center method and a cell-vertex method for the solution of the 2D unsteady Euler equations on a moving grid, Proc Inst Mech Eng J Aerospace Eng 209(G3) 203-213 (1995), 2A1038
Investigation of artificial dissipation for the cell-vertex finite volume method, Int J Numer Methods Fluids 21(6) 499-522 (Sep 1995), 2A1039
Multigrid computation of flow past airfoil using k-ε turbulence model, J Aerospace Eng 8(4) 180-188 (Oct 1995), 2A1040
Computational aspects of wing vortex wake roll-up, J Brazilian Soc Mech Sci 16(4) 359-366 (1994), 3A985
Calculation of the wing aerodynamic characteristics with ground effect using panel methods, J Theor Appl Mech 33(4) 909-919 (1995), 3A994
Classical panel methods: A routine tool for aerodynamic calculations of complex aircraft configurations: From concepts to codes, J Theor Appl Mech 33(4) 843-878 (1995), 3A995
Numerical solution of the generalized Prandtl equation using variation-diminishing splines, J Comput Appl Math 68(3) 297-307 (Jun 1995), 3A996
Quasisteady models of wind load on slender structures - Part III: Applications of quasisteady theory in aerodynamics of slender structures, Arch Civil Eng 41(3) 343-376 (1995), 3A997
Computation of the turbulent flow field around an aerofoil by k-ε-γ model in a non-staggered, C-type single-grid system, Commun Numer Methods Eng 11(11) 873-886 (Nov 1995), 4A1090
Alternative solution of the kernel function in subsonic unsteady lifting surface theory, AIAA J 33(11) 2228-2230 (Nov 1995), 4T1107
Direct boundary integral method for the 3D lifting flow, Comput Methods Appl Mech Eng 127(1-4) 357-370 (Nov 1995), 4A1111
Efficient parametrization of generic aircraft geometry, J Aircraft 32(6) 1269-1275 (Dec 1995), 5A736
Computational inlet-fairing effects and plume characterization on a hypersonic powered model, J Aircraft 32(6) 1240-1245 (Dec 1995), 5A898
Conservative multiblock Navier-Stokes solver for arbitrarily deforming geometries, J Aircraft 32(6) 1342-1350 (Dec 1995), 5A905
Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, J Aircraft 32(6) 1246-1253 (Dec 1995), 5A993
Surface reflective visualization system study to vortical flow over delta wings, J Aircraft 32(6) 1359-1366 (Dec 1995), 5A995
Batch simulation environment for integrated batch and piloted air combat analysis, J Aircraft 32(6) 1263-1268 (Dec 1995), 5A999
Validation of vortex-lattice method for loads on wings in lift-generated wakes, J Aircraft 32(6) 1254-1262 (Dec 1995), 5A1012
Application of chimera technique to projectiles in relative motion, J Spacecraft Rockets 32(5) 795-800 (Oct 1995), 5A1015
Boundary integral equation formulation of the Neumann problem for a vector field in R^3 with application to potential lifting flows, Eng Anal Boundary Elements 16(1) 5-17 (1995), 5A1016
Computational estimate of the separation effect, J Aircraft 32(6) 1322-1325 (Dec 1995), 5A1017
Grid sensitivity and aerodynamic optimization of generic airfoils, J Aircraft 32(6) 1234-1239 (Dec 1995), 5A1018
Network load in distributed interactive simulation, J Aircraft 32(6) 1392-1394 (Dec 1995), 5T1019
Simulation of DD-963 ship airwake by Navier-Stokes method, J Aircraft 32(6) 1399-1401 (Dec 1995), 5T1020
Validation of a multipoint approach for modeling spin aerodynamics, J Aircraft 32(6) 1409-1412 (Dec 1995), 5T1021
Vortex burst model for the vortex lattice method, J Aircraft 32(6) 1394-1396 (Dec 1995), 5T1022
Euler solutions for transonic oscillating cascade flows using dynamic triangular meshes, J Turbomachinery 117(3) 393-400 (Jul 1995), 5A1073
Use of a wake-integral method for computational drag, AIAA J 34(1) 188-190 (Jan 1996), 6T1018
Prediction of aerofoil wake subjected to the effects of curvature and pressure gradient, Int J Numer Methods Fluids 22(1) 29-41 (Jan 1996), 6A1024
Numerical simulation of forced and free-to-roll delta-wing motions, J Aircraft 33(1) 93-99 (Feb 1996), 7A1157
Grid fin aerodynamics for missile applications in subsonic flow, J Spacecraft Rockets 33(1) 38-44 (Feb 1996), 7A1174
Infeasible path optimal design methods with applications to aerodynamic shape optimization, AIAA J 34(2) 217-224 (Feb 1996), 7A1175
Parallel implicit incompressible flow solver using unstructured meshes, Comput Fluids 25(2) 119-132 (Feb 1996), 8A911
Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, Comput Fluids 25(2) 217-236 (Feb 1996), 8A990
Flight validation of the computer program CBAS (cable body airborne simulator), Proc Inst Mech Eng J Aerospace Eng 210(G1) 93-100 (1996), 8A1024
Method of calculating finite wing flow by stream of ideal incompressible fluid near the surface, Russian Aeronaut 38(2) 59-63 (1995), 8A1025
Qualitative features of high lift hovering dynamics and inertial manifolds, Theor Comput Fluid Dyn 8(2) 89-104 (1996), 8A1026
Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical

and Applied Mechanics (AIP, Woodbury, NY, 1996) 9N20
Acceleration techniques for an aeroelastic Euler method for a hovering rotor, J Aircraft 33(2) 429-434 (Apr 1996), 9A324
Vortex lattice method for high-speed planing, Int J Numer Methods Fluids 22(6) 495-513 (Mar 1996), 9A1221
Effects of sensitivity derivatives on aerodynamic design optimization, Inverse Prob Eng 2(3) 213-225 (1996), 9A1232
Parallel computational fluid dynamics design on network-based computer, J Aircraft 33(3) 561-566 (Jun 1996), 11A923
Computational environment for exhaust nozzle design, J Aircraft 33(3) 470-476 (Jun 1996), 11A968
Mathematical simulation of near-vertical flight of fixed-wing aircraft, J Aircraft 33(3) 644-647 (Jun 1996), 11T1036
Application of a numerical procedure for the dynamic analysis of plane aeronautical structures, J Sound Vib 193(5) 957-983 (Jun 1996), 12A1174
Computation of supersonic flow over spatial configurations with sharp leading edges, Thermophys and Aeromech 2(3) 227-234 (1995), 12T1175

378Z. Experimental techniques

Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, J Thermophys Heat Transfer 9(3) 416-421 (Sep 1995), 1A1128
Indirect determination of heat flux to a lander heat protection system, J Thermophys Heat Transfer 9(3) 494-498 (Sep 1995), 1A1276
Numerical and experimental study of a wingtip vortex in the near field, AIAA J 33(9) 1561-1568 (Sep 1995), 2A1018
Skin-friction measurements and calculations on a lifting airfoil, AIAA J 34(2) 231-236 (Feb 1996), 7A1159
Comparison of two methods for direct measurement of sectional fluctuating lift on a circular cylinder, Exp Fluids 20(3) 232-233 (Jan 1996), 7A1162
Vortex ingestion in a diffusing S-duct inlet, J Aircraft 33(1) 149-154 (Feb 1996), 7A1168
Flow visualization during multiple-axis motions using a wind-driven manipulator, J Aircraft 33(1) 163-170 (Feb 1996), 7A1176
Experiments and analysis for a gust generator in a wind tunnel, J Aircraft 33(1) 139-148 (Feb 1996), 7A1199
Pressure sensitive paint in transonic wind-tunnel testing of the F-15, J Aircraft 33(1) 109-116 (Feb 1996), 7A1200
Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, J Aircraft 33(2) 414-420 (Apr 1996), 9A1233
Experimental and numerical investigations of dynamic stall on a pitching airfoil, AIAA J 34(5) 982-989 (May 1996), 10A1200
Evaluation of correlated bias approximations in experimental uncertainty analysis, AIAA J 34(5) 1013-1018 (May 1996), 10A1209
Generation of flow periodicity in a wind-tunnel experiment, J Theor Appl Mech 34(2) 475-488 (1996), 10A1210
Measurement of catalytic recombination coefficients on quartz using laser-induced fluorescence, J Thermophys Heat Transfer 10(2) 224-233 (Jun 1996), 10A1211
Vortex shedding from circular cylinder in oscillatory incident flow, J Theor Appl Mech 34(2) 459-473 (1996), 10A1212
Full-scale wind-tunnel studies of F/A-18 tail buffet, J Aircraft 33(3) 589-595 (Jun 1996), 11A1026
Two dimensional unsteady aerodynamic force measurement by combination of complex modal information under wind action (Japanese), Proc JSCE 537(I-35) 183-190 (Apr 1996), 11A1037

380. MACHINERY FLUID DYNAMICS

380B. Fundamentals

Individual Papers in Fluids Engineering - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N31
Fast, accurate real gas equation of state for fluid dynamic analysis applications, J Fluids Eng 117(2) 277-281 (Jun 1995), 1A1129
Fluid Machinery - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N37
Simplified approach for control of rotating stall - Part I: Theoretical development, J Propulsion Power 11(6) 1195-1209 (Dec 1995), 4A1112
Control-oriented high-frequency turbomachinery modeling: General 1D model development, J Turbomachinery 117(3) 320-335 (Jul 1995), 5A1023
Reformulation of the momentum theory applied to wind turbines, J Wind Eng Indust Aerodyn 58(3) 277-292 (Dec 1995), 5T1024
Unsteady flowfield and torque predictions during the rotation of the guidevanes of hydraulic turbine, J Fluids Eng 117(3) 468-472 (Sep 1995), 5A1065
Handbook of Fluid Dynamics and Fluid Machinery (Wiley, New York, 1995) 6N30
Study of planar orbiting mechanism and its application to scroll fluid machinery, Mech Machine Theory 31(5) 705-716 (Jul 1996), 11A1038

380C. Unsteady flow and systems stability

Design procedure for evaluating stability of turbomachinery supported on squeeze film dampers, J Trib 117(4) 742-747 (Oct 1995), 5T1025
Response of a centrifugal pump to fluctuating rotational speed, J Fluids Eng 117(3) 479-484 (Sep 1995), 5A1026
Concept of boiling-up shock, Russian Aeronaut 38(1) 82-85 (1995), 6A201
Effects of start-up transient loads on shoe bearings for large hydraulic pump-turbines, Trib Trans 39(1) 93-98 (Jan 1996), 6A1025
Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, Trib Trans 39(2) 398-406 (Apr 1996), 8A821
Loss Mechanisms and Unsteady Flows in Turbomachines - AGARD Conf Proc 571, Propulsion and Energetics Panel, 85th Symp, May, 1995, Derby, UK (AGARD-NATO, Neuilly-sur-Seine, France, 1996) 9N17
Measurement of positive displacement pump flow ripple and impedance, J Syst Control Eng 210(I1) 65-74 (1996), 9A345
Unstable flow in centrifugal fans, J Fluids Eng 118(1) 128-133 (Mar 1996), 9A1236
Study of vaneless diffuser rotating stall based on 2D inviscid flow analysis, J Fluids Eng 118(1) 123-127 (Mar 1996), 9A1238
Unsteady aerodynamics associated with a horizontal-axis wind turbine, AIAA J 34(7) 1410-1419 (Jul 1996), 12A1433

380D. Turbines (gas and vapors)

Numerical Simulations in Turbomachinery - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N45
Numerical analysis of the flowfields in a staged gas turbine combustor, J Propulsion Power 11(5) 894-898 (Oct 1995), 2A1041
Wells air turbine for wave energy conversion, Prog Aerospace Sci 31(4) 335-386 (1995), 2A1042
Advances in Engine Technology - EC Aeronautics Research Series (Wiley, UK, 1995) 4R21
Thermacoustic oscillations in combustion chambers of gas turbines, AIAA J 33(12) 2280-2287 (Dec 1995), 4A308
Air flow in cavities of labyrinth seals, Int J Eng Sci 33(15) 2309-2326 (Dec 1995), 4A1113
Euler-based inverse method for turbomachine blades - Part I: Two-dimensional cascades, AIAA J 33(12) 2309-2315 (Dec 1995), 4A1114
Numerical analysis of the flow field through a turbine stage with bucket tip clearance, JSME Int J Ser B 38(4) 593-599 (Nov 1995), 4A1115
Model for unsteady rotor aerodynamics, J Wind Eng Indust Aerodyn 58(3) 259-275 (Dec 1995), 5T1004
Reformulation of the momentum theory applied to wind turbines, J Wind Eng Indust Aerodyn 58(3) 277-292 (Dec 1995), 5T1024
Advantages of air conditioning and supercharging an LM6000 gas turbine inlet, J Eng Gas Turbines Power 117(3) 513-527 (Jul 1995), 5A1027
Arbitrary surface flank milling of fan, compressor, and impeller blades, J Eng Gas Turbines Power 117(3) 534-539 (Jul 1995), 5A1028
Ash deposition in a wood-fired gas turbine, J Eng Gas Turbines Power 117(3) 509-512 (Jul 1995), 5A1029
Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, J Eng Gas Turbines Power 117(3) 489-498 (Jul 1995), 5A1030
Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, J Eng Gas Turbines Power 117(3) 499-508 (Jul 1995), 5A1031
Design and development of the WR-21 intercooled recuperated (ICR) marine gas turbine, J Eng Gas Turbines Power 117(3) 557-562 (Jul 1995), 5A1032
Gas turbine acoustic enclosure design by the statistical energy analysis method, J Eng Gas Turbines Power 117(3) 554-556 (Jul 1995), 5A1033
Laser guidance for repairing gas turbine parts, J Eng Gas Turbines Power 117(3) 540-544 (Jul 1995), 5A1034
Measurements of the flow in an idealized turbine tip gap, J Turbomachinery 117(4) 578-584 (Oct 1995), 5A1035
Numerical analysis of nozzle and afterbody flow of hypersonic transport systems, J Eng Gas Turbines Power 117(3) 389-393 (Jul 1995), 5A1036
Optimal design of split ring dampers for gas turbine engines, J Eng Gas Turbines Power 117(3) 569-575 (Jul 1995), 5A1037
Part-load operation of combined cycle plants with and without supplementary firing, J Eng Gas Turbines Power 117(3) 475-483 (Jul 1995), 5A1038
Updating the ANSI Standard on measurement of exhaust emissions, J Eng Gas Turbines Power 117(3) 563-568 (Jul 1995), 5A1039
Use of imposed displacements to determine impact forces in a multiple blade shed incident, J Eng Gas Turbines Power 117(3) 600-605 (Jul 1995), 5A1040
Endwall and unsteady flow phenomena in an axial turbine stage, J Turbomachinery 117(4) 562-570 (Oct 1995), 5A1055
Flow in a second-stage nozzle of a low-speed axial turbine and its effect on tip clearance loss development, J Turbomachinery 117(4) 571-577 (Oct 1995), 5A1057
Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, J Turbomachinery 117(3) 461-473 (Jul 1995), 5A1140
Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, J Turbomachinery 117(3) 474-484 (Jul 1995), 5A1141
Influence of secondary flows near the endwall and boundary layer disturbance on convective transport from a turbine blade, J Turbomachinery 117(4) 657-665 (Oct 1995), 5A1142
Surface heat transfer from a three-pass blade cooling passage simulator, J Turbomachinery 117(4) 650-656 (Oct 1995), 5A1146
Development of the 2400G stationary gas engines, J Eng Gas Turbines Power 117(4) 810-819 (Oct 1995), 5A1225
Advanced gas engine cogeneration technology for special applications, J Eng Gas Turbines Power 117(4) 826-831 (Oct 1995), 5A1267
Calculation of two-phase flow in gas turbine combustors, J Eng Gas Turbines Power 117(4) 695-703 (Oct 1995), 5A1268
Ceramic gas turbine technology development, J Eng Gas Turbines Power 117(4) 783-791 (Oct 1995), 5A1269
Combined cycle designed to achieve greater than 60 percent efficiency, J Eng Gas Turbines Power 117(4) 734-741 (Oct 1995), 5A1270
Combined power plants: Past, present, and future, J Eng Gas Turbines Power 117(4) 608-616 (Oct 1995), 5A1271
Design and development of a direct injected, glow plug ignition-assisted, natural gas engine, J Eng Gas Turbines Power 117(4) 799-803 (Oct 1995), 5A1272
Detailed measurements on a modern combustor dump diffuser system, J Eng Gas Turbines Power 117(4) 678-685 (Oct 1995), 5A1273
Development of 300 kW class ceramic gas turbine (CGT303), J Eng Gas Turbines Power 117(4) 777-782 (Oct 1995), 5A1274
Development requirements for an advanced gas turbine system, J Eng Gas Turbines Power 117(4) 724-733 (Oct 1995), 5A1275
Flow field and performance characteristics of combustor diffusers: A basic study, J Eng Gas Turbines Power 117(4) 686-694 (Oct 1995), 5A1279
Gas-operated bearing damper for turbomachinery - theoretical predictions versus experimental measurements - Part II: Experimental results and comparison with theory, J Eng Gas Turbines Power 117(4) 750-756 (Oct 1995), 5A1280
Integration of magnetic bearings in the design of advanced gas turbine engines, J Eng Gas Turbines Power 117(4) 655-665 (Oct 1995), 5A1281
Landfill gas application development of the Caterpillar G3600 spark-ignited gas engine, J Eng Gas Turbines Power 117(4) 820-825 (Oct 1995), 5A1282
Medway: A high-efficiency combined cycle power plant design, J Eng Gas Turbines Power 117(4) 713-723 (Oct 1995), 5A1283
Methodology to assess design uncertainty in selecting affordable gas turbine technology, J Eng Gas Turbines Power 117(4) 666-672 (Oct 1995), 5A1284
Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, J Eng Gas Turbines Power 117(4) 704-712 (Oct 1995), 5A1286
Role of fuel preparation in low-emission combustion, J Eng Gas Turbines Power 117(4) 617-654 (Oct 1995), 5A1287
System evaluation and LBTU fuel combustion studies for IGCC power generation, J Eng Gas Turbines Power 117(4) 673-677 (Oct 1995), 5A1288
Theoretical and experimental investigation of a gas-operated bearing damper for turbomachinery - Part I: Theoretical model and predictions, J Eng Gas Turbines Power 117(4) 742-749 (Oct 1995), 5A1289
Thermoeconomic optimization of sensible heat thermal storage for cogenerated waste-to-energy recovery, J Eng Gas Turbines Power 117(4) 832-836 (Oct 1995), 5A1290
Experimental and numerical study of transonic turbine cascade flow, AIAA J 34(1) 104-109 (Jan 1996), 6A1026
Potential of gas turbine propulsion in modern merchant shipping, Int J Turbo Jet Engines 12(3) 201-212 (1995), 6A1027
Unsteady multistage analysis using a loosely coupled blade row approach, J Propulsion Power 12(2) 274-282 (Apr 1996), 8A1027
Application of a genetic algorithm to wind turbine design, J Energy Resources Tech 118(1) 22-28 (Mar 1996), 8A1394
Fundamentals of Gas Turbines, Second Edition (Wiley, New York, 1995) 9N16
Loss Mechanisms and Unsteady Flows in Turbomachines - AGARD Conf Proc 571, Propulsion and Energetics Panel, 85th Symp, May, 1995, Derby, UK (AGARD-NATO, Neuilly-sur-Seine, France, 1996) 9N17
Practical Guide to Steam Turbine Technology (McGraw-Hill, New York, 1996) 9N19
Design methods of volute casings for turbocharger turbine applications, Proc Inst Mech Eng A 210(A2) 149-156 (1996), 10A1213
Design and test of a small, high pressure ratio radial turbine, J Turbomachinery 118(2) 362-370 (Apr 1996), 11A1039
Film cooling of the gas turbine endwall by discrete-hole injection, J Turbomachinery 118(2) 278-284 (Apr 1996), 11A1040
Identification of parameter coupling in turbine design using neural networks, J Propulsion Power 12(3) 503-508 (Jun 1996), 11A1041
Method for plotting the gasodynamic field in the rotor of a cryogenic turboexpander, Mec Appl 40(4-6) 453-460 (Dec 1995), 11A1042
Radial mixing in an axial turbine, J Turbomachinery 118(2) 262-267 (Apr 1996), 11A1043
Simulation of cooling systems in gas turbines, J Turbomachinery 118(2) 301-306 (Apr 1996), 11A1044
Windage heating of air passing through labyrinth seals, J Turbomachinery 118(2) 414-419 (Apr 1996), 11A1045
Fluid Dynamics and Heat Transfer of Turbomachinery (Wiley, New York, 1996) 12R38
Modeling of supercharger turbines in internal-combustion engines, Int J Mech Sci 38(8-9) 853-869 (Sep 1996), 12A1176
Relative effect of pressure losses and inefficiencies of turbomachines on the performance of the heat-exchange gas turbine cycle, Appl Thermal Eng 16(8-9) 769-776 (Sep 1996), 12A1177
Utilization of recuperated and regenerated engine cycles for high-efficiency gas turbines in the 21st Century, Appl Thermal Eng 16(8-9) 635-653 (Sep 1996), 12A1178
Performance tests of a Benesh wind turbine rotor and a Savonius rotor, Wind Eng 19(6) 349-362 (1995), 12T1432
Unsteady aerodynamics associated with a horizontal-axis wind turbine, AIAA J 34(7) 1410-1419 (Jul 1996), 12A1433

380E. Turbines (hydraulic)

Methodology for Wells turbine design for wave energy conversion, Proc Inst Mech Eng A 209(A3) 221-232 (1995), 1A1432
Measurement and analysis of static pressure field in a torque converter turbine, J Fluids Eng 117(3) 473-478 (Sep 1995), 5A1041
Effects of start-up transient loads on shoe bearings for large hydraulic pump-turbines, Trib Trans 39(1) 93-98 (Jan 1996), 6A1025
Study of the sozzle flow in a cross-flow turbine, Int J Mech Sci 38(3) 283-302 (Mar 1996), 6A1028
Theoretical study of the performance of an axial flow turbine for a microhydro installation, Proc Inst Mech Eng A 210(A2) 121-129 (1996), 10A1214
Scale effect and the coefficient V of hydraulic losses for Francis turbines, Mec Appl 40(4-6) 425-452 (Dec 1995), 11A1046

380F. Propellers in liquids

Hydrodynamic Propulsion and Its Optimization: Analytic Theory - Fluid Mechanics and Its Applications Series, Vol 27 (Kluwer, Netherlands, 1995) 4R24
Application of a strain gauge technique to the measurement of the power characteristics of five impellers, Exp Fluids 20(1) 56-58 (Nov 1995), 5A1042
Fluid-structure coupling kinetic analysis of propellers (Chinese), J Dalian Univ Tech 36(2) 219-223 (Mar 1996), 9A1234
Inverse energy cascade in 2D low Reynolds number bubbly flows, J Fluid Mech 314 315-330 (May 1996), 11A1047

380G. Cavitation effects

Cavitation and Gas-Liquid Flow in Fluid Machinery Devices - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N34

380H. Centrifugal fans, pumps, compressors

Numerical simulations of flows in centrifugal turbomachinery, J Propulsion Power 11(5) 899-907 (Oct 1995), 2A1043

Laminar flow rotor for a radial inflow turbine, J Propulsion Power 11(6) 1170-1178 (Dec 1995), 4A1116

Stall inception in single-stage, transonic compressors with straight and swept leading edges, J Propulsion Power 11(6) 1363-1366 (Dec 1995), 4A1117

Response of a centrifugal pump to fluctuating rotational speed, J Fluids Eng 117(3) 479-484 (Sep 1995), 5A1026

Advanced turbofan blade refurbishment technique, J Turbomachinery 117(4) 666-667 (Oct 1995), 5T1043

Experimental investigation and performance analysis of six low flow coefficient centrifugal compressor stages, J Turbomachinery 117(4) 585-592 (Oct 1995), 5A1044

Forging of compressor blades: Temperature and ram velocity effects, J Eng Gas Turbines Power 117(3) 528-533 (Jul 1995), 5A1045

Mean streamline aerodynamic performance analysis of centrifugal compressors, J Turbomachinery 117(3) 360-366 (Jul 1995), 5A1046

Off-design flow measurements in a centrifugal compressor vaneless diffuser, J Turbomachinery 117(4) 602-610 (Oct 1995), 5A1047

Velocity measurements downstream of the impellers in a multistage centrifugal blower, J Turbomachinery 117(4) 593-601 (Oct 1995), 5A1048

Navier-Stokes analysis of a controlled-diffusion compressor cascade at increasing inlet flow angles, Int J Turbo Jet Engines 12(3) 161-172 (1995), 6A1029

Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, Trib Trans 39(2) 398-406 (Apr 1996), 8AR21

Three-dimensional flow measurements in conical and straight wall centrifugal compressor vaneless diffusers, Proc Inst Mech Eng C 210(C1) 51-61 (1996), 8A1028

Numerical calculation of 2D, unsteady flow in centrifugal pumps: Impeller and volute interaction, Int J Numer Methods Fluids 22(6) 467-481 (Mar 1996), 9A1235

Unstable flow in centrifugal fans, J Fluids Eng 118(1) 128-133 (Mar 1996), 9A1236

Pump Characteristics and Applications (Marcel Dekker, New York, 1996) 10N31

Air-water two-phase flow performance of centrifugal pump impellers with various blade angles, JSME Int J Ser B 39(2) 223-229 (May 1996), 11T1048

Compression processes and performance analysis of a high-pressure reciprocating gas compressor, Proc Inst Mech Eng C 210(C2) 153-165 (1996), 11A1049

Detailed stress tensor measurements in a centrifugal compressor vaneless diffuser, J Turbomachinery 118(2) 394-399 (Apr 1996), 11A1050

Development of cryosorption pump for neutral beam injector, Fusion Eng Des 31(1) 89-97 (Apr 1996), 11A1051

Experimental and computational investigation of flow in a radial inlet of an industrial pipeline centrifugal compressor, J Turbomachinery 118(2) 371-384 (Apr 1996), 11A1052

Experimental study of TPU turbines of some domestic liquid-propellant engines, Russian Aeronaut 38(3) 89-94 (1995), 11A1053

Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, J Dyn Syst Meas Control 118(2) 253-258 (Jun 1996), 12A423

380I. Axial fans, pumps, compressors

Stall inception in a multistage high-speed axial compressor, J Propulsion Power 11(5) 915-922 (Oct 1995), 2A1044

Note on the aeroacoustic source character of in-duct axial fans, J Sound Vib 186(4) 589-598 (Oct 1995), 3A253

Advances in Engine Technology - EC Aeronautics Research Series (Wiley, UK, 1995) 4R21

Design of hydraulic ram pump systems, Proc Inst Mech Eng A 209(A4) 313-322 (1995), 4A1118

Dynamic control of rotating stall in axial flow compressors using aeromechanical feedback, J Turbomachinery 117(3) 307-319 (Jul 1995), 5A1049

Experimental investigation of the flow through an axial-flow pump, J Fluids Eng 117(3) 485-490 (Sep 1995), 5A1050

New endwall model for axial compressor throughflow calculations, J Turbomachinery 117(4) 533-540 (Oct 1995), 5A1051

Structure of tip clearance flow in axial flow compressors, J Turbomachinery 117(3) 336-347 (Jul 1995), 5A1062

Active control of surge in multi-stage axial-flow compressors, Proc Inst Mech Eng J Aerospace Eng 209(G4) 249-258 (1995), 6A1030

Optimization of axial-flow pump cascade solidity subject to cavitation-and separation-free constraints, Int J Turbo Jet Engines 12(3) 231-236 (1995), 6A1031

Matching engine and aircraft lapse rates for high speed civil aircraft, J Aircraft 33(1) 61-67 (Feb 1996), 7A1177

Flow visualization and the 3D flow in the axial-flow pump, J Propulsion Power 12(2) 250-259 (Apr 1996), 8A1029

Predicting the behavior of slipper pads in swashplate-type axial piston pumps, J Dyn Syst Meas Control 118(1) 41-47 (Mar 1996), 9A1237

Pump Characteristics and Applications (Marcel Dekker, New York, 1996) 10N31

Design of axial flow fans with high aerodynamic loading, Forschung Ingenieur 62(3) 58-64 (Mar 1996), 11A1054

Effects of rotating inlet distortion on multistage compressor stability, J Turbomachinery 118(2) 181-188 (Apr 1996), 11A1055

Minimization of the exit loss of a rotor-only axial fan, Eng Optim 26(1) 25-33 (Apr 1996), 11A1056

Rotating stall in a single-stage axial flow compressor, J Turbomachinery 118(2) 189-196 (Apr 1996), 11A1057

Off-design transition and separation behavior of a CDA cascade, J Turbomachinery 118(2) 204-210 (Apr 1996), 11A1061

Modeling and designing a variable-displacement open-loop pump, J Dyn Syst Meas Control 118(2) 267-271 (Jun 1996), 12A426

380K. Mixed flow fans, pumps, compressors

Comparison between EBW and GTAW for Turmo IV C compressor blade repairs, J Eng Gas Turbines Power 117(3) 545-553 (Jul 1995), 5A1052

Unified variable-domain variational theory of hybrid problems for compressible S_2-flow in mixed-flow turbomachinery, Int J Turbo Jet Engines 12(3) 213-222 (1995), 6A1032

Vibratory control of a centrifugal compressor - Adjustment measurement-computation: Choice of a surveillance method, Rev Francaise Mec 0(1) 67-75 (1996), 11T102

380L. Rotor and inducer blading

Unsteady fluid forces on a blade in a cross-flow turbine, JSME Int J Ser B 38(3) 404-410 (Aug 1995), 1A259

Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, J Sound Vib 184(5) 871-885 (Aug 1995), 1A1138

Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, J Sound Vib 184(5) 887-906 (Aug 1995), 1A1139

Comparison between numerically modeled and experimentally measured wave-rotor loss mechanisms, J Propulsion Power 11(5) 908-914 (Oct 1995), 2A1045

Aerodynamic damping of blade flap motions at high angles of attack, J Solar Energy Eng 117(3) 194-199 (Aug 1995), 3A998

Prediction of wind turbine rotor loads using the Beddoes-Leishman model for dynamic stall, J Solar Energy Eng 117(3) 200-204 (Aug 1995), 3A999

Three-dimensional Navier-Stokes heat transfer predictions for turbine blade rows, J Propulsion Power 11(6) 1179-1186 (Dec 1995), 4A1119

Computation of unsteady viscous flow through turbomachinery blade row due to upstream rotor wakes, J Turbomachinery 117(4) 541-552 (Oct 1995), 5A1053

Effect of adding roughness and thickness to a transonic axial compressor rotor, J Turbomachinery 117(4) 491-505 (Oct 1995), 5A1054

Endwall and unsteady flow phenomena in an axial turbine stage, J Turbomachinery 117(4) 562-570 (Oct 1995), 5A1055

Factors affecting measured axial compressor tip clearance vortex circulation, J Turbomachinery 117(3) 487-490 (Jul 1995), 5T1056

Flow in a second-stage nozzle of a low-speed axial turbine and its effect on tip clearance loss development, J Turbomachinery 117(4) 571-577 (Oct 1995), 5A1057

Measurement of turbine blade-tip rotordynamic excitation forces, J Turbomachinery 117(3) 384-392 (Jul 1995), 5A1058

Measurements of the tip clearance flow for a high-Reynolds-number axial-flow rotor, J Turbomachinery 117(4) 522-532 (Oct 1995), 5A1059

Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, J Turbomachinery 117(4) 553-561 (Oct 1995), 5A1060

Retained lift: Theoretical difficulties with the concept and an alternative explanation of observations, J Turbomachinery 117(3) 485-487 (Jul 1995), 5T1061

Structure of tip clearance flow in axial flow compressors, J Turbomachinery 117(3) 336-347 (Jul 1995), 5A1062

Unsteady 3D flow in a single-stage transonic fan - Part I: Unsteady rotor exit flow field, J Turbomachinery 117(4) 506-513 (Oct 1995), 5A1063

Numerical simulation of tip clearance effects in turbomachinery, J Turbomachinery 117(3) 348-359 (Jul 1995), 5A1074

Effect of tip clearance at midspan section of controlled diffusion compressor cascade, Int J Turbo Jet Engines 12(3) 223-229 (1995), 6A1033

Vibration analysis of shaft-bladed disk system by using substructure synthesis and assumed modes method, J Sound Vib 189(5) 587-608 (Feb 1996), 7A208

Iterative use of a time-marching code for designing turbomachine blade rows, Comput Fluids 25(2) 197-216 (Feb 1996), 8A1030

Numerical analysis of aerodynamic performance of rotors with leading-edge slats, Comput Mech 17(5) 335-342 (Mar 1996), 10A1215

Numerical prediction of periodic vortex shedding in subsonic and transonic turbine cascade flows, Int J Numer Methods Fluids 22(9) 881-897 (May 1996), 10A1216

Air-water two-phase flow performance of centrifugal pump impellers with various blade angles, JSME Int J Ser B 39(2) 223-229 (May 1996), 11T1048

Design study of radial inflow turbines with splitter blades in 3D flow, J Turbomachinery 118(2) 353-361 (Apr 1996), 11A1058

Effect of tip clearance on a swept transonic compressor rotor, J Turbomachinery 118(2) 230-239 (Apr 1996), 11A1059

Experimental and computational investigation of the tip clearance flow in a transonic axial compressor rotor, J Turbomachinery 118(2) 218-229 (Apr 1996), 11A1060

Off-design transition and separation behavior of a CDA cascade, J Turbomachinery 118(2) 204-210 (Apr 1996), 11A1061

Transition modeling effects on turbine rotor blade heat transfer predictions, J Turbomachinery 118(2) 307-313 (Apr 1996), 11A1062

Effect of film hole row location on film effectiveness on a gas turbine blade, J Heat Transfer 118(2) 327-333 (May 1996), 11A1096

Arbitrary blade section design based on viscous considerations: Background information, J Fluids Eng 118(2) 358-363 (Jun 1996), 12A1179

Arbitrary blade section design based on viscous considerations: Blade optimization, J Fluids Eng 118(2) 364-369 (Jun 1996), 12A1180

Finite-element model of the cyclic aerodynamic loading of a turbine rotor due to an upstream stator, Int J Comput Fluid Dyn 6(4) 291-306 (1996), 12A1181

Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, Wind Eng 19(6) 363-370 (1995), 12T1182

Turbulent flow simulation of a runner for Francis hydraulic turbines using pseudo-compressibility, J Fluids Eng 118(2) 285-291 (Jun 1996), 12A1183

380M. Stator vanes, inlet guide vanes, diffuser vanes

Industrial and Environmental Applications of Fluid Mechanics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N41

Advances in Engine Technology - EC Aeronautics Research Series (Wiley, UK, 1995) 4R21

Numerical analysis of the flow field through a turbine stage with bucket tip clearance, JSME Int J Ser B 38(4) 593-599 (Nov 1995), 4A1115

Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, J Turbomachinery 117(4) 553-561 (Oct 1995), 5A1060

Unsteady 3D flow in a single-stage transonic fan - Part II: Unsteady stator exit flow field, J Turbomachinery 117(4) 514-521 (Oct 1995), 5A1064

Unsteady flowfield and torque predictions during the rotation of the guidevanes of hydraulic turbine, J Fluids Eng 117(3) 468-472 (Sep 1995), 5A1065

Improving curved subsonic diffuser performance with vortex generators, AIAA J 34(1) 65-72 (Jan 1996), 6A965

Flow characteristics in a large area ratio curved diffuser, Proc Inst Mech Eng J Aerospace Eng 210(G1) 65-75 (1996), 8A1031

Study of vaneless diffuser rotating stall based on 2D invicid flow analysis, J Fluids Eng 118(1) 123-127 (Mar 1996), 9A1238

Flow behavior around stayvanes and guidevanes of a Francis turbine, J Fluids Eng 118(1) 110-115 (Mar 1996), 9A1240

Endwall heat transfer measurements in an annular cascade of nozzle guide vanes at engine representative Reynolds and Mach numbers, Int J Heat Fluid Flow 17(2) 139-147 (Apr 1996), 11A1063

Influence of blade wakes on the performance of interturbine diffusers, J Turbomachinery 118(2) 347-352 (Apr 1996), 11A1064

Inverse design of centrifugal compressor vaned diffusers in inlet shear flows, J Turbomachinery 118(2) 385-393 (Apr 1996), 11A1065

Investigation of the flow field downstream of a turbine trailing edge cooled nozzle guide vane, J Turbomachinery 118(2) 291-300 (Apr 1996), 11A1066

Development of a 2D turbulent wake in a curved channel with a positive streamwise pressure gradient, J Fluids Eng 118(2) 292-299 (Jun 1996), 12A1120

Analysis of helicopter blade vortex structure by laser velocimetry, Exp Fluids 21(1) 33-42 (May 1996), 12A1184

Three-dimensional flow field measurements using LDV in the exit region of a radial inflow turbine, Exp Fluids 21(1) 1-10 (May 1996), 12A1185

380N. Jet pumps and compressors

Liquid jet pumps for two-phase flows, J Fluids Eng 117(2) 309-316 (Jun 1995), 1A1130

Analysis of leakage in a twin screw compressor and its application to performance improvement, Proc Inst Mech Eng E 209(E2) 125-136 (1995), 4A1120

Comparison between EBW and GTAW for Turmo IV C compressor blade repairs, J Eng Gas Turbines Power 117(3) 545-553 (Jul 1995), 5A1052

Low-cost NO_x reduction retrofit for pump scavenged compressor engines, J Eng Gas Turbines Power 117(4) 804-809 (Oct 1995), 5A1066

Experimental investigation of jet fan aerodynamics using wind tunnel modeling, J Fluids Eng 118(2) 322-328 (Jun 1996), 12A1186

380Q. Rotary compressors and pumps (roots, gears, screws, etc)

Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part I: The model and perturbation analysis, J Appl Mech 62(3) 674-678 (Sep 1995), 5A837

Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part II: Numerical solution and results, J Appl Mech 62(3) 679-684 (Sep 1995), 5A838

Development of the trilateral flash cycle system - Part 3: The design of high-efficiency two-phase screw expanders, Proc Inst Mech Eng A 210(A1) 75-93 (1996), 8A1032

Lifting behavior of multi-thread screw ship unloader (Chinese), J Dalian Univ Tech 35(2) 192-197 (Apr 1995), 8A1033

Experimental and computational assessment of windage losses in rotating machinery, J Fluids Eng 118(1) 116-122 (Mar 1996), 9A1239

Flow behavior around stayvanes and guidevanes of a Francis turbine, J Fluids Eng 118(1) 110-115 (Mar 1996), 9A1240

Study for a new type internal gear pump, Int J Japan Soc Precision Eng 29(4) 351-352 (Dec 1995), 9T1241

380R. Propellers and helicopter rotors

Unstructured adaptive mesh computations of rotorcraft high-speed impulsive noise, J Aircraft 32(4) 754-760 (Aug 1995), 1A291

Critical considerations for helicopters during runway takeoffs, J Aircraft 32(4) 773-781 (Aug 1995), 1A920

Aeroelastic analysis of a composite bearingless rotor in forward flight using an improved warping model, J Am Helicopter Soc 40(3) 80-91 (Jul 1995), 1A1131

Computation of helicopter rotor acoustics in forward flight, J Am Helicopter Soc 40(3) 66-72 (Jul 1995), 1A1132

Model of the unsteady aerodynamics of a hovering helicopter rotor that includes variations of the wake

geometry, J Am Helicopter Soc 40(3) 6-16 (Jul 1995), 1A1133
New model of rotor dynamics during pitch and roll of a hovering helicopter, J Am Helicopter Soc 40(3) 17-28 (Jul 1995), 1A1134
Performance based optimization of high speed prop-rotors, J Am Helicopter Soc 40(3) 92-100 (Jul 1995), 1A1135
Reduction of tiltrotor download, J Am Helicopter Soc 40(3) 42-51 (Jul 1995), 1A1136
Rotor free-wake modeling using a pseudo-implicit technique including comparisons with experimental data, J Am Helicopter Soc 40(3) 29-41 (Jul 1995), 1A1137
Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, J Sound Vib 184(5) 871-885 (Aug 1995), 1A1138
Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, J Sound Vib 184(5) 887-906 (Aug 1995), 1A1139
Wake of a small-scale rotor in forward flight using flow visualization, J Am Helicopter Soc 40(3) 52-65 (Jul 1995), 1A1140
Acoustics of a counter-rotating shrouded propfan: Prediction and data, J Aircraft 32(5) 993-1000 (Oct 1995), 2A208
Rotor aerodynamic loads computation using a constant vorticity contour free wake model, J Aircraft 32(5) 911-920 (Oct 1995), 2A1028
Aerodynamics and acoustics of rotor blade-vortex interactions, J Aircraft 32(5) 970-977 (Oct 1995), 2A1046
Decomposition-based optimization procedure for high-speed prop-rotors using composite tailoring, J Aircraft 32(5) 1026-1033 (Oct 1995), 2A1047
Effect of blade-tip planform on shock wave of advancing helicopter blade, J Aircraft 32(5) 955-961 (Oct 1995), 2A1048
Evaluation of blockage interference on propellers in a perforated-wall wind tunnel, J Aircraft 32(5) 1079-1087 (Oct 1995), 2A1049
Oscillatory behavior of helicopter rotor airloads in the blade stall regime, J Aircraft 32(5) 1148-1149 (Oct 1995), 2T1050
Hydrodynamic Propulsion and Its Optimization: Analytic Theory - Fluid Mechanics and Its Applications Series, Vol 27 (Kluwer, Netherlands, 1995) 4R24
Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, J Eng Gas Turbines Power 117(4) 767-776 (Oct 1995), 5A157
Modeling fluid inertia forces of short journal bearings for rotordynamic applications, J Vib Acoust 117(4) 462-469 (Oct 1995), 5A160
Accuracy of a propeller model in inviscid flow, J Aircraft 32(6) 1312-1321 (Dec 1995), 5A1067
Aeroelastic optimization of a helicopter rotor with composite coupling, J Aircraft 32(6) 1326-1334 (Dec 1995), 5A1068
Rotor free-wake modeling using a pseudoimplicit relaxation algorithm, J Aircraft 32(6) 1276-1285 (Dec 1995), 5A1069
Sizing methodology for reaction-driven, stopped-rotor vertical takeoff and landing concepts, J Aircraft 32(6) 1367-1374 (Dec 1995), 5A1070
Modeling and control of HSFDs for active control of rotor-bearing systems, J Eng Gas Turbines Power 117(4) 757-766 (Oct 1995), 5A1285
Analytical and experimental investigation of the effect of mast-bending coupling on pylon stability, J Am Helicopter Soc 40(4) 90-100 (Oct 1995), 6A1034
Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, J Am Helicopter Soc 40(4) 3-17 (Oct 1995), 6A1035
Correlation of 2GCHAS analysis with experimental data, J Am Helicopter Soc 40(4) 18-33 (Oct 1995), 6A1036
Damping prediction for a stalled rotor in flap-lag with experimental correlation, J Am Helicopter Soc 40(4) 79-89 (Oct 1995), 6A1037
Influence of a tension load on laminates under torsion, J Am Helicopter Soc 40(4) 71-78 (Oct 1995), 6A1038
Numerical analysis of sweep effects in shrouded propfan rotors, J Propulsion Power 12(1) 139-145 (Feb 1995), 6A1039
Prediction of tail rotor thrust and yaw control effectiveness, J Am Helicopter Soc 40(4) 34-43 (Oct 1995), 6A1040
Simulation of the dynamics of helicopter slug load systems, J Am Helicopter Soc 40(4) 44-61 (Oct 1995), 6A1041
Time-marching Euler analysis of ducted-propellers, J Propulsion Power 12(1) 134-138 (Feb 1995), 6A1042
Natural frequencies of rotating composite beams with tip sweep, J Am Helicopter Soc 41(1) 29-36 (Jan 1996), 7A184
Effects of ingested atmospheric turbulence on measured tail rotor acoustics, J Am Helicopter Soc 41(1) 77-90 (Jan 1996), 7A313
Evaluation of a Navier-Stokes analysis method for hover performance prediction, J Am Helicopter Soc 41(1) 7-17 (Jan 1996), 7A982
Flight evaluation of the new handling qualities criteria using the BO 105, J Am Helicopter Soc 41(1) 67-76 (Jan 1996), 7A983
Aerodynamic interaction study of the propeller-wing under different flow configurations, J Aircraft 33(1) 46-53 (Feb 1996), 7A1178
Aeroelastic optimization of an advanced geometry helicopter rotor, J Am Helicopter Soc 41(1) 18-28 (Jan 1996), 7A1179
Analytic V speeds from linearized propeller polar, J Aircraft 33(1) 233-235 (Feb 1996), 7T1180
Blade flap motion and lower-to-upper rotor blade tips clearances of coaxial helicopters, J Am Helicopter Soc 41(1) 37-51 (Jan 1996), 7A1181
Helicopter flight data feature extraction or component load monitoring, J Aircraft 33(1) 37-45 (Feb 1996), 7A1182
Helicopter rotor blade computation in unsteady flows using moving overset grids, J Aircraft 33(1) 54-60 (Feb 1996), 7A1183
Modeling of flexible rotor blades for helicopter flight dynamics applications, J Am Helicopter Soc 41(1) 52-66 (Jan 1996), 7A1184
Focusing of helicopter BVI noise, J Sound Vib 190(3) 477-494 (Feb 1996), 8A243
Simulation and analysis of V-22 tiltrotor aircraft forward-flight flowfield, J Aircraft 33(2) 369-376 (Apr 1996), 9A1220
Aeroelastic optimization of a helicopter rotor with two-cell composite blades, AIAA J 34(4) 835-841 (Apr 1996), 9A1242
Control issues for rigid-in-plane helicopter rotors, J Aircraft 33(2) 311-315 (Apr 1996), 9A1243
Measurements and visualization in the flowfield behind a model propeller, J Aircraft 33(2) 407-413 (Apr 1996), 9A1244
Study of noise on a small-scale hovering tilt rotor, J Am Helicopter Soc 41(2) 27-36 (Apr 1996), 10A341
Compressible potential flow around a helicopter rotor in arbitrary motion, Comput Mech 17(5) 318-325 (Mar 1996), 10A1103
Aerodynamic and acoustic calculations of transonic nonlifting hovering rotors, J Am Helicopter Soc 41(2) 17-26 (Apr 1996), 10A1217
Consistent approach for modeling the aerodynamics of self-generated rotor blade-vortex interactions, J Am Helicopter Soc 41(2) 74-84 (Apr 1996), 10A1218
Helicopter Flight Dynamics: The Theory and Application of Flying Qualities and Simulation Modeling (AIAA, MD, 1995) 11N30
Advanced propeller performance calculation by a lifting surface method, J Propulsion Power 12(3) 477-485 (Jun 1996), 11A1067
Examination of vortex deformation during blade-vortex interaction, AIAA J 34(6) 1188-1194 (Jun 1996), 11A1068
Role of secondary vorticity in parallel blade-vortex interactions, AIAA J 34(6) 1195-1202 (Jun 1996), 11A1069

380T. Other machinery

Sizing of an aircraft fuel pump, J Fluids Eng 117(2) 298-302 (Jun 1995), 1A1141
Effects of variational particle restitution characteristics on turbomachinery erosion, J Eng Gas Turbines Power 117(3) 432-440 (Jul 1995), 5A227
Fault features of large rotating machinery and diagnosis using sensor fusion, J Sound Vib 188(2) 227-242 (Nov 1995), 6A705
Quasi-periodic response and stability analysis for a nonlinear Jeffcott rotor, J Sound Vib 190(2) 239-253 (Feb 1996), 7A207

380Y. Computational techniques

Turbulent flow in an intake-manifold, Forschung Ingenieur 61(7-8) 195-200 (Aug 1995), 1A1082
Rotor free-wake modeling using a pseudo-implicit technique including comparisons with experimental data, J Am Helicopter Soc 40(3) 29-41 (Jul 1995), 1A1137
Numerical studies on effect of check valve performance on pressure surges during pump trip in pumping systems with air entrainment, Int J Numer Methods Fluids 21(4) 337-349 (Aug 1995), 1A1142
Numerical analysis of the flow field through a turbine stage with bucket tip clearance, JSME Int J Ser B 38(4) 593-599 (Nov 1995), 4A1115
Application of a strain gauge technique to the measurement of the power characteristics of five impellers, Exp Fluids 20(1) 56-58 (Nov 1995), 5A1042
Rotor free-wake modeling using a pseudoimplicit relaxation algorithm, J Aircraft 32(6) 1276-1285 (Dec 1995), 5A1069
Asymptotic analysis of mixing loss, J Turbomachinery 117(3) 367-374 (Jul 1995), 5A1071
Diesel electro-injector: A numerical simulation code, J Eng Gas Turbines Power 117(4) 792-798 (Oct 1995), 5A1072
Euler solutions for transonic oscillating cascade flows using dynamic triangular meshes, J Turbomachinery 117(3) 393-400 (Jul 1995), 5A1073
Numerical simulation of tip clearance effects in turbomachinery, J Turbomachinery 117(3) 348-359 (Jul 1995), 5A1074
Reduced order model of unsteady flows in turbomachinery, J Turbomachinery 117(3) 375-383 (Jul 1995), 5A1075
Computational fluid dynamics applied to internal gas-turbine blade cooling: A review, Int J Heat Fluid Flow 16(6) 454-470 (Dec 1995), 6A1100
Helicopter rotor blade computation in unsteady flows using moving overset grids, J Aircraft 33(1) 54-60 (Feb 1996), 7A1183
Design method for stator cascades with stream surface of revolution using natural coordinates, Inverse Prob Eng 2(2) 119-139 (1995), 8A958
Iterative use of a time-marching code for designing turbomachine blade rows, Comput Fluids 25(2) 197-216 (Feb 1996), 8A1030
Numerical simulations of unsteady transonic flow in turbomachines, J Propulsion Power 12(2) 426-429 (Apr 1996), 8A1034
Numerical calculation of 2D, unsteady flow in centrifugal pumps: Impeller and volute interaction, Int J Numer Methods Fluids 22(6) 467-481 (Mar 1996), 9A1235
Evaluation of an Euler code with non-reflecting boundary conditions for the analysis of 3D flow in compressors, Int J Turbo Jet Engines 12(4) 283-295 (1995), 9A1245
Numerical prediction of periodic vortex shedding in subsonic and transonic turbine cascade flows, Int J Numer Methods Fluids 22(9) 881-897 (May 1996), 10A1216
Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, Int J Heat Fluid Flow 17(2) 155-166 (Apr 1996), 11A1070
Computational modeling of 3D endwall flow through a turbine rotor cascade with strong secondary flows, J Turbomachinery 118(2) 250-261 (Apr 1996), 11A1071
Computational study of viscous effects on lobed mixer flow features and performance, J Propulsion Power 12(3) 449-456 (Jun 1996), 11A1072
Flow analyses in a single-stage propulsion pump, J Turbomachinery 118(2) 240-249 (Apr 1996), 11A1073
Numerical analysis of 3D unsteady hot streak migration and shock interaction in a turbine stage, J Turbomachinery 118(2) 268-277 (Apr 1996), 11A1074
Fluid Dynamics and Heat Transfer of Turbomachinery (Wiley, New York, 1996) 12R38
Finite-element model of the cyclic aerodynamic loading of a turbine rotor due to an upstream stator, Int J Comput Fluid Dyn 6(4) 291-306 (1996), 12A1181
Turbulent flow simulation of a runner for Francis hydraulic turbines using pseudo-compressibility, J Fluids Eng 118(2) 285-291 (Jun 1996), 12A1183
Analysis of helicopter blade vortex structure by laser velocimetry, Exp Fluids 21(1) 33-42 (May 1996), 12A1184
Three-dimensional flow field measurements using LDV in the exit region of a radial inflow turbine, Exp Fluids 21(1) 1-10 (May 1996), 12A1185
Advanced methods for producing ultradispersed particles in high-speed flows, J Machinery Manuf Reliab 1 79-83 (1996), 12A1187

380Z. Experimental techniques

Probe interference on flow measurements in propeller near slipstream, J Aircraft 32(4) 887-888 (Aug 1995), 1T1143
Simplified approach for control of rotating stall - Part 2: Experimental results, J Propulsion Power 11(6) 1210-1223 (Dec 1995), 4A1121
Measurement and analysis of static pressure field in a torque converter turbine, J Fluids Eng 117(3) 473-478 (Sep 1995), 5A1041
Experimental investigation of the flow through an axial-flow pump, J Fluids Eng 117(3) 485-490 (Sep 1995), 5A1050
Development of fast response aerodynamic probes for flow measurements in turbomachinery, J Turbomachinery 117(4) 625-634 (Oct 1995), 5A1076
Fast-response probes - Part 1: Technology, calibration, and application to turbomachinery, J Turbomachinery 117(4) 611-617 (Oct 1995), 5A1077
Fast-response probes - Part 2: Aerodynamic probe design studies, J Turbomachinery 117(4) 618-624 (Oct 1995), 5A1078
Fiber optic probe for gas total temperature measurement in turbomachinery, J Turbomachinery 117(4) 635-641 (Oct 1995), 5A1079
Heat transfer measurements in an annular cascade of transonic gas turbine blades using the transient liquid crystal technique, J Turbomachinery 117(3) 425-431 (Jul 1995), 5A1080
Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, J Turbomachinery 117(3) 432-439 (Jul 1995), 5A1081
Improved aspirating probe for total-temperature and total-pressure measurements in compressor flows, J Turbomachinery 117(4) 642-649 (Oct 1995), 5A1082
Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part I: Within holes and on the back surface, J Turbomachinery 117(3) 440-450 (Jul 1995), 5A1158
Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part II: On the exposed surface, J Turbomachinery 117(3) 451-460 (Jul 1995), 5A1159
Helicopter flight data feature extraction or component load monitoring, J Aircraft 33(1) 37-45 (Feb 1996), 7A1182
Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, J Energy Resources Tech 118(1) 29-35 (Mar 1996), 8A1035
Three-dimensional LDA measurements of the flow field inside an axial gas turbine rotor, Int J Turbo Jet Engines 12(4) 297-306 (1995), 9A1246
Design and test of a small, high pressure ratio radial turbine, J Turbomachinery 118(2) 362-370 (Apr 1996), 11A1039
Experimental study of TPU turbines of some domestic liquid-propellant engines, Russian Aeronaut 38(3) 89-94 (1995), 11A1053
Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, J Turbomachinery 118(2) 285-290 (Apr 1996), 11A1159
Experimental investigation of jet fan aerodynamics using wind tunnel modeling, J Fluids Eng 118(2) 322-328 (Jun 1996), 12A1186

382. LUBRICATION

382A. General theory

Interface conditions for a thin film flow past a porous medium, SIAM J Math Anal 26(5) 1113-1129 (Sep 1995), 1A1360
Transient analysis of squeeze-film dampers with oil hole feed, Trib Trans 38(4) 837-844 (Oct 1995), 2A1051
Analytical approach for the determination of the dynamic coefficients of hybrid bearings, Wear 188(1-2) 66-76 (Sep 1995), 3A1000
Lubrication theory for fluids with microstructure, Int J Eng Sci 33(15) 2297-2308 (Dec 1995), 4A1122
Transient response of a two-lobe journal bearing lubricated with non-Newtonian lubricant, Trib Int 28(4) 233-239 (Jun 1995), 4T1123
Prediction of film thickness in an elastohydrodynamic point contact lubricated with a viscosity index improved base oil, Proc Inst Mech Eng J: Eng Trib 209(J4) 235-242 (1995), 4T1125
Design optimization of the taper-flat slider positioned by a rotary actuator, J Trib 117(4) 588-593 (Oct 1995), 5A824
Axial oil film rupture in high speed bearings due to the effect of the centrifugal force, J Trib 117(3) 394-398 (Jul 1995), 5A1083
Squeeze film characteristics between parallel circular plates containing a single central air bubble in the inertial flow regime, J Trib 117(3) 513-518 (Jul 1995), 5T1084
Stability of rough journal bearings using nonlinear transient method, J Trib 117(4) 691-695 (Oct 1995), 5A1085
Transient response solution applying ADI scheme to Boltzmann flow-modified Reynolds equation averaged with respect to surface roughness, J Trib 117(3) 430-436 (Jul 1995), 5T1086
High performance journal bearing with controlled elastic deflection, J Trib 117(4) 702-708 (Oct 1995), 5A1099
Transient thermohydrodynamic analysis including mass conserving cavitation for dynamically loaded journal bearings, J Trib 117(3) 369-378 (Jul 1995), 5A1105
Complex model for lightly loaded bearings, Trib Trans 39(1) 215-219 (Jan 1996), 6T1043
Prediction of hydrodynamic thrust bearing performance using the modified Trefftz method, Trib Trans 39(1) 112-120 (Jan 1996), 6A1046
Multilevel solution for thermal elastohydrodynamic lubrication of rolling-sliding circular contacts, Trib Int 28(8) 541-552 (Dec 1995), 6T1049
Contact Mechanics (Plenum, New York, 1995) 7N21
Novel variable impedance hydrodynamic oil-film bearing - Part I: Theoretical modeling, Proc Inst Mech Eng J: Eng Trib 210(J1) 55-63 (1996), 7A1185
Tribology Handbook, Second Edition (Butterworth, UK, 1995) 8N30
Lubrication of strip rolling in the low-speed mixed regime, Trib Trans 39(2) 407-415 (Apr 1996), 8A1039

Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, J Trib 118(2) 423-430 (Apr 1996), 10A1219
Transient EHD connecting rod analysis: Full dynamic versus quasi-static deformation, J Trib 118(2) 349-355 (Apr 1996), 10A1220
Accuracy of the isoviscous solution of the Reynolds equation in mechanical seals, Proc Inst Mech Eng J: Eng Trib 210(J2) 153-156 (1996), 11A822
Thrust cone lubrication - Part 1: Elastohydrodynamic analysis of conical rims, Proc Inst Mech Eng J: Eng Trib 210(J2) 85-96 (1996), 11T1078
Power law fluid model incorporated into elastohydrodynamic lubrication theory of line contact, Trib Int 29(5) 405-413 (Aug 1996), 12T1192
Time-dependent TEHL solution to centrally supported tilting pad bearings subjected to harmonic vibration, Trib Int 29(5) 433-443 (Aug 1996), 12A1194

382B. Boundary lubrication

Problems of boundary lubrication, Trib Int 28(1) 51-54 (Feb 1995), 1T1144
Transient analysis of squeeze-film dampers with oil hole feed, Trib Trans 38(4) 837-844 (Oct 1995), 2A1051
Metallic sliding friction under boundary lubricated conditions: Investigation of the influence of lubricant at the start of sliding, Wear 190(2) 197-203 (Dec 1995), 5A776
Empirical prediction of the shear layer thickness in lubricating films, J Trib 117(3) 444-449 (Jul 1995), 5A1087
Exact solutions of Reynolds equations, J Trib 117(3) 560-562 (Jul 1995), 5T1088
Boundary film formation by lubricant base fluids, Trib Trans 39(2) 448-454 (Apr 1996), 8T1036
Mechanism of pressure variation at the leading edge of a bearing pad, Proc Inst Mech Eng J: Eng Trib 210(J2) 125-133 (1996), 11T1075
Thermal activation in boundary lubricated friction, Wear 193(2) 218-225 (May 1996), 12A896
Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, Wear 194(1-2) 174-177 (Jun 1996), 12A930
Micromechanics and electrical conductivity of point contacts in boundary lubrication, Trib Int 29(5) 365-371 (Aug 1996), 12T1188

382C. Hydrodynamic and hydrostatic lubrication

Model for the effect of roughness on the load capacity of journal bearings, Quart Appl Math 53(3) 563-573 (Sep 1995), 1A944
Dynamic analysis of a thrust bearing-effect of misalignment and load, Proc Inst Mech Eng J: Eng Trib 209(J3) 189-194 (1995), 1T1145
Turbulent-flow hydrostatic bearings: Analysis and experimental results, Int J Mech Sci 37(8) 815-829 (Aug 1995), 1A1146
Lubrication of rollers by power law fluids considering consistency-variation with pressure and temperature, Acta Mech 111(3-4) 223-239 (1995), 2A1052
Rolling element bearing contact geometry analysis, Trib Trans 38(4) 879-882 (Oct 1995), 2A1053
Thermohydrodynamic analysis of fluid film bearings for cryogenic applications, J Propulsion Power 11(5) 964-972 (Oct 1995), 2A1054
Analysis of a short squeeze-film damper operating with electrorheological fluids, Trib Trans 38(4) 857-862 (Oct 1995), 2A1059
New Method for measuring the film thickness of mixed lubrication in line contacts, Trib Trans 38(4) 869-874 (Oct 1995), 2A1062
Steady load-carrying capacity of recessed hydrodynamic bearings, Proc Inst Mech Eng J: Eng Trib 209(J4) 255-262 (1995), 4T1124
Performance of powder-lubricated journal bearings with MoS_2 powder: Experimental study of thermal phenomena, J Trib 117(3) 506-512 (Jul 1995), 5T793
Squeeze film characteristics between parallel circular plates containing a single central air bubble in the inertial flow regime, J Trib 117(3) 513-518 (Jul 1995), 5T1084
Clearance shape evolution of a steadily loaded hydrodynamic journal bearing, J Friction Wear 16(1) 49-52 (1995), 5A1089
Dimensionless characteristics of lubricating film in plain bearings design taking into account shaft deviation: Determination, approximation, and limits of applicability, J Friction Wear 16(1) 5-17 (1995), 5A1090
Experiment on mixed lubrication of hydrostatic thrust bearings for hydraulic equipment, J Trib 117(3) 399-402 (Jul 1995), 5A1091
Inertia effects on film rupture in hydrodynamic lubrication, J Trib 117(4) 685-690 (Oct 1995), 5A1092
Influence of elastic deformation of the roll and the sheet in a hydrodynamically lubricated cold rolling process, J Trib 117(3) 468-475 (Jul 1995), 5A1093
Method of friction torque measurement for a hydrodynamic thrust bearing, J Trib 117(4) 674-678 (Oct 1995), 5A1094
Misalignment effect on the static and dynamic characteristics of hydrodynamic journal bearings, J Trib 117(4) 717-723 (Oct 1995), 5A1095
Model-based investigation of friction during start-up of hydrodynamic journal bearings, J Trib 117(4) 667-673 (Oct 1995), 5A1096
Measurement of oil film journal bearing damping coefficients: An extension of the selected orbit technique, J Trib 117(4) 696-701 (Oct 1995), 5A1108
Calculation of the characteristics of a bearing under steady and transient conditions (French), European J Mech Eng 40(4) 221-226 (1995), 6A1044
Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, JSME Int J Ser C 38(4) 783-789 (Dec 1995), 6A1045
Prediction of hydrodynamic thrust bearing performance using the modified Trefftz method, Trib Trans 39(1) 112-120 (Jan 1996), 6A1046
Static characteristics of high-speed slider bearings lubricated with non-Newtonian fluids: In the case of infinitely long bearings, JSME Int J Ser C 38(4) 765-771 (Dec 1995), 6A1047
Two-level multi-point approximation method for optimum design of complicated structures, Chinese J Aeronaut 8(1) 9-16 (Feb 1995), 6A1048
Novel variable impedance hydrodynamic oil-film bearing - Part 1: Theoretical modeling, Proc Inst Mech Eng J: Eng Trib 210(J1) 55-63 (1996), 7A1185
Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, Proc Inst Mech Eng J: Eng Trib 210(J1) 65-74 (1996), 7T1186
Pressure and flow characteristics in a shallow hydrostatic pocket with rounded pocket-land joints, Trib Int 29(1) 69-76 (Feb 1996), 8T818
Study of cross-width variations in the 2D foil bearing problem, J Trib 118(2) 407-414 (Apr 1996), 10A997
Investigation into the effects of orifice size, offset and overclamp ratio on the lubrication of slipper bearings, Trib Int 29(4) 299-305 (Jun 1996), 10T1012
Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, J Trib 118(2) 266-275 (Apr 1996), 10A1020
Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, J Trib 118(2) 423-430 (Apr 1996), 10A1219
Dynamic characteristics of hard disk drive spindle motors: Comparison between ball bearings and hydrodynamic bearings, J Trib 118(2) 402-406 (Apr 1996), 10A1221
Dynamic thermal state in a hydrodynamic bearing with a whirling journal using CFD techniques, J Trib 118(2) 356-363 (Apr 1996), 10A1222
Hydrodynamic lubrication of journal bearings including micropolar lubricants and 3D irregularities, Wear 192(1-2) 21-28 (Mar 1996), 10A1223
Application of short bearing theory to analyze the effect of variable permeability on steady state performance of turbulent hydrodynamic porous journal bearings, Indian J Eng Mat Sci 3(2) 57-62 (Apr 1996), 11A819
Stability of a rigid rotor in turbulent hydrodynamic worn journal bearings, Wear 193(1) 25-30 (Apr 1996), 11A1076
Cavitation in dynamically loaded journal bearings using mobility method, Wear 193(2) 155-162 (May 1996), 12A1189
Study on sliding accuracy characteristics of an externally pressurized gas-lubricated guide way: Fundamental sliding accuracy characteristics, JSME Int J Ser C 39(2) 371-377 (Jun 1996), 12A1190
Flow structure in a flooded ball bearing, Exp Fluids 21(2) 71-79 (Jun 1996), 12T1197

382D. Elastohydrodynamic lubrication

Application of transient elastohydrodynamic lubrication analysis for gear transmissions, Trib Trans 38(4) 905-913 (Oct 1995), 2A1055
Deterministic model for line-contact partial elastohydrodynamic lubrication, Trib Int 28(2) 75-84 (Mar 1995), 2T1056
Mapping shear stress in elastohydrodynamic contacts, Trib Trans 38(4) 932-940 (Oct 1995), 2T1057
Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, Trib Trans 38(4) 769-780 (Oct 1995), 2T1058
Machining rate of hydrodynamic polishing process, Wear 188(1-2) 77-87 (Sep 1995), 3A1001
Prediction of film thickness in an elastohydrodynamic point contact lubricated with a viscosity index improved base oil, Proc Inst Mech Eng J: Eng Trib 209(J4) 235-242 (1995), 4T1125
Simulated non-Newtonian lubricant behavior under extreme conditions, Proc Inst Mech Eng J: Eng Trib 209(J4) 243-254 (1995), 4A1126
EHD analysis, including structural inertia effects and a mass-conserving cavitation model, J Trib 117(3) 540-547 (Jul 1995), 5A1097
Elastohydrodynamic and micro-elastohydrodynamic lubrication, Wear 190(2) 125-138 (Dec 1995), 5A1098
High performance journal bearing with controlled elastic deflection, J Trib 117(4) 702-708 (Oct 1995), 5A1099
Non-Newtonian TEHL analysis of tilting-pad bearings subjected to inlet pressure build-up, J Trib 117(3) 461-467 (Jul 1995), 5A1100
Thermal non-Newtonian EHL analysis of rib-roller end contact in tapered roller bearings, J Trib 117(4) 646-654 (Oct 1995), 5A1101
Model of scuffing based on the vulnerability of an elastohydrodynamic oil film to chemical degradation catalyzed by the contacting surfaces, Trib Letters 1(4) 349-365 (Dec 1995), 6A823
Multilevel solution for thermal elastohydrodynamic lubrication of rolling-sliding circular contacts, Trib Int 28(8) 541-552 (Dec 1995), 6T1049
Numerical computation of free boundary problems in elastohydrodynamic lubrication, Appl Math Model 20(2) 104-113 (Feb 1996), 7A1187
Modeling of dynamic friction in lubricated line contacts for precise motion control, Trib Trans 39(2) 476-482 (Apr 1996), 8A1037
Thermo-elasto-hydrodynamic (TEHD) lubrication, Trib Int 29(1) 1-9 (Feb 1996), 8A1038
Existence of solutions for elastohydrodynamic piezoviscous lubrication problems with a new model of cavitation, European J Appl Math 7(1) 63-73 (Feb 1996), 8A1041
Transient EHD connecting rod analysis: Full dynamic versus quasi-static deformation, J Trib 118(2) 349-355 (Apr 1996), 10A1220
EHD inlet zone analysis incorporating the second Newtonian, J Trib 118(2) 341-343 (Apr 1996), 10A1224
Elastohydrodynamic model of the rotary lip seal, J Trib 118(2) 292-296 (Apr 1996), 10A1225
Non-Newtonian lubrication with the convected Maxwell model, J Trib 118(2) 344-348 (Apr 1996), 10A1226
Partial EHL analysis of rib-roller end contact in tapered roller bearings, Trib Int 29(4) 313-321 (Jun 1996), 10T1227
Thermal effects on film thickness and traction in rolling-sliding EHL line contacts: An accurate inlet zone analysis, Wear 192(1-2) 118-127 (Mar 1996), 10A1228
Role of surface tension and disjoining pressure in starved and parched lubrication, Proc Inst Mech Eng J: Eng Trib 210(J2) 113-124 (1996), 11T1077
Thrust cone lubrication - Part 1: Elastohydrodynamic analysis of conical rims, Proc Inst Mech Eng J: Eng Trib 210(J2) 85-96 (1996), 11T1078
Non-Newtonian EHL model for traction evaluation in a roller-inner ring contact in a roller bearing, Wear 195(1-2) 53-65 (Jul 1996), 12A1191
Power law fluid model incorporated into elastohydrodynamic lubrication theory of line contact, Trib Int 29(5) 405-413 (Aug 1996), 12T1192
Thin film lubrication - Part I: Study on the transition between EHL and thin film lubrication using a relative optical interference intensity technique, Wear 194(1-2) 107-115 (Jun 1996), 12A1193
Time-dependent TEHL solution to centrally supported tilting pad bearings subjected to harmonic vibration, Trib Int 29(5) 433-443 (Aug 1996), 12A1194

382E. Liquid lubricants

Non-Newtonian cavitation analysis in journal bearings, J Non-Newtonian Fluid Mech 59(1) 31-48 (Aug 1995), 1A1149
Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, Trib Trans 38(4) 769-780 (Oct 1995), 2T1058
Analysis of a short squeeze-film damper operating with electrorheological fluids, Trib Trans 38(4) 857-862 (Oct 1995), 2A1059
Turbine oil reservoir study, Trib Trans 38(4) 923-931 (Oct 1995), 2T1060
Analysis of mass transfer effects on the performance of journal bearings using micropolar lubricant, Heat and Mass Transfer Warme 30(6) 429-433 (Sep 1995), 3A1002
Description of the engry level of tribologically stressed greases, Wear 188(1-2) 138-141 (Sep 1995), 3A1003
Estimation of thermophysical properties of lubricating oils and their solutions with refrigerants: An appraisal of existing methods, Appl Thermal Eng 16(1) 51-61 (Jan 1996), 3A1013
Simulated non-Newtonian lubricant behavior under extreme conditions, Proc Inst Mech Eng J: Eng Trib 209(J4) 243-254 (1995), 4A1126
Effects of continuous addition of lubricating oil additives upon the performance and wear of a high-speed diesel engine in severe working conditions, Acta Polytech Scand Mech Eng 0(117) 8-140 (1995), 5A1102
Operating characteristics of an externally pressurized gas lubricated piston ring, J Trib 117(3) 534-539 (Jul 1995), 5A1103
Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994 (Elsevier Sci, New York, 1995) 7N24
Measurement and modeling of boundary film properties of polymeric lubricant additives, Proc Inst Mech Eng J: Eng Trib 210(J1) 1-15 (1996), 7T1188
Boundary film formation by lubricant base fluids, Trib Trans 39(2) 448-454 (Apr 1996), 8T1036
Lubrication of strip rolling in the low-speed mixed regime, Trib Trans 39(2) 407-415 (Apr 1996), 8A1039
Nonlinearity-coupled receptivity process generating a Tollmien-Schlichting wave behind a backward-facing step, Fluid Dyn Res 17(5) 225-236 (Apr 1996), 8A1040
Normal stress difference in liquid lubricants sheared under high pressure, Rheol Acta 35(1) 13-23 (Feb 1996), 9A1247
Effect of additives on friction, wear, and iron fluoride formation under perfluoropolyether fluid lubrication in vacuum and various atmospheres containing oxygen, Wear 192(1-2) 178-185 (Mar 1996), 10A985
Antiwear and extreme pressure characteristics of 2-mercaptobenzothiazole derivative as the potential lubricating oil additive, Wear 192(1-2) 74-77 (Mar 1996), 10A1229
New bifunctionalized additives for cold rolling emulsions, Wear 192(1-2) 233-236 (Mar 1996), 10A1230
New researches in additives (2): R&D toward novel lubricity additives, Japan J Trib 40(4) 277-283 (1995), 10T1231
Reconstruction of fluid Langmuir monolayers under shear forces, Trib Letters 2(1) 71-80 (Mar 1996), 10T1232
Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, Wear 192(1-2) 6-10 (Mar 1996), 10A1233
Environmental issues of additives (3): Effect of engine oil additives on emissions control equipment, Japan J Trib 40(4) 253-259 (1995), 10T1457
Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, Wear 193(1) 66-72 (Apr 1996), 11A808
Recent Snapshots and Insights into Lubricant Tribology - 1995 Int Fuels and Lubricants Meeting (SAE, Warrendale PA, 1995) 12N43
Efficient calculation of the load and coefficient of restitution of impact between two elastic bodies with a liquid lubricant, J Appl Mech 63(2) 347-352 (Jun 1996), 12A236
Additives for fluorosilicone oils at high temperature, Wear 193(2) 261-268 (May 1996), 12A1195

382F. Gas lubricants

Analysis of gas-lubricated, multileaf foil journal bearings with backing springs, J Trib 117(3) 437-443 (Jul 1995), 5A1104
Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994 (Elsevier Sci, New York, 1995) 7N24
Physical meanings of A/Q_{20} and σ/Q_{20} in molecular gas film lubrication problems, J Trib 118(2) 364-369 (Apr 1996), 10T1109
Study on sliding accuracy characteristics of an externally pressurized gas-lubricated guide way: Fundamental sliding accuracy characteristics, JSME Int J Ser C 39(2) 371-377 (Jun 1996), 12A1190

382H. Other lubricants

Analysis of a grease-lubricated roller bearing under arctic conditions, Proc Inst Mech Eng J: Eng Trib 209(J3) 213-220 (1995), 1T1147
Effect of Prolonged exposyre to 750 deg/C air on the tribological performance of PM212: Self-lubricating composite material, Trib Trans 38(4) 745-756 (Oct 1995), 2T1061
Correlation among the tribological characteristic parameters of rare earth trifluorides and their electron structures, bond parameters, and thermodynamic parameters, Wear 188(1-2) 56-60 (Sep 1995), 3A1004
Transient response of a two-lobe journal bearing lubricated with non-Newtonian lubricant, Trib Int 28(4) 233-239 (Jun 1995), 4T1123
Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, Wear 190(2) 219-225 (Dec 1995), 5A811
New researches in additives (2): R&D toward novel lubricity additives, Japan J Trib 40(4) 277-283 (1995), 10T1231
Functions of additives (8): Solid lubricants, Japan J Trib 40(4) 347-353 (1995), 10T1234
Influence of TiC, CaF_2 and MnS additives on friction and lubrication of sintered high speed steels at elevated temperature, Wear 193(1) 31-37 (Apr 1996), 11A811

Tribological properties and lubricating mechanisms of the rare earth complex as a grease additive, Wear 194(1-2) 80-85 (Jun 1996), 12A1196

382J. Thermal and thermoelastic effects

Determination of power losses in high-speed magnetic journal bearings using temperature measurements, Exp Heat Transfer 8(1) 33-56 (Mar 1995), 1A1148
Non-Newtonian TEHL analysis of tilting-pad bearings subjected to inlet pressure build-up, J Trib 117(3) 461-467 (Jul 1995), 5A1100
Transient thermohydrodynamic analysis including mass conserving cavitation for dynamically loaded journal bearings, J Trib 117(3) 369-378 (Jul 1995), 5A1105
Experimental study on the thermohydrodynamic lubrication of tilted pad thrust bearings, Japan J Trib 40(1) 1-13 (1995), 6T1050
Comparison between three turbulent models: Application to thermohydrodynamic performances of tilting-pad journal bearings, Trib Int 29(1) 11-18 (Feb 1996), 8T809
Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), J Dalian Univ Tech 35(4) 505-510 (Aug 1995), 8A817
Thermo-elasto-hydrodynamic (TEHD) lubrication, Trib Int 29(1) 1-9 (Feb 1996), 8A1038
Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, J Trib 118(2) 423-430 (Apr 1996), 10A1219
Dynamic thermal state in a hydrodynamic bearing with a whirling journal using CFD techniques, J Trib 118(2) 356-363 (Apr 1996), 10A1222
Fast method for the numerical solution of thermal-elastohydrodynamic lubrication problems, Wear 193(1) 56-65 (Apr 1996), 11A1079
Time-dependent TEHL solution to centrally supported tilting pad bearings subjected to harmonic vibration, Trib Int 29(5) 433-443 (Aug 1996), 12A1194

382K. Multiphase lubricant, cavitation, and surface tension

Non-Newtonian cavitation analysis in journal bearings, J Non-Newtonian Fluid Mech 59(1) 31-48 (Aug 1995), 1A1149
EHD analysis, including structural inertia effects and a mass-conserving cavitation model, J Trib 117(3) 540-547 (Jul 1995), 5A1097
Cavitation in normal separation of square and circular plates, J Trib 117(3) 403-410 (Jul 1995), 5A1106
Prediction of cavitation in journal bearings using a BEM, J Trib 117(3) 411-421 (Jul 1995), 5A1107
Existence of solutions for elastohydrodynamic piezoviscous lubrication problems with a new model of cavitation, European J Appl Math 7(1) 63-73 (Feb 1996), 8A1041
Non-Newtonian lubrication with the convected Maxwell model, J Trib 118(2) 344-348 (Apr 1996), 10A1226
Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995 (SIAM, Phila, PA, 1996) 12N39

382L. Lubrication systems

Measurement of transiently changing flow rates in oil hydraulic column separation, JSME Int J Ser B 39(1) 51-56 (Feb 1996), 7T1189
Estimating the mode of lubrication in standard rolling-contact bearings: Calculation of roller bearings, Russian Aeronaut 38(3) 51-55 (1995), 11A1080

382Y. Computational techniques

Empirical prediction of the shear layer thickness in lubricating films, J Trib 117(3) 444-449 (Jul 1995), 5A1087
Inertia effects on film rupture in hydrodynamic lubrication, J Trib 117(4) 685-690 (Oct 1995), 5A1092
Prediction of cavitation in journal bearings using a BEM, J Trib 117(3) 411-421 (Jul 1995), 5A1107
Moving spectral element approach to the dynamically loaded journal bearing problem, J Comput Phys 123(2) 476-494 (Feb 1996), 7A65
Numerical computation of free boundary problems in elastohydrodynamic lubrication, Appl Math Model 20(2) 104-113 (Feb 1996), 7A1187
Viscous shear effects on the squeeze-film behavior in porous circular disks, Int J Mech Sci 38(4) 373-384 (Apr 1996), 7A1190
Flow structure in a flooded ball bearing, Exp Fluids 21(2) 71-79 (Jun 1996), 12T1197

382Z. Experimental techniques

New Method for measuring the film thickness of mixed lubrication in line contacts, Trib Trans 38(4) 869-874 (Oct 1995), 2A1062
Study of lubricated impact using optical interferometry, Wear 190(2) 184-189 (Dec 1995), 5A816
Experiment on mixed lubrication of hydrostatic thrust bearings for hydraulic equipment, J Trib 117(3) 399-402 (Jul 1995), 5A1091
Method of friction torque measurement for a hydrodynamic thrust bearing, J Trib 117(4) 674-678 (Oct 1995), 5A1094
Measurement of oil film journal bearing damping coefficients: An extension of the selected orbit technique, J Trib 117(4) 696-701 (Oct 1995), 5A1108
Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, J Trib 117(3) 519-523 (Jul 1995), 5A1109
Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, J Trib 117(3) 519-523 (Jul 1995), 5A1109
Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, Proc Inst Mech Eng J: Eng Trib 210(J1) 65-74 (1996), 7T1186
Reconstruction of fluid Langmuir monolayers under shear forces, Trib Letters 2(1) 71-80 (Mar 1996), 10T1232
Thrust cone lubrication - Part 3: A test facility and preliminary measured data, Proc Inst Mech Eng J: Eng Trib 210(J2) 107-112 (1996), 11A821

384. FLOW MEASUREMENTS AND VISUALIZATION

384B. Velocity

Reinvestigation of hot-wire anemometry applicable to subsonic compressible flows using fluctuation diagrams, J Fluids Eng 117(2) 263-269 (Jun 1995), 1A1029
Measurement of vorticity in turbulent flows, Annu Rev Fluid Mech 27 469-514 (1995), 2A995
Expensive and effective five-hole probe rake, Exp Fluids 19(4) 295-296 (Aug 1995), 2A1063
Unsteady surface-velocity field measurement using particle tracking velocimetry, J Hydraul Res 33(4) 519-534 (1995), 2A1064
Temperature compensation of hot-wire anemometer with photoconductive cell, Exp Fluids 19(5) 362-365 (Sep 1995), 3A1005
Examination of the flow around a hot-wire probe using particle image velocimetry, Exp Fluids 19(6) 379-382 (Oct 1995), 4A1127
Three-dimensional particle image velocimetry for use in three-phase fluidization systems, Exp Fluids 19(6) 367-378 (Oct 1995), 4A1314
Optical processing of PIV images, J Flow Visualization Image Proc 2(2) 149-160 (1995), 5T1114
Uncertainty in calculating vorticity from 2D velocity fields using circulation and least-squares approaches, Exp Fluids 20(1) 10-20 (Nov 1995), 5A1117
X-wire response in turbulent flows of high-intensity turbulence and low mean velocities, Exp Thermal Fluid Sci 12(1) 52-56 (Jan 1996), 6A1051
Two-dimensional velocity shift caused by the use of a rotating mirror in PIV flow field measurements, Exp Fluids 20(2) 106-111 (Dec 1995), 6A1059
Measurement of instantaneous flow rates in periodically operating injection systems, Exp Fluids 20(3) 178-188 (Jan 1996), 7A1191
Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, Proc Inst Mech Eng D 210(D1) 63-70 (1996), 7A1192
Three-dimensional flow measurements in conical and straight wall centrifugal compressor vaneless diffusers, Proc Inst Mech Eng C 210(C1) 51-61 (1996), 8A1028
Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, AIAA J 34(3) 449-454 (Mar 1996), 8A1042
Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, AIAA J 34(3) 434-441 (Mar 1996), 8A1047
Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, AIAA J 34(3) 442-448 (Mar 1996), 8A1050
Long-range Schmidt-Cassegrain laser velocimeter for large wind-tunnel applications, AIAA J 34(3) 515-520 (Mar 1996), 8A1051
Effects of flow pulsation on a single-rotor turbine meter, J Fluids Eng 118(1) 198-201 (Mar 1996), 9A1248
Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, Exp Fluids 20(5) 398-400 (Mar 1996), 9A1249
Fluid Mechanics Measurements, Second Edition (Taylor & Francis, PA, 1996) 10N27
Calibration technique for a parallel-wire depth probe with conductivity compensation, Exp Fluids 20(6) 429-432 (Apr 1996), 10A1235
Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), European J Mech Eng 41(1) 11-17 (1996), 10A1236
Reconstruction of fluid motion in acoustic diffraction tomography, J Acoust Soc Am 99(5) 3029-3035 (May 1996), 10A1237

384D. Force and skin friction

Calibration of Preston tubes, AIAA J 34(1) 205-206 (Jan 1996), 6T1052
Three-component force balance for flows of millisecond duration, AIAA J 34(3) 590-595 (Mar 1996), 8A1043
Measurement of the lift force on a particle fixed to the wall in the viscous sublayer of a fully-developed turbulent boundary layer, J Fluid Mech 316 285-306 (Jun 1996), 12A1082
Yield stress measurements with the vane, J Non-Newtonian Fluid Mech 63(2-3) 235-261 (Apr 1996), 12A1198

384E. Pressure

Efficient optical pressure measurement in compressible flows: Laser-induced iodine fluorescence, Exp Fluids 19(3) 150-158 (Jul 1995), 1A1028
Differential-pressure probe for velocity measurements in swirling air flows, Exp Fluids 20(2) 134-135 (Dec 1995), 6A1053
High-speed photography study on engagement process of wet clutch, JSME Int J Ser B 39(1) 149-155 (Feb 1996), 7A1193
Step response of pressure-sensitive paints, AIAA J 34(3) 521-526 (Mar 1996), 8A1044
Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, AIAA J 34(3) 442-448 (Mar 1996), 8A1050
Fluid Mechanics Measurements, Second Edition (Taylor & Francis, PA, 1996) 10N27

384F. Density

High data density temperature measurement for quasi steady-state flows, Exp Fluids 21(1) 11-16 (May 1996), 12A1199

384G. Concentration

Temperature measurement of a curved surface using thermographic phosphors, Exp Thermal Fluid Sci 11(4) 387-394 (Nov 1995), 4A1128
Turbulent concentration determination in gas flow using multiple CCD cameras, J Flow Visualization Image Proc 2(2) 195-208 (1995), 5A1110
Measurement of an axisymmetric temperature field by speckle photography methods, Exp Fluids 20(2) 100-105 (Dec 1995), 6A1054
Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, AIAA J 34(3) 508-514 (Mar 1996), 8A1048
Long-range Schmidt-Cassegrain laser velocimeter for large wind-tunnel applications, AIAA J 34(3) 515-520 (Mar 1996), 8A1051
Simultaneous water vapor concentration and temperature measurements using 1.31-μm diode lasers, AIAA J 34(3) 483-488 (Mar 1996), 8A1053
Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, AIAA J 34(3) 500-507 (Mar 1996), 8A1057
Planar OH density and apparent temperature measurements in a supersonic combusting flow, AIAA J 34(3) 463-469 (Mar 1996), 8A1063
OH imaging in a lean burning high-pressure combustor, AIAA J 34(3) 622-624 (Mar 1996), 8T1259
High data density temperature measurement for quasi steady-state flows, Exp Fluids 21(1) 11-16 (May 1996), 12A1199

384H. Mass flow

Mass spectrometer measurements of test gas composition in a shock tunnel, AIAA J 34(1) 203-205 (Jan 1996), 6T1055
Measurement of instantaneous flow rates in periodically operating injection systems, Exp Fluids 20(3) 178-188 (Jan 1996), 7A1191
Fluid Mechanics Measurements, Second Edition (Taylor & Francis, PA, 1996) 10N27

384I. Viscosity

Effect of Taylor diffusion on the dynamic response of an on-line capillary viscometer, J Non-Newtonian Fluid Mech 62(2-3) 225-234 (Feb 1996), 8A869
Absolute falling tube viscometer, Exp Thermal Fluid Sci 12(3) 325-337 (Apr 1996), 8A1045

384J. Flow direction, vorticity

Flow Visualizaiton and Image Processing of Multiphase Flows - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N29
Capabilities of small computers as image analyzer for quantitative flow visualization, J Flow Visualization Image Proc 2(2) 187-194 (1995), 5A1116
High-speed photography study on engagement process of wet clutch, JSME Int J Ser B 39(1) 149-155 (Feb 1996), 7A1193

384L. Flow visualization

Multidimensional in-cylinder flow calculations and flow visualization in a motored engine, J Fluids Eng 117(2) 282-288 (Jun 1995), 1A1350
Experimental and Numerical Flow Visualization - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N36
Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, Exp Fluids 19(4) 264-273 (Aug 1995), 2A931
Jet-flow scavenging of a curing oven - Part I: Flow visualization, J Electron Packaging 117(3) 215-219 (Sep 1995), 3A1006
Bouyant pulsating exchange flow through a vent, J Heat Transfer 117(3) 641-648 (Aug 1995), 3A1032
Effects of Dean vortex pairs on surface heat transfer in curved channel flow, Int J Heat Mass Transfer 39(1) 27-37 (Jan 1996), 3A1060
Flow visualization using natural condensation of water vapor, AIAA J 33(11) 2234-2236 (Nov 1995), 4T1129
Turbulent-flow dye-streak technique, Exp Fluids 20(1) 38-41 (Nov 1995), 5A977
Capabilities of small computers as image analyzer for quantitative flow visualization, J Flow Visualization Image Proc 2(2) 187-194 (1995), 5A1116
Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, Int J Heat Fluid Flow 16(5) 389-397 (Oct 1995), 5A1127
Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, JSME Int J Ser C 38(4) 783-789 (Dec 1995), 6A1045
Experimental flow visualization for a large-scale ram accelerator, J Propulsion Power 12(1) 206-210 (Feb 1995), 6A1056
Flow visualization during multiple-axis motions using a wind-driven manipulator, J Aircraft 33(1) 163-170 (Feb 1996), 7A1176
Angular response properties of retroreflective screen materials used in wide-field shadowgraphy, Exp Fluids 20(3) 227-229 (Jan 1996), 7A1194
Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer, AIAA J 34(2) 299-308 (Feb 1996), 7A1195
Visualization of formaldehyde distribution above platinum plate catalyst by using LIF method, J Energy Resources Tech 118(1) 82-87 (Mar 1996), 8A1046
Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system, Exp Fluids 20(6) 472-475 (Apr 1996), 10A1108
Holographic interferometric tomography for limited data reconstruction, AIAA J 34(5) 1019-1026 (May 1996), 10A1240
Aerodynamic heating for hypersonic-flying vehicles using infrared visualization method (Japanese), J Japan Soc Precision Eng 62(5) 633-636 (May 1996), 12T1200
Digital image processing of flow visualization (Japanese), J Japan Soc Precision Eng 62(5) 623-627 (May 1996), 12T1201
Visualization and quantitative measurement of thin liquid film (Japanese), J Japan Soc Precision Eng 62(5) 628-632 (May 1996), 12T1202
Heat transfer on the base surface of 3D protruding elements, Int J Heat Mass Transfer 39(14) 2925-2935 (Sep 1996), 12A1211
Effects of geometry and flow division on flow structures in models of the distal end-to-side anastomosis, J Biomech 29(7) 855-872 (Jul 1996), 12A1472

384M. Laser and other optical techniques

Application of an in-line, stereoscopic, PIV system to 3-component velocity measurements, Exp Fluids 19(3) 214-221 (Jul 1995), 1A1150

Investigation of the performance of multilayer, neural networks applied to the analysis of PIV images, Exp Fluids 19(3) 159-166 (Jul 1995), 1T1151
Two-dimensional on-line particle imaging velocimetry, Exp Fluids 19(3) 188-193 (Jul 1995), 1A1152
Laser Anemometry - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N44
Advances and applications of laser velocimetry, J Brazilian Soc Mech Sci 17(1) 1-13 (1995), 2A1065
Beam waist-focus misalignment error estimates in laser Doppler anemometry, J Propulsion Power 11(5) 1078-1080 (Oct 1995), 2A1066
Differential laser interferometer for nanometer displacement measurements, AIAA J 33(9) 1675-1680 (Sep 1995), 2A1067
Digital-particle-image-velocimetry in a scanning light-sheet: 3D starting flow around a short cylinder, Exp Fluids 19(4) 255-263 (Aug 1995), 2A1068
Measurements in the microscopic flow with a solid-state LDA, Exp Fluids 19(4) 293-294 (Aug 1995), 2A1069
Recognition of partially overlapped particle images using the Kohonen neural network, Exp Fluids 19(4) 225-232 (Aug 1995), 2A1070
Quantitative molecular-mixing measurements using digital processing of absorption images, Exp Fluids 19(5) 319-327 (Sep 1995), 3A975
Advances and applications of laser velocimetry, J Brazilian Soc Mech Sci 17(1) 1-13 (1995), 3A1007
Analysis and quantification of a solid-state laser Doppler anemometer, AIAA J 33(10) 1880-1887 (Oct 1995), 3A1008
New tracking algorithm for particle image velocimetry, Exp Fluids 19(5) 342-347 (Sep 1995), 3A1009
Wide angle light scattering in shock-laser interaction, AIAA J 33(12) 2429-2431 (Dec 1995), 4T284
Examination of the flow around a hot-wire probe using particle image velocimetry, Exp Fluids 19(6) 379-382 (Oct 1995), 4A1127
Temperature measurement of a curved surface using thermographic phosphors, Exp Thermal Fluid Sci 11(4) 387-394 (Nov 1995), 4A1128
Fast quantitative processing of particle image velocimetry photographs by a whole-field filtering technique, Exp Fluids 19(6) 417-425 (Oct 1995), 4A1130
Hartmann wave front sensor studies of dynamic organized structure in flowfields, AIAA J 33(11) 2158-2164 (Nov 1995), 4A1131
Quantification of aero-optical phase distortion using the small-aperture beam technique, AIAA J 33(11) 2151-2157 (Nov 1995), 4A1132
Shock detection technique based on light scattering by shock, AIAA J 33(12) 2431-2433 (Dec 1995), 4T1133
Three-dimensional particle image velocimetry for use in three-phase fluidization systems, Exp Fluids 19(6) 367-378 (Oct 1995), 4A1314
Turbulent concentration determination in gas flow using multiple CCD cameras, J Flow Visualization Image Proc 2(2) 195-208 (1995), 5A1110
Correction method of erroneous vectors in PIV, J Flow Visualization Image Proc 2(2) 173-185 (1995), 5T1111
Holographic investigation of the near-nozzle structure of an effervescent atomizer-produced spray, Atomization and Sprays 5(2) 137-155 (Apr 1995), 5T1112
Multidimensional, nonhomogeneous, dense spray contributions to diffraction-based particle size distribution measurements, Atomization and Sprays 5(2) 197-211 (Apr 1995), 5A1113
Optical processing of PIV images, J Flow Visualization Image Proc 2(2) 149-160 (1995), 5T1114
Measurement of an axisymmetric temperature field by speckle photography methods, Exp Fluids 20(2) 100-105 (Dec 1995), 6A1054
Particle image velocimetry: Use of photo-thermoplastic film for photographic recording of particle images, Exp Fluids 20(2) 136-139 (Dec 1995), 6A1057
Phase-locked high-speed real-time interferometry system for large amplitude unsteady flows, Exp Fluids 20(2) 61-67 (Dec 1995), 6A1058
Two-dimensional velocity shift caused by the use of a rotating mirror in PIV flow field measurements, Exp Fluids 20(2) 106-111 (Dec 1995), 6A1059
Angular response properties of retroreflective screen materials used in wide-field shadowgraphy, Exp Fluids 20(3) 227-229 (Jan 1996), 7A1194
Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer, AIAA J 34(2) 299-308 (Feb 1996), 7A1195
Data reduction methods for flow tagging velocity measurements, Exp Fluids 20(3) 142-152 (Jan 1996), 7A1196
Evaluation of instationary flow fields using crosscorrelation in image sequences, Exp Fluids 20(3) 210-217 (Jan 1996), 7A1197
Differential interferometry for studying hypersonic flows, Exp Fluids 20(4) 273-278 (Feb 1996), 8A918
Interpretation of PIV autocorrelation measurements in complex particle-laden flows, Exp Fluids 20(4) 314-317 (Feb 1996), 8A938
Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, AIAA J 34(3) 434-441 (Mar 1996), 8A1047
Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, AIAA J 34(3) 508-514 (Mar 1996), 8A1048
Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, AIAA J 34(3) 470-477 (Mar 1996), 8A1049
Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, AIAA J 34(3) 442-448 (Mar 1996), 8A1050
Long-range Schmidt-Cassegrain laser velocimeter for large wind-tunnel applications, AIAA J 34(3) 515-520 (Mar 1996), 8A1051
Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, AIAA J 34(3) 489-493 (Mar 1996), 8A1052
Simultaneous water vapor concentration and temperature measurements using 1.31-μm diode lasers, AIAA J 34(3) 483-488 (Mar 1996), 8A1053
Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, AIAA J 34(3) 494-499 (Mar 1996), 8A1054
Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, AIAA J 34(3) 624-626 (Mar 1996), 8T1064
Adaptive phase-Doppler system and its applications including particle sizing in submicron and nanometer ranges, Exp Fluids 20(5) 328-334 (Mar 1996), 9A1250
Fluorescence velocity measurements in the interior of a hydrogen arcjet nozzle, AIAA J 34(4) 853-855 (Apr 1996), 9T1251
Data compression method for the modal analysis of spatially dense laser vibrometer measurements, J Brazilian Soc Mech Sci 18(1) 17-23 (Mar 1996), 10A242
Visualization of turbulence anisotropy by single exposure speckle photography, Exp Fluids 20(6) 476-479 (Apr 1996), 10A1183
Comparison measurements for selection of suitable photodetectors for use in Nd: YAG LDA systems, Exp Fluids 20(6) 460-465 (Apr 1996), 10A1238
Effect of astigmatism due to beam refractions on the formation of the measurement volume in LDA measurements, Exp Fluids 20(6) 466-471 (Apr 1996), 10A1239
Holographic interferometric tomography for limited data reconstruction, AIAA J 34(5) 1019-1026 (May 1996), 10A1240
Particle size distribution technique using conventional laser doppler velocimetry measurements, AIAA J 34(6) 1209-1215 (Jun 1996), 11A940
Analysis of thin film thickness determination in two-phase flow using a multifiber optical sensor, Appl Math Model 20(7) 540-548 (Jul 1996), 11A1081
Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, AIAA J 34(6) 1216-1223 (Jun 1996), 11A1082
Measurement of tip-clearance flow in a multistage, axial flow compressor, J Turbomachinery 118(2) 211-217 (Apr 1996), 11A1083
Experimentalist and the problem of turbulence in the age of supercomputers, J Fluids Eng 118(2) 233-242 (Jun 1996), 12A1203
Fluorescent behavior of ketones at high temperatures, Exp Fluids 21(2) 143-144 (Jun 1996), 12A1204
Three-dimensional particle tracking velocimetry with laser-light sheet scannings, J Fluids Eng 118(2) 352-357 (Jun 1996), 12A1205
Visualization and analysis of adsorption behavior of alcohols on aqueous alcohol solution surfaces utilizing Brewster angle videomacrography and digital image processing, Exp Fluids 21(2) 94-102 (Jun 1996), 12T1206
Optimization procedure for pulse separation in cross-correlation PIV, Exp Fluids 21(2) 87-93 (Jun 1996), 12A1208
Humidity fluctuations in the marine boundary layer measured at a coastal site with an infrared humidity sensor, Boundary-Layer Meteorol 77(3-4) 331-352 (Feb 1996), 12T1426

384Q. Wind and water tubes and tunnels

Flow quality of hypersonic wind-tunnel nozzles designed using computational fluid dynamics, J Spacecraft Rockets 32(4) 569-580 (Aug 1995), 1A1153
Effects of large blockage in wind-tunnel testing, J Aircraft 32(5) 1149-1152 (Oct 1995), 2T1071
Experimental comparison of two adaptation strategies in an adaptive-walls wind-tunnel, Exp Fluids 19(4) 274-279 (Aug 1995), 2A1072
Theoretical and experimental investigations of wall adaptation control in wind tunnel and hybrid wind tunnel testing, Exp Fluids 19(4) 233-240 (Aug 1995), 2A1073
Turbulent flow in supersonic and hypersonic nozzles, AIAA J 33(9) 1634-1640 (Sep 1995), 2A1074
Determination of starting shock velocity in supersonic wind tunnel, AIAA J 33(10) 1981-1983 (Oct 1995), 3T1010
Correlation of F/A-18 buffeting from wind-tunnel and flight tests, J Aircraft 32(6) 1351-1358 (Dec 1995), 5A229
Development of a wind tunnel test facility for yacht aerodynamic studies, J Wind Eng Indust Aerodyn 58(3) 231-258 (Dec 1995), 5A989
Simultaneous luminescence pressure and temperature measurement system for hypersonic wind tunnels, J Spacecraft Rockets 32(5) 791-794 (Oct 1995), 5A1115
Wind-tunnel studies of buildings and structures, J Aerospace Eng 9(1) 19-36 (Jan 1996), 6A1060
Automation of some operations of wind tunnel using artificial neural networks, AIAA J 34(2) 421-423 (Feb 1996), 7T1198
Experiments and analysis for a gust generator in a wind tunnel, J Aircraft 33(1) 139-148 (Feb 1996), 7A1199
Pressure sensitive paint in transonic wind-tunnel testing of the F-15, J Aircraft 33(1) 109-116 (Feb 1996), 7A1200
Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, AIAA J 34(3) 494-499 (Mar 1996), 8A1054
Calculation of all drag components for 3D bodies in wind tunnel flows: A BE-wake approach, Appl Sci Res 55(2) 119-139 (Sep 1995), 8A1055
Nonlinear dynamics of test models in wind tunnels, Eur J Mech A 15(1) 91-136 (1996), 8A1056
Hyperbolic equation method of grid generation for enclosed regions, AIAA J 34(6) 1293-1295 (Jun 1996), 11T1084
Modeling mass entrainment in a quasi-1D shock tube code, AIAA J 34(6) 1291-1293 (Jun 1996), 11T1085
Stream function coordinate Euler formulation and shocktube application, Appl Math Model 20(6) 421-428 (Jun 1996), 11A1086

384V. Other problems and techniques

Feasibility demonstration of cryogenic fluid gauging for space vehicle applications, J Propulsion Power 11(5) 980-985 (Oct 1995), 2A1075
Purification of silicone oils for fluid experiments, Exp Fluids 19(5) 359-361 (Sep 1995), 3T1011
Improving the accuracy of the capacitance method for void fraction measurement, Exp Thermal Fluid Sci 11(4) 321-326 (Nov 1995), 4A1019
Wavelet analysis for the plane turbulent jet: Analysis of large eddy structure, JSME Int J Ser B 38(4) 525-531 (Nov 1995), 4T1048
Fast quantitative processing of particle image velocimetry photographs by a whole-field filtering technique, Exp Fluids 19(6) 417-425 (Oct 1995), 4A1130
Correction method of erroneous vectors in PIV, J Flow Visualization Image Proc 2(2) 173-185 (1995), 5T1111
Capabilities of small computers as image analyzer for quantitative flow visualization, J Flow Visualization Image Proc 2(2) 187-194 (1995), 5A1116
Uncertainty in calculating vorticity from 2D velocity fields using circulation and least-squares approaches, Exp Fluids 20(1) 10-20 (Nov 1995), 5A1117
X-wire response in turbulent flows of high-intensity turbulence and low mean velocities, Exp Thermal Fluid Sci 12(1) 52-56 (Jan 1996), 6A1051
Data reduction methods for flow tagging velocity measurements, Exp Fluids 20(3) 142-152 (Jan 1996), 7A1196
Evaluation of instationary flow fields using crosscorrelation in image sequences, Exp Fluids 20(3) 210-217 (Jan 1996), 7A1197
Step response of pressure-sensitive paints, AIAA J 34(3) 521-526 (Mar 1996), 8A1044
Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, AIAA J 34(3) 500-507 (Mar 1996), 8A1057
Initial experimental study of pulsed electron beam fluorescence, AIAA J 34(3) 478-482 (Mar 1996), 8A1058
Effects of flow pulsation on a single-rotor turbine meter, J Fluids Eng 118(1) 198-201 (Mar 1996), 9A1248
Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, Exp Fluids 20(5) 398-400 (Mar 1996), 9A1249
Elements of an approach to the assessment of random uncertainty in transient measurements, J Fluids Eng 118(1) 90-95 (Mar 1996), 9A1252
Calibration technique for a parallel-wire depth probe with conductivity compensation, Exp Fluids 20(6) 429-432 (Apr 1996), 10A1235
Comparison measurements for selection of suitable photodetectors for use in Nd: YAG LDA systems, Exp Fluids 20(6) 460-465 (Apr 1996), 10A1238
Effect of astigmatism due to beam refractions on the formation of the measurement volume in LDA measurements, Exp Fluids 20(6) 466-471 (Apr 1996), 10A1239
Particle size distribution technique using conventional laser doppler velocimetry measurements, AIAA J 34(6) 1209-1215 (Jun 1996), 11A940
Research on ultra-precise level detection method of storage tanks (Chinese), J Dalian Univ Tech 36(3) 339-342 (May 1996), 11A1087
Asymmetric systematic uncertainties in determination of experimental uncertainty, AIAA J 34(7) 1458-1463 (Jul 1996), 12A343
Review of electrical impedance techniques for the measurement of multiphase flows, J Fluids Eng 118(2) 391-399 (Jun 1996), 12A1095
Experimentalist and the problem of turbulence in the age of supercomputers, J Fluids Eng 118(2) 233-242 (Jun 1996), 12A1203
Fluorescent behavior of ketones at high temperatures, Exp Fluids 21(2) 143-144 (Jun 1996), 12A1204
Three-dimensional particle tracking velocimetry with laser-light sheet scannings, J Fluids Eng 118(2) 352-357 (Jun 1996), 12A1205
Numerical inversion of axisymmetric interferograms, Exp Heat Transfer 9(1) 49-60 (Mar 1996), 12A1207
Optimization procedure for pulse separation in cross-correlation PIV, Exp Fluids 21(2) 87-93 (Jun 1996), 12A1208

VI. HEAT TRANSFER

400. THERMODYNAMICS

400B. Thermodynamics

Optimal allocation of a heat-exchanger inventory in heat driven refrigerators, Int J Heat Mass Transfer 38(16) 2997-3004 (Nov 1995), 1A1154
Thermodynamic analysis of the influence of electric fields on frost formation, J Thermophys Heat Transfer 9(3) 562-564 (Sep 1995), 1T1155
Conservation Laws in Variational Thermo-Hydrodynamics (Kluwer, Norwell MA, 1994) 2R49
Engineering Thermodynamics (Prentice-Hall, Englewood Cliffs NJ, 1996) 2R51
Exergy analysis of radial inflow expansion turbines for power recovery, Heat Recovery Syst CHP 15(8) 775-785 (Nov 1995), 2A1076
Exergy carry-over index for a utility system, Heat Recovery Syst CHP 15(8) 797-801 (Nov 1995), 2A1077
Mixed cycle for converting heat to mechanical work, Heat Recovery Syst CHP 15(8) 749-753 (Nov 1995), 2A1078
Theoretical and experimental investigation of a constant-pressure adsorption process, Int J Heat Mass Transfer 38(18) 3349-3358 (Dec 1995), 2A1079
Two-temperature Saha equation: A misunderstood problem, J Thermophys Heat Transfer 9(4) 803-804 (Dec 1995), 3T1012
Advanced Thermodynamics for Engineers (McGraw-Hill, New York, 1995) 4R30
Fundamentals of Engineering Thermodynamics, Third Edition (Wiley, New York, 1995) 4R31
Nomenclature for exergy analysis, Proc Inst Mech Eng A 209(A4) 275-280 (1995), 4A1134
Remarks on the structure of evolution equations, Appl Math Mech 16(8) 747-757 (Aug 1995), 4A1135
Study on optimal performance and working temperatures of endoreversible forward and reverse Carnot cycles, Int J Energy Res 19(9) 751-759 (Dec 1995), 4A1136
Theoretical methods in thermodynamics of condensed phases, J Thermal Anal 45(4) 829-838 (Oct 1995), 4A1137
Homogeneous nucleation of vapor by depressurization at constant volume, Int J Heat Mass Transfer 39(2) 235-246 (Jan 1996), 4A1191
Thermodynamics and Heat Power, Fifth Edition (Reston, Prentice-Hall, Englewood Cliffs NJ, 1996) 5N31
Use of the second law of thermodynamics in process design, J Energy Resources Tech 117(3) 179-185 (Sep 1995), 5A1118
Concept of physical metric in thermodynamics, Acta Mech 113(1-4) 169-184 (1995), 5A1119
Differences between second law analysis and pinch technology, J Energy Resources Tech 117(3) 186-191 (Sep 1995), 5A1120
High-power multi-stage Rankine cycles, J Energy Resources Tech 117(3) 192-196 (Sep 1995), 5A1121
Thermodynamic analysis of the rich flammability limits of fuel-diluent mixtures in air, J Energy Resources Tech 117(3) 239-242 (Sep 1995), 5A1122
Martin-Hou, Peng-Robinson and Redlich-Kwong-Soave equations of state for HFC 125, Int J Energy Res 20(1) 33-39 (Jan 1996), 6A1061

Thermodynamic simulation and evaluation of a steam CHP plant using ASPEN plus, Appl Thermal Eng 16(3) 263-271 (Mar 1996), 6A1062
Entropy Generation Minimization: Method of Thermodynamic Optimization of Finite-Size Systems and Finite-Time Processes (CRC Press, Boca Raton FL, 1995) 7R26
Irreversibility analysis of a sieve tray in a distillation column, Int J Heat Mass Transfer 39(7) 1535-1542 (May 1996), 7A1201
Maximum power from fluid flow, Int J Heat Mass Transfer 39(6) 1175-1181 (Apr 1996), 7A1202
Performance of a thermodynamic water pump, Appl Thermal Eng 16(4) 321-334 (Apr 1996), 7A1203
Thermodynamic optimization of cooling techniques for electronic packages, Int J Heat Mass Transfer 39(6) 1213-1221 (Apr 1996), 7A1278
Description of the third law of thermodynamics (Chinese), J Dalian Univ Tech 35(1) 35-39 (Feb 1995), 8A1059
Universal model for studying the performance of Carnot-like engines at maximum power conditions, Int J Energy Res 20(3) 203-214 (Mar 1996), 8A1060
Unified approach to the description of phase transitions and strain localization, Arch Appl Mech 66(4) 242-254 (Mar 1996), 9A1284
Understanding Engineering Thermo (Prentice Hall, Upper Saddle River, NJ, 1996) 10R33
Introduction to the Thermodynamics of Materials, Third Edition (Taylor & Francis, PA, 1995) 10N36
Thermodynamic analysis of combined diesel engine and absorption refrigeration unit: Supercharged engine, Appl Thermal Eng 16(6) 509-514 (Jun 1996), 10A1241
Thermodynamic analysis, parametric study and optimum operation of the Kalina cycle, Int J Energy Res 20(4) 359-370 (Apr 1996), 10A1242
Thermofluids (Chapman and Hall, New York, 1996) 11R41
Thermodynamic performances of non-CFC working fluids in heat-pump cycles, Appl Thermal Eng 16(7) 571-578 (Jul 1996), 11A1088
Thermodynamic theory of viscoelasticity, J Thermal Anal 46(3-4) 985-1010 (Apr 1996), 11T1089
Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design, Int J Heat Mass Transfer 39(11) 2195-2204 (Jul 1996), 11A1229
Thermodynamic optimization of solar-driven refrigerators, J Solar Energy Eng 118(2) 130-135 (May 1996), 11A1430
Applied Thermodynamics: Availability Method and Energy Conversions (Taylor & Francis, PA, 1995) 12N45
Equivalence of maximum power and minimum entropy generation rate in the optimization of power plants, J Energy Resources Tech 118(2) 98-101 (Jun 1996), 12A1209
Thermodynamic analysis of combined diesel engine and absorption unit: Turbocharged engine with intercooling, Appl Thermal Eng 16(8-9) 733-740 (Sep 1996), 12A1210

400E. Statistical mechanics

Systematic projection operator formalism in non-equilibrium statistical mechanics, J Phys Soc Japan 65(4) 887-890 (Apr 1996), 10A1243

400L. Thermodynamic properties of matter

Boiling point and molar enthalpy of vaporization of fluorint FC-70 $N(C_5F_{11})_3$: Determined by static-sample and DSC methods, J Thermal Anal 45(1-2) 193-197 (Aug 1995), 1A1156
Measurements of specific heat of meta-nitrobenzoic acid-diethanolamine crystals: By differential scanning calorimetry, J Thermal Anal 45(1-2) 269-273 (Aug 1995), 1A1157
Measuring and modeling the thermophysical properties of porous alpha-two titanium aluminide compacts, Exp Heat Transfer 8(1) 57-71 (Mar 1995), 1A1158
Study on the thermodynamic properties and dehydration reaction kinetics of some salt-hydrates, J Thermal Anal 45(1-2) 109-115 (Aug 1995), 1A1159
Thermodynamic properties of aqueous mixtures of LiCl and Li_2SO_4 at different temperatures, J Thermal Anal 45(1-2) 117-130 (Aug 1995), 1A1160
Estimation of thermophysical properties of lubricating oils and their solutions with refrigerants: An appraisal of existing methods, Appl Thermal Eng 16(1) 51-61 (Jan 1996), 3A1013
Fast evaluation of thermodynamic properties of superheated steam: A cubic equation of state, Appl Thermal Eng 16(1) 71-79 (Jan 1996), 3A1014
Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, J Thermal Anal 45(4) 839-847 (Oct 1995), 4A1138
Thermodynamics of a mixture of isotropic materials with constraints, Int J Eng Sci 33(14) 2021-2054 (Nov 1995), 4A1139
Specific heat capacities of pure triglycerides by heat-flux differential scanning calorimetry, J Thermal Anal 45(6) 1449-1461 (Dec 1995), 6A1063
Thermodynamic constitutive equations for materials with memory on a material time scale, J Rheol 40(1) 69-109 (Feb 1996), 6A1064
On-site experimental estimation of thermal conductivities and heat capacities in multilayer walls under arbitrary transient conditions using explicit and implicit finite difference schemes, Int J Energy Res 20(1) 17-32 (Jan 1996), 6A1114
Dissipative terms of thermal nature in the theory of an ideal monoatomic superfluid, Z Angew Math Phys 47(1) 144-161 (Jan 1996), 8A8
Equilibres liquide-vapeur isothermes de melanges binaires de la piperidine et de la N-methyl piperidine avec certains ethers (French), J Thermal Anal 46(1) 245-261 (Jan 1996), 8A1061
Heat capacities of $15Na_2O{\cdot}10(MgO, CaO, TiO_2, ZrO_2){\cdot}75SiO_2$ glasses, J Thermal Anal 46(2) 329-334 (Feb 1996), 8A1062
Moist Gases: Thermodynamic Properties (Begell House, New York, 1995) 9N28
Handbook of Thermodynamic Tables, Second Edited and Revised Edition (Begell House, New York, 1996) 10N34
Measuring thermal properties with the parallel wire method: A comparison of mathematical models, Int J Heat Mass Transfer 39(10) 2009-2013 (Jul 1996), 10A1298
Non-isothermal heat capacities and chemical reactions using a modulated DSC, J Thermal Anal 46(3-4) 879-892 (Apr 1996), 11A1090

400S. Temperature measurement and calorimetry

Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, J Thermal Anal 45(1-2) 59-67 (Aug 1995), 1A1161
New calorimeter for measuring rapidly thermal conductivities of the organic liquids and the electrically conducting liquids, J Thermal Anal 45(1-2) 47-52 (Aug 1995), 1A1162
Precision calorimetric studies of H_20 electrolysis, J Thermal Anal 45(1-2) 99-108 (Aug 1995), 1A1163
Layer thermocouple: New instrument for the assessment of the grinding wheel cutting ability, European J Mech Eng 40(2) 67-70 (1995), 2A1080
Fusion temperatures and enthalpies of high-temperature materials determined by differential thermal methods, J Thermal Anal 45(3) 359-368 (Sep 1995), 3A1015
Limited-view optical tomography technique and its application to temperature field measurement in flow of hot air, Acta Mech Sinica 11(2) 186-192 (1995), 3A1016
Measurement of tool-workpiece interface temperature by two-color pyrometer (Japanese), J Japan Soc Precision Eng 61(10) 1448-1452 (Oct 1995), 4T1140
Equilibrium and nonequilibrium phase transitions studied by adiabatic calorimetry, J Thermal Anal 45(5) 1061-1071 (1995), 5A1123
Indispensability of the use of calorimetric measurements for the description of adsorption processes in microporous systems, J Thermal Anal 45(5) 961-965 (1995), 5A1124
Studies of thermokinetics in an adiabatic calorimeter - I: Design and testing of an adiabatic automatic calorimeter, J Thermal Anal 45(6) 1403-1410 (Dec 1995), 6A1065
Temperature calibration of differential scanning calorimeters, J Thermal Anal 45(6) 1285-1296 (Dec 1995), 6A1066
Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, AIAA J 34(3) 442-448 (Mar 1996), 8A1050
Simultaneous water vapor concentration and temperature measurements using 1.31-μm diode lasers, AIAA J 34(3) 483-488 (Mar 1996), 8A1053
Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, AIAA J 34(3) 500-507 (Mar 1996), 8A1057
Planar OH density and apparent temperature measurements in a supersonic combusting flow, AIAA J 34(3) 463-469 (Mar 1996), 8A1063
Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, AIAA J 34(3) 624-626 (Mar 1996), 8T1064
Temperature measurement during high-intensity laser-liquid interactions, Exp Heat Transfer 8(4) 241-255 (Dec 1995), 8A1122
Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, Heat Transfer Japan Res 24(1) 45-56 (1995), 9A1253
Thermal modeling and analysis of laser calorimeters, J Thermophys Heat Transfer 10(2) 350-356 (Jun 1996), 10A1244
Inverse problem in thermal imaging, SIAM J Appl Math 56(3) 715-735 (Jun 1996), 11A1091
Modulated temperature DSC measurements relating to the cold crystallization process of poly(ethylene terephtalate), J Thermal Anal 46(3-4) 893-903 (Apr 1996), 11A1092
Slow calorimetry and heat of fusion of poly(4-methyl pentene-1), J Thermal Anal 46(3-4) 809-832 (Apr 1996), 11A1093
Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, J Thermal Anal 46(3-4) 935-954 (Apr 1996), 11A1094

402. ONE PHASE CONVECTION

402B. Forced convection (external)

Comparison of different turbulence models for prediction of slot-film cooling: Flow and temperature field, Numer Heat Transfer B 28(2) 217-238 (Sep 1995), 1A1086
Analytical method for forced convection from flat plates, circular cylinders, and spheres, J Thermophys Heat Transfer 9(3) 516-523 (Sep 1995), 1A1164
Conjugate heat transfer and particle transport in outside vapor deposition process, Numer Heat Transfer A 28(1) 39-54 (Jul 1995), 1A1165
Forced convection past a slender body in a saturated porous medium, SIAM J Appl Math 55(4) 975-985 (Aug 1995), 1A1166
Jet cooling of ribbed walls of molds for producing corrugated pipes and hoses, Heat Transfer Res 25(6) 816-824 (1993), 1A1167
Local heat transfer in bundles of transversely finned tubes, Heat Transfer Res 25(6) 825-835 (1993), 1A1168
Low Prandtl number heat transfer to fluids flowing past an isothermal spherical particle, Int J Heat Fluid Flow 16(4) 291-297 (Aug 1995), 1A1169
Optimization of pulsating heaters in forced convection, Int J Heat Mass Transfer 38(16) 2925-2034 (Nov 1995), 1A1170
Thermal boundary layer on a power-law stretched surface with suction or injection, Int J Heat Fluid Flow 16(4) 280-290 (Aug 1995), 1A1171
Computational analysis of convection heat transfer to non-spherical particles, Int J Heat Mass Transfer 38(17) 3171-3180 (Nov 1995), 2A1081
Experimental investigation into forced, natural and combined forced and natural convective heat transfer from stationary isothermal circular disks, Int J Heat Mass Transfer 38(18) 3329-3339 (Dec 1995), 2A1082
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1 (ASME Press, New York, 1995) 3N32
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2 (ASME Press, New York, 1995) 3N33
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3 (ASME Press, New York, 1995) 3N34
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 4 (ASME Press, New York, 1995) 3N35
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5 (ASME Press, New York, 1995) 3N36
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 6 (ASME Press, New York, 1995) 3N37
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 7 (ASME Press, New York, 1995) 3N38
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 8 (ASME Press, New York, 1995) 3N39
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9 (ASME Press, New York, 1995) 3N40
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10 (ASME Press, New York, 1995) 3N41
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11 (ASME Press, New York, 1995) 3N42
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12 (ASME Press, New York, 1995) 3N43
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13 (ASME Press, New York, 1995) 3N44
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14 (ASME Press, New York, 1995) 3N45
Convection and heat transfer of elliptical tubes, Heat and Mass Transfer Warme 30(6) 411-415 (Sep 1995), 3A1017
Exact solution of nonsteady thermal boundary layer equation, J Heat Transfer 117(3) 770-772 (Aug 1995), 3T1018
Heat transfer from a flat plate to a fully developed axisymmetric impinging jet, J Heat Transfer 117(3) 772-776 (Aug 1995), 3T1019
Numerical laminar and turbulent fluid flow and heat transfer predictions in tube banks, Int J Numer Methods Heat & Fluid Flow 5(8) 717-733 (Oct 1995), 3A1020
Numerical visualization of convective heat transfer from a sphere-with and without radial mass efflux, Int J Numer Methods Heat & Fluid Flow 5(8) 705-716 (Oct 1995), 3A1021
Optimal spacing for cylinders in crossflow forced convection, J Heat Transfer 117(3) 767-770 (Aug 1995), 3T1022
Development of new correlations for forced convection heat transfer during cooling of products, Int J Energy Res 19(9) 791-801 (Dec 1995), 4A1141
Modeling fuel spray impingement and heat transfer between spray and wall in direct injection diesel engines, Numer Heat Transfer A 28(5) 515-529 (Nov 1995), 4A1142
Optimal spacing of cylinders in free-stream cross-flow forced convection, Int J Heat Mass Transfer 39(2) 311-317 (Jan 1996), 4A1143
Experimental investigation on natural and forced convection in liquid metals, Int J Heat Mass Transfer 39(3) 547-561 (Feb 1996), 4A1148
Shroud technique using the transient method for local heat transfer measurements, Exp Heat Transfer 8(2) 161-173 (Jun 1995), 4A1176
Periodic heat transfer in a vertical plate fin cooled by a forced convective flow, Int J Heat Mass Transfer 39(2) 429-435 (Jan 1996), 4A1221
Thermal Design and Optimization (Wiley, New York, 1996) 5N30
Special features of boiling of macromolecular polymer solutions, Heat Transfer Res 25(7) 872-878 (1993), 5A1125
Mean flow characteristics of a 3D turbulent wall jet over an isothermal and an insulating flat surface, Heat and Mass Transfer Warme 31(1-2) 89-93 (Dec 1995), 6A1067
Determination and control of grinding zone temperature under cryogenic cooling, Int J Machine Tools Manuf 36(4) 491-501 (Apr 1996), 7A750
Turbulent Prandtl number in the near-wall region for low-Prandtl-number gas mixtures, Int J Heat Mass Transfer 39(6) 1287-1295 (Apr 1996), 7A1131
Conjugate forced convection in crossflow over a cylinder array with volumetric heating, Int J Heat Mass Transfer 39(7) 1351-1361 (May 1996), 7A1204
Mechanistic model for heat transfer from a wall to a fluid, Int J Heat Mass Transfer 39(7) 1475-1478 (May 1996), 7A1205
Advanced calculation method for the surface temperature distribution of turbine blades, J Heat Transfer 118(1) 18-22 (Feb 1996), 8A1065
Experimental study of heat transfer coefficients in film cooling on a non-adiabatic wall: Effects of injection geometry (French), Int J Heat Mass Transfer 39(9) 1935-1951 (Jun 1996), 8A1066
Heat and momentum transfer in flows adjacent to vibrating wall surfaces, Heat and Mass Transfer Warme 31(3) 145-151 (Feb 1996), 8A1067
Measurements in buoyancy-opposing laminar flow over a vertical forward-facing step, Int J Heat Mass Transfer 39(9) 1805-1813 (Jun 1996), 8A1068
Heat sinks with sloped plate fins in natural and forced convection, Int J Heat Mass Transfer 39(9) 1773-1783 (Jun 1996), 8A1074
Introduction to Heat Transfer, Third Edition (Wiley, New York, 1996) 10N35
Principles of Heat Transfer, Revised Fifth Edition (PWS-Kent, Boston, MA, 1996) 10N37
Effects of freestream nonequilibrium on convective heat transfer to a blunt body, J Thermophys Heat Transfer 10(2) 234-241 (Jun 1996), 10A1101
Boundary layer development on a continuous moving surface with a parallel free steam due to impulsive motion, Heat and Mass Transfer Warme 31(4) 283-289 (Apr 1996), 10A1245
Steady-state numerical solution of the Navier-Stokes and energy equations around a horizontal cylinder at moderate Reynolds numbers from 100 to 500, Heat Transfer Eng 17(1) 31-81 (Mar 1996), 10A1246
Thermal ignition in buoyancy-driven boundary layer flows along inclined hot plates, Int J Heat Mass Transfer 39(10) 2187-2190 (Jul 1996), 10T1247
Conditionally sampled turbulent Prandtl number in the outer region of a turbulent boundary layer, J Heat Transfer 118(2) 480-482 (May 1996), 11T943
Film cooling of the gas turbine endwall by discrete-hole injection, J Turbomachinery 118(2) 278-284 (Apr 1996), 11A1040
Development of a new number (the Dincer number) for forced-convection heat transfer in heating and cooling applications, Int J Energy Res 20(5) 419-422 (May 1996), 11A1095

Effect of film hole row location on film effectiveness on a gas turbine blade, J Heat Transfer 118(2) 327-333 (May 1996), 1A1096
Effects of variable properties and viscous dissipation during optical fiber drawing, J Heat Transfer 118(2) 350-358 (May 1996), 1A1097
Elements of a general correlation for turbulent heat transfer, J Heat Transfer 118(2) 287-293 (May 1996), 1A1098
Experimental and theoretical studies of mist jet impingement cooling, J Heat Transfer 118(2) 343-349 (May 1996), 1A1099
Local convective behavior and fin efficiency in shallow banks of in-line and staggered, annularly finned tubes, J Heat Transfer 118(2) 317-326 (May 1996), 1A1100
Local, instantaneous heat transfer coefficients for jet impingement on a phase change surface, J Heat Transfer 118(2) 334-342 (May 1996), 1A1101
Performance indicators for steady-state heat transfer through fin assemblies, J Heat Transfer 118(2) 310-316 (May 1996), 1A1102
Response of periodic wall protrusions on average flow and heat transfer characteristics in a forced convection study, Mec Appl 40(1) 33-53 (Feb 1995), 1A1103
Variation of temperature and velocity fluctuations in turbulent thermal convection over horizontal surfaces, Int J Heat Mass Transfer 39(11) 2303-2310 (Jul 1996), 1A1104
Heat transfer on the base surface of 3D protruding elements, Int J Heat Mass Transfer 39(14) 2925-2935 (Sep 1996), 12A1211
Nozzle-geometry effects in liquid jet impingement heat transfer, Int J Heat Mass Transfer 39(14) 2915-2923 (Sep 1996), 12A1262

402C. Forced convection (internal)

Analysis of unsteady forced convection in turbulent duct flow, J Thermophys Heat Transfer 9(3) 508-515 (Sep 1995), 1A1172
Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, Numer Heat Transfer A 28(2) 133-146 (Aug 1995), 1A1173
Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, Numer Heat Transfer A 28(2) 147-155 (Aug 1995), 1A1174
Effect of eccentricity and thermal boundary conditions on laminar fully developed flow in annular ducts, Int J Heat Fluid Flow 16(4) 298-306 (Aug 1995), 1A1175
Effects of streamwise convergence in radius on the laminar forced convection in axisymmetric ducts, Numer Heat Transfer A 28(1) 19-38 (Jul 1995), 1A1176
Friction factor and Nusselt number in flat tubes with rounded edges, Int J Heat Fluid Flow 16(4) 307-310 (Aug 1995), 1A1177
Heat transfer and fluid flow characteristics of plate-array aligned at angles to the flow direction, Int J Heat Mass Transfer 38(16) 3053-3063 (Nov 1995), 1A1178
Heat transfer by oscillating flow in a circular pipe with a sinusoidal wall temperature distribution, Int J Heat Mass Transfer 38(14) 2529-2537 (Sep 1995), 1A1179
Heat transfer in a channel with a counter-current wall jet injection, Int J Heat Mass Transfer 38(14) 2677-2687 (Sep 1995), 1A1180
Numerical investigation of conjugate heat transfer from a flush heat source on a conductive board in laminar channel flow, Int J Heat Mass Transfer 38(16) 2969-2984 (Nov 1995), 1A1181
Numerical solution of laminar forced convection in a heated pipe subjected to a reciprocating flow, Int J Heat Mass Transfer 38(16) 3011-3022 (Nov 1995), 1A1182
Prediction of turbulent heat transfer in the entrance of an array of heated blocks using low-Reynolds-number κ-ϵ model, Numer Heat Transfer A 28(3) 263-277 (Sep 1995), 1A1183
Analysis of laser beam deviation fluctuations in a turbulent nonisothermal flow and relevance to sg, Int J Heat Mass Transfer 38(17) 3135-3142 (Nov 1995), 2A990
Axial heat-transfer characteristics enhanced by an oscillating fluid in a thin tube, Heat Transfer Japan Res 23(6) 525-543 (1994), 2A1083
Convective heat transfer in periodic wavy passages, Int J Heat Mass Transfer 38(17) 3219-3230 (Nov 1995), 2A1084
Direct numerical simulation of a turbulent open channel flow with passive heat transfer, Int J Heat Mass Transfer 38(17) 3241-3251 (Nov 1995), 2A1085
Experimental studies of laminar flow and heat transfer in a one-porous-wall square duct with wall injection, Int J Heat Mass Transfer 38(18) 3475-3484 (Dec 1995), 2A1086
Experimental study of the heat transfer enhancement of an outer tube with an inner-tube insertion, Int J Heat Mass Transfer 38(18) 3443-3454 (Dec 1995), 2A1087
Heat transfer enhancement in annular channels with helical and longitudinal fins, Heat Transfer Eng 16(2) 29-34 (Jun 1995), 2A1088
Heat transfer in a rectangular channel with perforated turbulence promoters using holographic interferometry measurement, Int J Heat Mass Transfer 38(17) 3197-3207 (Nov 1995), 2A1089
Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), Stahlbau 9 265-270 (Sep 1995), 3A803
Analysis of forced convection heat transfer in microencapsulated phase change material suspensions, J Thermophys Heat Transfer 9(4) 727-732 (Dec 1995), 3A1023
Analysis of thermal energy storage system with conjugate turbulent forced convection, J Thermophys Heat Transfer 9(4) 722-726 (Dec 1995), 3A1024
Equation for laminar flow heat transfer for constant heat flux boundary condition in ducts of arbitary cross-sectional area, J Heat Transfer 117(3) 765-766 (Aug 1995), 3T1025
Forced convection in ducts with a boundary condition of the third kind, J Thermophys Heat Transfer 9(4) 800-802 (Dec 1995), 3T1026
Heat transfer enhancement in a channel with a built-in rectangular cylinder, Heat and Mass Transfer Warme 30(6) 423-427 (Sep 1995), 3A1027
Heat transfer enhancement in narrow channels using 2D and 3D mixing devices, J Heat Transfer 117(3) 590-596 (Aug 1995), 3A1028
Investigation of flow and heat transfer in corrugated passages - II: Numerical simulations, Int J Heat Mass Transfer 39(1) 165-192 (Jan 1996), 3A1029
Investigation of flow and heat transfer in corrugated passages - I: Experimental results, Int J Heat Mass Transfer 39(1) 149-164 (Jan 1996), 3A1149
Laminar heat transfer in square duct flow of aqueous CMC solutions, Int J Heat Mass Transfer 39(3) 503-510 (Feb 1996), 4A1144
Permanent 3D patterns in turbulent flows with essentially 2D wall configurations, Int J Heat Mass Transfer 39(2) 373-382 (Jan 1996), 4A1145
Theory of thermal hydraulic quenchback, Int J Heat Mass Transfer 39(3) 491-501 (Feb 1996), 4A1146
Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, Int J Heat Fluid Flow 16(5) 398-404 (Oct 1995), 5A1126
Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, Int J Heat Fluid Flow 16(5) 389-397 (Oct 1995), 5A1127
Heat transfer in pulsating flow of a liquid with internal heat sources, Heat Transfer Res 25(7) 879-883 (1993), 5A1128
Numerical analysis of heat transfer in an air-filled bayonet tube under laminar conditions, Int J Heat Mass Transfer 39(4) 761-769 (Mar 1996), 5A1129
Asymptotic study of heat transfer in the entrance region of turbulent channel and pipe flows (German), Heat and Mass Transfer Warme 31(1-2) 65-76 (Dec 1995), 6A1068
Cooling methods for railway tunnels, Proc Inst Mech Eng F 209(F2) 105-112 (1995), 6A1069
Forced convection heat transfer of single-phase binary mixtures through microchannels, Exp Thermal Fluid Sci 12(1) 98-104 (Jan 1996), 6T1070
Laminar forced convection with sinusoidal wall heat flux distribution: Axially periodic regime, Heat and Mass Transfer Warme 31(1-2) 41-48 (Dec 1995), 6A1071
Numerical study of natural convection dominated melting of a PCM with conjugate forced convection, Trans Can Soc Mech Eng 19(4) 455-469 (1995), 6A1072
Turbulent near-wall model on convective heat transfer from an abrupt expansion tube, Heat and Mass Transfer Warme 31(1-2) 33-40 (Dec 1995), 6A1073
Note on thermocouple measurements for laminar-turbulent transition phenomena in pipe flow, Exp Heat Transfer 8(3) 209-228 (Sep 1995), 6A1105
Nusselt numbers in laminar flow for H2 boundary conditions, Int J Heat Mass Transfer 39(6) 1165-1174 (Apr 1996), 7A1206
Thermal entrance region for laminar forced convection in a circular tube with a power-law wall heat flux, Int J Heat Mass Transfer 39(6) 1265-1272 (Apr 1996), 7A1207
Effects of multiple obstructions on conjugate forced convection heat transfer in tubes, Numer Heat Transfer A 29(3) 265-279 (Feb 1996), 8A1069
Exact analytical solution for the extended turbulent Graetz problem with Dirichlet wall boundary conditions for pipe and channel flows, Int J Heat Mass Transfer 39(8) 1625-1637 (May 1996), 8A1070
Fully-developed laminar fluid flow and heat transfer in an eccentric annulus with an axially moving core, J Heat Transfer 118(1) 205-209 (Feb 1996), 8T1071
Heat (mass) transfer in a serpentine channel with right-angled turns, J Heat Transfer 118(1) 211-213 (Feb 1996), 8T1072
Laminar flow and forced convection heat transfer in plate-type monolith structures by a FE solution, Int J Heat Mass Transfer 39(9) 1963-1978 (Jun 1996), 8A1073
Experimental studies and correlations of radially-outward and inward air-flow heat transfer in a rotating square duct, J Heat Transfer 118(1) 23-30 (Feb 1996), 8A1103
Heat transfer enhancement by longitudinal vortices in a fin-tube heat exchanger element with flat tubes, J Heat Transfer 118(1) 209-211 (Feb 1996), 8T1199
Cooling of a 2D space with one or more streams making one or more passes, Int J Heat Fluid Flow 17(1) 78-88 (Feb 1996), 8A1220
Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, J Electron Packaging 118(1) 31-36 (Mar 1996), 8A1221
Single-phase and boiling cooling of small pin fin arrays by multiple nozzle jet impingement, J Electron Packaging 118(1) 21-26 (Mar 1996), 8A1222
Introduction to Heat Transfer, Third Edition (Wiley, New York, 1996) 10N35
Analytical solutions for laminar fully developed flows in double-sine shaped ducts, Heat and Mass Transfer Warme 31(4) 269-277 (Apr 1996), 10A1248
Convective transport phenomena in an impulsively started lid-driven open-cavity flow, Numer Heat Transfer A 29(5) 511-524 (Apr 1996), 10A1249
Influence of thermal boundary condition on laminar heat transfer in the hydrodynamic entrance region of circular ducts (German), Heat and Mass Transfer Warme 31(4) 199-204 (Apr 1996), 10A1250
Role of mainstream flow velocity in film cooling in a duct, J Thermophys Heat Transfer 10(2) 382-384 (Jun 1996), 10T1251
Turbulent forced convection in a helicoidal pipe with substantial pitch, Int J Heat Mass Transfer 39(10) 2015-2022 (Jul 1996), 10A1252
Effects of variable properties and viscous dissipation during optical fiber drawing, J Heat Transfer 118(2) 350-358 (May 1996), 11A1097
Elements of a general correlation for turbulent heat transfer, J Heat Transfer 118(2) 287-293 (May 1996), 11A1098
Artificial roughness effects on turbulent transfer coefficients in the entrance region of a circular tube, Int J Heat Mass Transfer 39(12) 2515-2523 (Aug 1996), 11A1105
Conjugate Graetz problem with axial conduction, J Heat Transfer 118(2) 482-485 (May 1996), 11T1106
Conjugate heat transfer from a single surface-mounted block to forced convective air flow in a channel, J Heat Transfer 118(2) 301-309 (May 1996), 11A1107
Convective heat transfer and flow friction for water flow in microchannel structures, Int J Heat Mass Transfer 39(12) 2599-2608 (Aug 1996), 11A1108
Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, J Heat Transfer 118(2) 294-300 (May 1996), 11A1109
Effect of tube-tape clearance on heat transfer for fully-developed turbulent flow in a horizontal isothermal tube, Int J Heat Fluid Flow 17(2) 173-178 (Apr 1996), 11A1110
Existence of an asymptotic thermally developed region for laminar forced convection in a circular duct, Int J Heat Mass Transfer 39(13) 2735-2744 (Sep 1996), 11A1111
Inverse analysis of transient turbulent forced convection inside parallel-plate ducts, Int J Heat Mass Transfer 39(12) 2615-2618 (Aug 1996), 11T1112
Laminar forced convection in the entrance region of a semiporous channel, J Heat Transfer 118(2) 505-507 (May 1996), 11T1113
Local heat transfer coefficient distribution on a ribbed surface, J Enhanced Heat Transfer 3(3) 187-200 (1996), 11A1114
Review of forced convective heat transfer in stationary and rotating annuli, Proc Inst Mech Eng C 210(C2) 123-134 (1996), 11A1115
Single-phase heat transfer and pressure drop characteristics of an integral-spine fin within an annulus, J Enhanced Heat Transfer 3(3) 201-210 (1996), 11A1219

402D. Natural convection (external)

Thermal stratification effects near a vertical ice slab in cold water, J Thermophys Heat Transfer 9(3) 555-558 (Sep 1995), 1T1184
Unsteady natural convection from a heated vertical plate in micropolar fluid, Numer Heat Transfer A 28(2) 253-262 (Aug 1995), 1A1185
Experimental investigation into forced, natural and combined forced and natural convective heat transfer from stationary isothermal circular disks, Int J Heat Mass Transfer 38(18) 3329-3339 (Dec 1995), 2A1082
Conjugate free convection from a horizontal surface in a porous medium, Z Angew Math Mech 75(9) 715-722 (1995), 2A1090
Effects of mass transfer on transient free convection flow past an infinite vertical isothermal plate, J Brazilian Soc Mech Sci 16(3) 279-287 (1994), 2A1091
Heat transfer and fluid flow of natural convection adjacent to upward-facing horizontal plates, Int J Heat Mass Transfer 38(17) 3149-3159 (Nov 1995), 2A1092
Heat transfer and fluid flow of natural convection along a vertical flat plate in the transition region: Experimental wall temperature field, Int J Heat Mass Transfer 38(18) 3485-3495 (Dec 1995), 2A1093
Convection and heat transfer of elliptical tubes, Heat and Mass Transfer Warme 30(6) 411-415 (Sep 1995), 3A1017
Combined heat and mass transfer by laminar natural convection from a vertical plate, Heat and Mass Transfer Warme 30(6) 369-376 (Sep 1995), 3A1030
Numerical study of convective heat transfer from a blunt plate at low Reynolds number, Int J Heat Mass Transfer 39(1) 125-133 (Jan 1996), 3A1031
Numerical study of natural convection from a vertical surface due to combined buoyancies, Numer Heat Transfer A 28(4) 409-429 (Oct 1995), 3A1193
Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N34
Explicit algebraic heat-flux model for the temperature field, Int J Heat Mass Transfer 39(3) 455-465 (Feb 1996), 4A1085
Enhancement of natural convection heat transfer from an array of discrete heat sources, Int J Heat Mass Transfer 39(3) 479-490 (Feb 1996), 4A1147
Experimental investigation on natural and forced convection in liquid metals, Int J Heat Mass Transfer 39(3) 547-561 (Feb 1996), 4A1148
Numerical simulation for conjugate problem of natural convection on both sides of a vertical wall, Int J Heat Mass Transfer 39(2) 383-390 (Jan 1996), 4A1149
Numerical solution for the inverse natural-convection problem, Numer Heat Transfer B 28(3) 307-321 (Nov 1995), 4A1175
Thermosolutal transport phenomena in large Lewis number electrochemical systems, Int J Heat Mass Transfer 39(4) 841-850 (Mar 1996), 5A1204
Chaotic behavior and heat transfer performance of the natural convection around a hot horizontal cylinder affected by a flat ceiling, Int J Heat Mass Transfer 39(5) 1081-1091 (Mar 1996), 6A1074
Conjugate free convection due to a heated vertical plate, Int J Heat Mass Transfer 39(5) 1067-1080 (Mar 1996), 6A1075
Finite difference analysis of unsteady natural convection flow along an inclined plate with variable surface temperature and mass diffusion, Heat and Mass Transfer Warme 31(1-2) 17-24 (Dec 1995), 6A1076
Free convection from a horizontal moving sheet, Heat and Mass Transfer Warme 31(1-2) 57-64 (Dec 1995), 6A1077
Natural convection from a buried elliptic heat source, Int J Heat Fluid Flow 16(6) 519-526 (Dec 1995), 6A1078
Nonstationary convection near a vertical surface with periodic change in heat flux, Exp Heat Transfer 8(3) 229-239 (Sep 1995), 6A1079
Transient laminar natural convection heat transfer from isothermal spheres, Numer Heat Transfer A 29(1) 83-101 (Jan 1996), 6A1080
Conjugate free convection on a vertical surface, Int J Heat Mass Transfer 39(7) 1527-1534 (May 1996), 7A1208
Enhancement of natural-convection heat transfer from a horizontal heated plate using grid fins, Heat Transfer Japan Res 23(8) 756-768 (1994), 7A1265
Heat sinks with sloped plate fins in natural and forced convection, Int J Heat Mass Transfer 39(9) 1773-1783 (Jun 1996), 8A1074
Laminar natural convection heat transfer from isothermal spheres, Int J Heat Mass Transfer 39(8) 1603-1615 (May 1996), 8A1075
Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, Heat and Mass Transfer Warme 31(3) 127-135 (Feb 1996), 8A1076
Winter-time convection in open-graded embankments, Cold Regions Sci Tech 24(1) 57-74 (Jan 1996), 8A1077
Transport Phenomena in Thermal Engineering - Proc of 6th Int Symp, Seoul, Korea (Begell House, New York, 1995) 9N29
Principles of Heat Transfer, Revised Fifth Edition (PWS-Kent, Boston, MA, 1996) 10N37
Natural convection from a cylinder with multiple, low-conductivity, longitudinal baffles, Int J Heat Mass Transfer 39(10) 2077-2086 (Jul 1996), 10A1253
Natural convection heat transfer from helicoidal pipes, J Thermophys Heat Transfer 10(2) 297-302 (Jun 1996), 10A1254
Convective instability in rotating liquid ^{3}He-^{4}He mixtures, J Fluid Mech 313 381-407 (Apr 1996), 11A981
Free convection at an axisymmetric stagnation point, J Fluid Mech 314 105-112 (May 1996), 11A1116

Heat transfer across a vertical wall separating two fluids at different temperatures, Int J Heat Mass Transfer 39(11) 2231-2241 (Jul 1996), 11A1117
Inclined and horizontal wall plumes, Int J Heat Mass Transfer 39(11) 2243-2252 (Jul 1996), 11A1118
Temperature rise at the surface of a liquid layer subject to a concentrated heat source placed above the layer, J Heat Transfer 118(2) 374-380 (May 1996), 11A1119

402E. Natural convection (enclosures)

Comparison exercise for computations of turbulent natural convection in enclosures, Numer Heat Transfer B 28(1) 59-78 (Aug 1995), 1A1186
Free convection heat transfer in multiple vertical channels, Int J Heat Fluid Flow 16(4) 244-253 (Aug 1995), 1A1187
Laminar natural convection flow in trapezoidal enclosures, Numer Heat Transfer A 28(1) 55-67 (Jul 1995), 1A1188
Natural convection in a side-heated cavity: Visualization of the initial flow features, J Fluid Mech 295 357-379 (Jul 1995), 1A1189
Natural convection of micropolar fluids in a 2D enclosure with a conductive partition, Numer Heat Transfer A 28(1) 69-83 (Jul 1995), 1A1190
Numerical simulations of interface viscosity effects on thermoconvective motion in 2D rectangular boxes, Int J Heat Mass Transfer 38(14) 2539-2548 (Sep 1995), 1A1191
Numerical study of free convection in a strongly inhomogeneous gas medium, Int J Heat Mass Transfer 38(14) 2689-2695 (Sep 1995), 1A1192
Numerical study of the compressible turbulent flow in a laser cavity, Int J Heat Mass Transfer 38(14) 2623-2633 (Sep 1995), 1A1193
Transient behavior of a $NaNO_3$ float zone operating at high Marangoni number under μ-g conditions, Numer Heat Transfer A 28(3) 299-320 (Sep 1995), 1A1194
Effects of variable property and surface radiation on laminar natural convection in a square enclosure, Int J Numer Methods Heat & Fluid Flow 5(7) 615-627 (Sep 1995), 1A1271
Enhancement technique for natural-convection heat transfer from vertical finned plates, Heat Transfer Japan Res 23(6) 513-524 (1994), 2A1094
Two-dimensional numerical study on a rectangular thermosyphon with vertical or horizontal heat transfer sections, Int J Heat Mass Transfer 38(17) 3313-3317 (Nov 1995), 2A1095
Effect of the temperature dependence of fluid properties on the migration of an interface in double diffusive natural convection, Int J Heat Mass Transfer 38(18) 3413-3421 (Dec 1995), 2A1164
Bouyant pulsating exchange flow through a vent, J Heat Transfer 117(3) 641-648 (Aug 1995), 3A1032
Conjugate heat transfer and buoyancy-driven secondary flow in the cooling channels within a vertical slab, Numer Heat Transfer A 28(4) 443-460 (Oct 1995), 3A1033
Conjugate natural convection in a planar thermosyphon with multiple inlets - I: Velocity and temperature fields, Int J Heat Mass Transfer 39(1) 49-59 (Jan 1996), 3A1034
Conjugate natural convection in a planar thermosyphon with multiple inlets - II: Heat transfer, Int J Heat Mass Transfer 39(1) 61-68 (Jan 1996), 3A1035
Effects of curvature, aspect ratio and plan form in 2D and 3D spherical models of thermal convection, Geophys Astrophys Fluid Dyn 79(1-4) 147-171 (Aug 1995), 3T1036
Experimental study of natural convection heat transfer between an outer horizontal cylindrical envelope and an inner concentric heated square cylinder with two slots, Heat and Mass Transfer Warme 30(6) 455-459 (Sep 1995), 3A1037
Introduction to the method of average magnitude analysis and application to natural convection in cavities, J Heat Transfer 117(3) 604-610 (Aug 1995), 3A1038
Laminar thermal convection in a vertical slot, Appl Sci Res 55(1) 1-29 (Jul 1995), 3A1039
Low Prandtl number Marangoni convection with a deforming interface, J Thermophys Heat Transfer 9(4) 795-797 (Dec 1995), 3T1040
Low Raylcigh number conjugate convection in straight inclined fractures in rock, Numer Heat Transfer A 28(4) 389-408 (Oct 1995), 3A1041
Natural convection heat transfer in a rectangular enclosure with a transverse magnetic field, J Heat Transfer 117(3) 668-673 (Aug 1995), 3A1042
Natural convection in a rotating fluid layer with deformable free surface, Geophys Astrophys Fluid Dyn 80(1-2) 75-102 (Sep 1995), 3T1043
Numerical study of free convective heat transfer from a heated half-cylinder in an enclosure, Trans Can Soc Mech Eng 19(3) 285-300 (1995), 3A1044
Onset of flow reversal and penetration length of natural convective flow between isothermal vertical walls, J Heat Transfer 117(3) 776-779 (Aug 1995), 3T1045
Thermocapillary convection experiment in microgravity, J Heat Transfer 117(3) 611-618 (Aug 1995), 3A1046
Three-dimensional natural convection in an enclosure with an internal isolated vertical plate, J Heat Transfer 117(3) 619-625 (Aug 1995), 3A1047
Transient 3D natural convection in a rectangular enclosure, Int J Heat Mass Transfer 39(1) 13-26 (Jan 1996), 3A1048
Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, J Heat Transfer 117(3) 634-640 (Aug 1995), 3A1049
Influence of inner-wall motion on the linear stability of natural convection in a tall vertical annulus, Int J Heat Mass Transfer 39(1) 193-201 (Jan 1996), 3A1051
Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, J Thermophys Heat Transfer 9(4) 702-707 (Dec 1995), 3A1067
Boundary-layer analysis of the thermal bar, J Fluid Mech 303 253-278 (Nov 1995), 4A1150
Investigation of 3D thermocapillary convection in a cubic container by a multi-grid method, Int J Heat Mass Transfer 39(3) 603-613 (Feb 1996), 4A1151
Natural convection in a differently heated square cavity: Experimental investigation at Ra = 1.69×10^9, Int J Heat Mass Transfer 39(3) 563-574 (Feb 1996), 4A1152
Natural convection in a shallow laterally heated air-filled cavity, Commun Numer Methods Eng 11(11) 937-950 (Nov 1995), 4A1153
Steady natural convection in a double layer of immiscible liquids with density inversion, Int J Heat Mass Transfer 39(3) 467-478 (Feb 1996), 4A1154
Studies on molecular diffusion and natural convection in a multicomponent gas system, Int J Heat Mass Transfer 39(3) 527-536 (Feb 1996), 4A1165
Comparison of different k-ε models for indoor air flow computations, Numer Heat Transfer B 28(3) 353-369 (Nov 1995), 4A1173
Numerical solution for the inverse natural-convection problem, Numer Heat Transfer B 28(3) 307-321 (Nov 1995), 4A1175
Numerical simulation of free convective flow using the lattice-Boltzmann scheme, Int J Heat Fluid Flow 16(5) 357-364 (Oct 1995), 5A1130
Numerical simulation of transient natural convection from an isothermal cavity open on a side, Numer Heat Transfer A 28(6) 755-768 (Dec 1995), 5A1131
Parametric study of buoyancy-induced flow and heat transfer from L-shaped corners with asymmetrically heated surfaces, Int J Heat Mass Transfer 39(4) 851-865 (Mar 1996), 5A1132
Prediction of turbulent thermal convection in concentric and eccentric horizontal annuli, Int J Heat Fluid Flow 16(5) 429-439 (Oct 1995), 5A1133
Conjugate natural convection from an array of protruding heat sources, Numer Heat Transfer A 29(1) 1-18 (Jan 1996), 6A1081
Conjugate natural convection from an array of discrete heat sources - Part 1: 2D and 3D model validation, Int J Heat Fluid Flow 16(6) 501-510 (Dec 1995), 6A1082
Conjugate natural convection from an array of discrete heat sources - Part 2: A numerical parametric study, Int J Heat Fluid Flow 16(6) 511-518 (Dec 1995), 6A1083
Interaction of wall conduction with natural convection from heated cylinders in a rectangular enclosure, Trans Can Soc Mech Eng 19(4) 489-494 (1995), 6A1084
Natural convection during melting and solidification of pure metals in a cavity, Numer Heat Transfer A 29(1) 49-63 (Jan 1996), 6A1085
Oscillatory convection due to combined buoyancy and thermocapillarity, J Thermophys Heat Transfer 10(1) 102-108 (Mar 1996), 6A1086
Transient natural convection from a finned surface for thermal storage in an enclosure, Numer Heat Transfer A 29(1) 103-114 (Jan 1996), 6A1087
Structural stability of the pitchfork bifurcation of thermal convection in a rectangular cavity, J Phys Soc Japan 64(12) 4670-4683 (Dec 1995), 6A1089
Convection in ^{3}He-superfluid-^{4}He mixtures - Part 2: A survey of instabilities, J Fluid Mech 307 297-331 (Jan 1996), 7A1118
Amplitude effect on convection induced by time-periodic horizontal heating, Int J Heat Mass Transfer 39(6) 1121-1133 (Apr 1996), 7A1209
Analysis of laminar natural convection from a discrete isothermal flush heater mounted on the side wall of a partially open rectangular enclosure, Numer Heat Transfer A 29(2) 211-225 (Feb 1996), 7A1210
Convection in ^{3}He-superfluid-^{4}He mixtures - Part 1: A Boussinesq analogue, J Fluid Mech 307 269-296 (Jan 1996), 7A1211
Higher order penalty-Galerkin FE approach to laminar natural convection in a square cavity, Numer Heat Transfer A 29(2) 197-210 (Feb 1996), 7A1212
Natural convection in a corrugated enclosure with mixed boundary conditions, J Solar Energy Eng 118(1) 50-57 (Feb 1996), 7A1213
Natural convection in partitioned 2D enclosures at higher Rayleigh numbers, Int J Heat Mass Transfer 39(7) 1407-1427 (May 1996), 7A1214
Transient natural convection heat transfer between concentric and vertically eccentric spheres, Int J Heat Mass Transfer 39(7) 1439-1452 (May 1996), 7A1215
Numerical simulation of unsteady convective intrusions in a thermohaline stratification, Int J Heat Mass Transfer 39(6) 1183-1201 (Apr 1996), 7A1298
Buoyancy-driven flow in an enclosure containing time periodic internal sources, Heat and Mass Transfer Warme 31(3) 113-119 (Feb 1996), 8A1078
Experimental investigation of natural convection heat transfer in volumetrically-heated spherical segments, J Heat Transfer 118(1) 31-37 (Feb 1996), 8A1079
Flow and heat transfer due to a buoyant coiling jet turning downward at a corner, J Heat Transfer 118(1) 38-46 (Feb 1996), 8A1080
Natural convection in a cubic enclosure in the presence of a horizontal magnetic field, J Heat Transfer 118(1) 215-218 (Feb 1996), 8T1081
New explanation of cause of heat convection of gases under micro-gravity (Chinese), J Dalian Univ Tech 35(2) 208-211 (Apr 1995), 8A1082
Transient natural convection between concentric and vertically eccentric spheres with mixed boundary conditions, Heat and Mass Transfer Warme 31(3) 137-143 (Feb 1996), 8A1083
Effects of heating mode on steady axisymmetric thermocapillary flows in microgravity, J Heat Transfer 118(1) 191-197 (Feb 1996), 8A1107
Buoyancy induced flow and heat transfer through a vertical annulus, Int J Heat Mass Transfer 39(10) 2087-2093 (Jul 1996), 10A1255
Experimental and numerical study of buoyancy-induced flow and heat transfer in an open annular cavity, Int J Heat Mass Transfer 39(10) 2053-2066 (Jul 1996), 10A1256
Laminar flow heat transfer in a cylinder with circumferential tubes, Trans Can Soc Mech Eng 20(1) 57-73 (1996), 10A1257
Natural convection over rotating cylindrical heat source in an enclosure, J Thermophys Heat Transfer 10(2) 303-311 (Jun 1996), 10A1258
Statistical saturation of buoyant flow induced by a fluctuating acceleration, AIAA J 34(5) 975-981 (May 1996), 10A1259
Evolution of the Rayleigh-Benard convection in a rectangular box, J Phys Soc Japan 65(4) 934-944 (Apr 1996), 10A1261
Linear and nonlinear dynamics of a differentially-heated slot under gravity modulation, J Fluid Mech 313 1-38 (Apr 1996), 11A90
Direct simulations of turbulent unstratified natural convection in a vertical slot for Pr = 0.71, Int J Heat Mass Transfer 39(12) 2485-2494 (Aug 1996), 11A1120
Formation of cells in natural convection in a vertical slot at large Prandtl number, J Fluid Mech 314 299-314 (May 1996), 11A1121
Heat transfer correlation for natural convection in a meniscus-shaped cavity and its application to contact melting process, Int J Heat Mass Transfer 39(11) 2267-2270 (Jul 1996), 11A1122
Laminar free convection in inclined rectangular enclosures, J Fluid Mech 313 343-366 (Apr 1996), 11A1123
Natural convection of high Prandtl number fluids with variable viscosity in a vertical slot, Int J Heat Mass Transfer 39(13) 2663-2670 (Sep 1996), 11A1124
Steady Rayleigh-Benard convection in a two-layer system of immiscible liquids, J Heat Transfer 118(2) 366-373 (May 1996), 11A1125
Instability of convection and heat transfer of high Prandtl number fluids in a vertical slot, J Heat Transfer 118(2) 359-365 (May 1996), 11A1128
Effect of time marching schemes on predictions of oscillatory natural convection in fluids of low Prandtl number, Numer Heat Transfer A 29(6) 575-597 (May 1996), 11A1158
Cooperating thermosolutal convection in enclosures - II: Heat transfer and flow structure, Int J Heat Mass Transfer 39(13) 2683-2697 (Sep 1996), 11A1261
Finite-amplitude patterns of convection in a rectangular-planform container, J Fluid Mech 317 111-127 (Jun 1996), 12A1042
Effect of time varying thermal boundary conditions on oscillatory natural convection of a low-Prandtl-number fluid, Numer Heat Transfer A 29(7) 645-669 (May 1996), 12A1212
g-Jitter induced free convection in a transverse magnetic field, Int J Heat Mass Transfer 39(14) 2853-2860 (Sep 1996), 12A1213
Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, Int J Heat Mass Transfer 39(14) 2869-2882 (Sep 1996), 12A1214
Thermovibrational convection in a vertical cylinder, Int J Heat Mass Transfer 39(14) 2895-2906 (Sep 1996), 12A1215

402F. Thermally unstable configurations

Convective flows under the influence of high-frequency vibrations, Eur J Mech B 14(4) 439-458 (1995), 1A1195
Influence of the heating rate on supercritical Rayleigh-Benard convection, Int J Heat Mass Transfer 38(16) 3035-3051 (Nov 1995), 1A1196
Linear stability analysis of thermocapillary convection in liquid bridges using a mixed finite difference-spectral method, Int J Numer Methods Heat & Fluid Flow 5(6) 481-494 (Aug 1995), 1A1197
Numerical simulation of supercritical Hadley circulation, within a porous layer, induced by inclined temperature gradients, Int J Heat Mass Transfer 38(14) 2583-2593 (Sep 1995), 1A1198
Finite-dimensional model of thermal instability, Appl Math letters 8(2) 39-44 (Mar 1995), 2A1096
Nonlinear stability of convection induced by inclined thermal and solutal gradients, Z Angew Math Phys 46(5) 645-654 (Sep 1995), 2A1097
Effects of curvature, aspect ratio and plan form in 2D and 3D spherical models of thermal convection, Geophys Astrophys Fluid Dyn 79(1-4) 147-171 (Aug 1995), 3T1036
First instability mechanism in differentially heated cavities with conducting horizontal walls, J Heat Transfer 117(3) 626-633 (Aug 1995), 3A1050
Influence of inner-wall motion on the linear stability of natural convection in a tall vertical annulus, Int J Heat Mass Transfer 39(1) 193-201 (Jan 1996), 3A1051
Rayleigh-Benard convection in a tube bank: Experimental verification of a simple model (German), Arch Appl Mech 65(8) 522-528 (Oct 1995), 3T1052
Linear stability of Couette flow with rotating inner cylinder and radially nonuniform internal heat sources, Int J Heat Mass Transfer 39(3) 537-545 (Feb 1996), 4A1155
Periodic solutions for differential equations of order three, with application to heat-flux induced convection, Math Methods Appl Sci 18(14) 1133-1164 (Nov 1995), 4A1156
Three-dimensional convection driven by centrifugal buoyancy, J Fluid Mech 301 371-382 (Oct 1995), 4A1162
Compositionally convective and morphological instabilities of a binary fluid layer under freezing with nonlinear analysis, Int J Heat Mass Transfer 39(2) 289-298 (Jan 1996), 4A1242
Effect on interfacial deformation on the onset of convective instability in a doubly diffusive fluid layer, Int J Heat Mass Transfer 39(2) 407-418 (Jan 1996), 4A1246
Growth rates of the Marangoni instability in a layer of elastic liquid, Rheol Acta 34(6) 601-605 (Dec 1995), 5A955
Nonlinear stability analysis of magnetohydrodynamic condensate film flow down a vertical plate with constant heat flux, Int J Heat Mass Transfer 39(4) 877-884 (Mar 1996), 5A982
New approach for linear stability analysis, Int J Numer Methods Heat & Fluid Flow 6(1) 21-30 (Jan 1996), 6A986
Existence and uniqueness of solutions for the steady deep Benard convection problem, Z Angew Math Mech 75(12) 909-915 (1995), 6A1088
Structural stability of the pitchfork bifurcation of thermal convection in a rectangular cavity, J Phys Soc Japan 64(12) 4670-4683 (Dec 1995), 6A1089
Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, Numer Heat Transfer A 29(2) 165-179 (Feb 1996), 7A1216
New explanation of cause of heat convection of gases under micro-gravity (Chinese), J Dalian Univ Tech 35(2) 208-211 (Apr 1995), 8A1082
Convection and stability in rotating porous layer with alternating direction of the centrifugal body force, Int J Heat Mass Transfer 39(8) 1639-1647 (May 1996), 8A1084
Evidence of a convective instability allowing warm water to freeze in less time than cold water, J Heat Transfer 118(1) 65-72 (Feb 1996), 8A1085
Mechanical quasi-equilibrium and thermovibrational convective instability in an inclined fluid layer, Int J Heat Mass Transfer 39(9) 1979-1991 (Jun 1996), 8A1086
Thermal stability of horizontally superposed porous and fluid layers in a rotating system, Int J Heat Mass Transfer 39(9) 1847-1857 (Jun 1996), 8A1087
Natural convective boiling in vertical rectangular narrow channels, Exp Thermal Fluid Sci 12(3) 313-324 (Apr 1996), 8T1131
Convective instabilities in rarefied gases by direct simulation Monte Carlo method, J Thermophys Heat Transfer 10(2) 250-256 (Jun 1996), 10A1116
Accuracy and nonuniqueness aspects of numerical solutions of some natural convection problems, Appl Math Model 20(5) 371-378 (May 1996), 10A1260

Evolution of the Rayleigh-Benard convection in a rectangular box, J Phys Soc Japan 65(4) 934-944 (Apr 1996), 10A1261
Nonisothermal stability of viscoelastic liquid flow between disks, Heat Transfer Res 25(8) 983-985 (1993), 10A1262
Free convection at an axisymmetric stagnation point, J Fluid Mech 314 105-112 (May 1996), 11A1116
Laminar free convection in inclined rectangular enclosures, J Fluid Mech 313 343-366 (Apr 1996), 11A1123
Steady Rayleigh-Benard convection in a two-layer system of immiscible liquids, J Heat Transfer 118(2) 366-373 (May 1996), 11A1125
Comparison of the reduced Galerkin and pseudospectral methods for simulation of steady Rayleigh-Benard convection, Int J Heat Mass Transfer 39(12) 2401-2407 (Aug 1996), 11A1126
How to determine critical Marangoni number in half floating zone convection, Int J Heat Mass Transfer 39(12) 2539-2544 (Aug 1996), 11A1127
Instability of convection and heat transfer of high Prandtl number fluids in a vertical slot, J Heat Transfer 118(2) 359-365 (May 1996), 11A1128
Stability of a fluid layer with uniform heat generation and convection boundary conditions, Int J Heat Mass Transfer 39(11) 2378-2382 (Jul 1996), 11T1129
Bifurcation study of double diffusive flows in a laterally heated stably stratified liquid layer, Int J Heat Mass Transfer 39(13) 2699-2710 (Sep 1996), 11A1259
Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, J Fluid Mech 316 53-72 (Jun 1996), 12A1216

402G. Combined natural and forced convection

Buoyancy-induced laminar convective rolls in rectangular geometry, Numer Heat Transfer A 28(2) 195-213 (Aug 1995), 1A1199
Computation of flow and heat transfer around a vertical discrete protruding heater using an operator-splitting algorithm, Numer Heat Transfer A 28(1) 103-119 (Jul 1995), 1A1200
Influence of wall conduction on mixed convection heat transfer in externally finned pipes, Numer Heat Transfer A 28(2) 157-173 (Aug 1995), 1A1201
Low or high Peclet number flow past a prolate spheroid in a saturated porous medium, SIAM J Appl Math 55(4) 952-974 (Aug 1995), 1A1202
Mixed convection in a vertical channel with heated blocks, J Thermophys Heat Transfer 9(3) 564-567 (Sep 1995), 1T1203
Mixed convection in an inclined channel with localized heat sources, Numer Heat Transfer A 28(3) 355-373 (Sep 1995), 1A1204
Mixed convection in horizontal channels with discrete material and top exhaust, Int J Heat Mass Transfer 38(14) 2519-2527 (Sep 1995), 1A1205
Numerical analysis of deterioration phenomena in heat transfer to supercritical water, Int J Heat Mass Transfer 38(16) 3077-3084 (Nov 1995), 1A1206
Experimental investigation into forced, natural and combined forced and natural convective heat transfer from stationary isothermal circular disks, Int J Heat Mass Transfer 38(18) 3329-3339 (Dec 1995), 2A1082
Fractal features of oscillatory convection in the half-floating zone, Int J Heat Mass Transfer 38(17) 3295-3303 (Nov 1995), 2A1098
Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium, Mech Res Commun 22(5) 503-510 (Oct 1995), 2T1099
Three-dimensional driven-cavity flows with a vertical temperature gradient, Int J Heat Mass Transfer 38(18) 3319-3328 (Dec 1995), 2A1100
Turbulent flow calculations of mixed convection in a periodically-ribbed channel, J Enhanced Heat Transfer 2(4) 295-305 (1995), 2A1101
Adaptive FEM for mixed convection, J Thermophys Heat Transfer 9(4) 708-714 (Dec 1995), 3A1053
Combined buoyancy and pressure-driven flow through a shallow, horizontal, circular vent, J Heat Transfer 117(3) 659-667 (Aug 1995), 3A1054
Combined convection and wall conduction effects in laminar pipe flow: Numerical predictions and experimental validation under uniform wall heating, Heat and Mass Transfer Warme 30(6) 401-409 (Sep 1995), 3A1055
Computation of turbulent flow in mixed convection in a cavity with a localized heat source, J Heat Transfer 117(3) 649-658 (Aug 1995), 3A1056
Effects of upstream wall heating on mixed convection in separated flows, J Thermophys Heat Transfer 9(4) 715-721 (Dec 1995), 3A1057
Laminar, buoyancy induced flow structures in a bottom heated, aspect ratio 2 duct with through-flow, Int J Heat Mass Transfer 39(1) 1-11 (Jan 1996), 3A1058
Two and 3D heat transfer in mixed convection with streamwise periodic heating, Numer Heat Transfer A 28(4) 431-442 (Oct 1995), 3A1059
Combined forced and free laminar convective heat transfer from a vertical plate with coupling of discontinuous surface heating, Int J Numer Methods Heat & Fluid Flow 5(9) 839-851 (Nov 1995), 4A1157
Developing 3D laminar mixed convection in a circular tube inserted with longitudinal strips, Int J Heat Mass Transfer 39(2) 299-310 (Jan 1996), 4A1158
Mixed-convection laminar film condensation on a semi-infinite vertical plate, J Fluid Mech 300 207-229 (Oct 1995), 4A1159
Stability of mixed-convection flow in a tall vertical channel under non-Boussinesq conditions, J Fluid Mech 302 91-115 (Nov 1995), 4A1160
Upstream migration of heat during combined convection in a horizontal parallel plate duct, Int J Heat Mass Transfer 39(2) 437-440 (Jan 1996), 4T1161
Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, Int J Heat Mass Transfer 39(3) 511-525 (Feb 1996), 4A1163
Laminar mixed convection in vertical elliptic ducts, Int J Heat Mass Transfer 39(4) 745-752 (Mar 1996), 5A1134
Nonsimilar mixed convection flow of a non-Newtonian fluid past a vertical wedge, Acta Mech 113(1-4) 205-213 (1995), 5A1135
Comparison of correlations and experiment in opposing flow, mixed convection heat transfer in a vertical tube with Grashof number variation, Int J Heat Mass Transfer 39(5) 1033-1038 (Mar 1996), 6A1090
Mixed convection in periodic open cavities with oscillatory throughflow, Numer Heat Transfer A 29(1) 33-47 (Jan 1996), 6A1091
Variant of the low-Reynolds-number two-equation turbulence model applied to variable property mixed convection flows, Int J Heat Fluid Flow 16(6) 486-492 (Dec 1995), 6A1092
Initial values searching method for solving non-similar boundary layer problems by the local non-similarity model, J Brazilian Soc Mech Sci 17(3) 252-268 (1995), 7A1099
Combined buoyancy effects of thermal and mass diffusion on laminar forced convection in horizontal rectangular ducts, Int J Heat Mass Transfer 39(7) 1479-1488 (May 1996), 7A1217
Conjugate mixed convection in a channel: Modified five percent deviation rule, Int J Heat Mass Transfer 39(6) 1223-1234 (Apr 1996), 7A1218
Mixed-convection in flows of viscoelastic liquids: A parametric study, J Brazilian Soc Mech Sci 17(3) 331-340 (1995), 7A1219
Transient conjugated mixed convection inside ducts with convection from the ambient, Int J Heat Mass Transfer 39(6) 1203-1211 (Apr 1996), 7A1220
Buoyancy- and pressure-driven motion in a vertical porous layer: Effects of quadratic drag, Appl Sci Res 55(2) 141-154 (Sep 1995), 8A1088
Criterion for turbulent combined forced and natural convection in a vertical flow system, J Heat Transfer 118(1) 213-215 (Feb 1996), 8T1089
Experimental study of unstable mixed convection of air in a bottom heated horizontal rectangular duct, Int J Heat Mass Transfer 39(8) 1649-1663 (May 1996), 8A1090
Finite element analysis of laminar-mixed convection in the entrance region of horizontal annular ducts, Numer Heat Transfer A 29(3) 313-330 (Feb 1996), 8A1091
Hot-block elevation effect on mixed convection in a parallel-plate channel, Numer Heat Transfer A 29(3) 297-312 (Feb 1996), 8A1092
Laminar-mixed convection heat transfer in externally-finned pipes, J Enhanced Heat Transfer 3(1) 29-42 (1996), 8A1093
Mixed convection boundary layer flow on a continuous flat plate with variable viscosity, Heat and Mass Transfer Warme 31(3) 169-172 (Feb 1996), 8A1094
Mixed convection in an axisymmetric stagnation flow of micropolar fluid on a vertical cylinder, Acta Mech 114(1-4) 139-149 (1996), 8A1095
Numerical simulation of transitional aiding mixed convective air flow in a bottom heated inclined rectangular duct, Int J Heat Mass Transfer 39(8) 1697-1710 (May 1996), 8A1096
Numerical simulations of mixing in a 2D periodic flow with buoyancy, Comput Fluids 25(2) 151-163 (Feb 1996), 8A1097
Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, Numer Heat Transfer A 29(4) 397-415 (Mar 1996), 8A1098
Unstable aiding and opposing mixed convection of air in a bottom-heated rectangular duct slightly inclined from the horizontal, J Heat Transfer 118(1) 47-55 (Feb 1996), 8A1099
Theoretical analysis for axisymmetric mixed convection between rotating coaxial disks, Int J Heat Mass Transfer 39(8) 1569-1583 (May 1996), 8A1104
Fourth-order nonlinear systems arising in combined free and forced convection flow of a second-order fluid, Int J Non-Linear Mech 31(2) 129-137 (Mar 1996), 10A1263
Radiation effect on mixed convection along a vertical plate with uniform surface temperature, Heat and Mass Transfer Warme 31(4) 243-248 (Apr 1996), 10A1264
Buoyancy and property variation effects in turbulent mixed convection of water in vertical tubes, J Heat Transfer 118(2) 381-387 (May 1996), 11A1130
Comparison of aiding and opposing mixed convection heat transfer in a vertical tube with Grashof number variation, Int J Heat Fluid Flow 17(2) 96-101 (Apr 1996), 11A1131
Mixed convection in straight and curved channels with buoyancy orthogonal to the forced flow, Int J Heat Mass Transfer 39(12) 2473-2484 (Aug 1996), 11A1132
Mixed convective conjugate heat transfer from a vertical flat plate, Z Angew Math Mech 76(5) 281-289 (1996), 11A1133
Modeling the local and average heat transfer coefficient for an isothermal vertical flat plate with assisting and opposing combined forced and natural convection, Int J Heat Mass Transfer 39(13) 2723-2733 (Sep 1996), 11A1134
Predicting the average heat transfer coefficient for an isothermal vertical circular disk with assisting and opposing combined forced and natural convection, Int J Heat Mass Transfer 39(13) 2843-2845 (Sep 1996), 11T1135
Aiding flows non-unique similarity solutions of mixed-convection boundary-layer equations, Z Angew Math Phys 47(3) 341-352 (May 1996), 12A1217
Developing combined convection in an eccentric annulus, Numer Heat Transfer A 29(7) 707-724 (May 1996), 12A1218

402H. Separated flows

Boundary-layer control by heat and mass transfer, Int J Heat Mass Transfer 38(17) 3209-3217 (Nov 1995), 2A1102
Numerical study of convective heat transfer from a blunt plate at low Reynolds number, Int J Heat Mass Transfer 39(1) 125-133 (Jan 1996), 3A1031
Effects of upstream wall heating on mixed convection in separated flows, J Thermophys Heat Transfer 9(4) 715-721 (Dec 1995), 3A1057
Effects of Dean vortex pairs on surface heat transfer in curved channel flow, Int J Heat Mass Transfer 39(1) 27-37 (Jan 1996), 3A1060
Influence of turbulence parameters, Reynolds number, and body shape on stagnation-region heat transfer, J Heat Transfer 117(3) 597-603 (Aug 1995), 3A1061
Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, Int J Heat Fluid Flow 16(5) 398-404 (Oct 1995), 5A1126
Buoyancy effects on the wake behind a heated obstacle immersed in a turbulent boundary layer, Int J Heat Fluid Flow 16(5) 405-416 (Oct 1995), 5A1136
Coherent vortices in thermally stratified and rotating turbulence, Int J Heat Fluid Flow 16(5) 315-326 (Oct 1995), 5A1137
Comparative evaluation of different turbulence models for confined impinging and opposing jet flows, Numer Heat Transfer A 28(6) 647-666 (Dec 1995), 5A1138
Embedded vortices in internal flow: Heat transfer and pressure loss enhancement, Int J Heat Fluid Flow 16(5) 376-388 (Oct 1995), 5A1139
Turbulent near-wall model on convective heat transfer from an abrupt expansion tube, Heat and Mass Transfer Warme 31(1-2) 33-40 (Dec 1995), 6A1073
Effect of large-scale periodic unsteadiness on heat transport in the downstream region of a junction boundary layer, Int J Heat Fluid Flow 17(1) 3-11 (Feb 1996), 8A945
Measurements in buoyancy-opposing laminar flow over a vertical forward-facing step, Int J Heat Mass Transfer 39(9) 1805-1813 (Jun 1996), 8A1068
Effects of multiple obstructions on conjugate forced convection heat transfer in tubes, Numer Heat Transfer A 29(3) 265-279 (Feb 1996), 8A1069
Effect of transverse convex curvature on heat transfer from heated cylinders with axisymmetric backward-facing steps, Int J Heat Mass Transfer 39(8) 1763-1767 (May 1996), 8T1100
Heat transfer and fluid mechanics measurements for the endwall boundary layer downstream of a streamlined strut, J Heat Transfer 118(2) 485-488 (May 1996), 11T1136
Heat transfer in separated and impinging turbulent flows, Int J Heat Mass Transfer 39(12) 2385-2400 (Aug 1996), 11A1137
High temperature heat transfer of separated flow over a sudden-expansion with base mass injection, Int J Heat Mass Transfer 39(11) 2293-2301 (Jul 1996), 11A1138
Thermal effect on the recirculation zone in sudden-expansion gas flows, Int J Heat Mass Transfer 39(13) 2619-2624 (Sep 1996), 11A1139
Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part I: Measurement of wake-affected heat transfer and wake-induced transition model, J Turbomachinery 118(2) 327-336 (Apr 1996), 11A1140
Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part II: Measurements of unsteady boundary layers and discussion, J Turbomachinery 118(2) 337-346 (Apr 1996), 11A1141
Flow and heat transfer measurements of a wall attaching offset jet, Int J Heat Mass Transfer 39(14) 2907-2913 (Sep 1996), 12A1226

402I. Rotating fluids or surfaces

Convective heat transfer in an annular fluid layer with centrifugal force field, Int J Numer Methods Heat & Fluid Flow 5(7) 601-614 (Sep 1995), 1A1207
Mixed convection around a heated rotating horizontal square cylinder in a circular enclosure, Numer Heat Transfer A 28(1) 1-18 (Jul 1995), 1A1208
Convection in Rotating Fluids - Fluid Mechanics and Its Applications Series (Kluwer, Netherlands, 1995) 2R50
Effect of a radial temperature gradient on the stability of Couette flow: Non-axisymmetric modes analysis, Int J Eng Sci 33(13) 1935-1941 (Oct 1995), 2A1103
Experimental investigation for fluid flow and heat transfer in a rotating tube with twisted-tape inserts, Heat Transfer Eng 16(2) 19-28 (Jun 1995), 2A1104
Natural convection in a rotating fluid layer with deformable free surface, Geophys Astrophys Fluid Dyn 80(1-2) 75-102 (Sep 1995), 3T1043
Three-dimensional convection driven by centrifugal buoyancy, J Fluid Mech 301 371-382 (Oct 1995), 4A1162
Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, Int J Heat Mass Transfer 39(3) 511-525 (Feb 1996), 4A1163
Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, J Turbomachinery 117(3) 461-473 (Jul 1995), 5A1140
Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, J Turbomachinery 117(3) 474-484 (Jul 1995), 5A1141
Influence of secondary flows near the endwall and boundary layer disturbance on convective transport from a turbine blade, J Turbomachinery 117(4) 657-665 (Oct 1995), 5A1142
Local heat transfer in a rotating two-pass ribbed triangular duct with two model orientations, Int J Heat Mass Transfer 39(4) 707-715 (Mar 1996), 5A1143
Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, Numer Heat Transfer A 28(6) 667-685 (Dec 1995), 5A1144
Numerical study of steady laminar fully developed fluid flow and heat transfer in rectangular and elliptical ducts rotating about a parallel axis, Int J Heat Mass Transfer 39(4) 867-875 (Mar 1996), 5A1145
Surface heat transfer from a three-pass blade cooling passage simulator, J Turbomachinery 117(4) 650-656 (Oct 1995), 5A1146
Heat transfer in high-viscosity non-Newtonian fluids in rotating flows, Heat Transfer Res 25(7) 857-861 (1993), 5A1148
Transient 3D convection of air in a differentially heated rotating cubic cavity, Int J Heat Mass Transfer 39(6) 1243-1255 (Apr 1996), 7A1221
Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, Numer Heat Transfer A 29(4) 397-415 (Mar 1996), 8A1098
Convective heat transfer of rotating spheres and spheroids with non-uniform surface temperatures, Int J Heat Mass Transfer 39(9) 1815-1826 (Jun 1996), 8A1101
Convective heat transfer of rotating spheres and spheroids with nonuniform surface temperatures, Int J Heat Mass Transfer 39(9) 1815-1826 (Jun 1996), 8A1102
Experimental studies and correlations of radially-outward and inward air-flow heat transfer in a rotating square duct, J Heat Transfer 118(1) 23-30 (Feb 1996), 8A1103
Theoretical analysis for axisymmetric mixed convection between rotating coaxial disks, Int J Heat Mass Transfer 39(8) 1569-1583 (May 1996), 8A1104
Unsteady heat transfer in a liquid film on a rotating disk, Arch Mech 47(6) 1113-1124 (1995), 9A1254
Estimation of convective heat transfer coefficients in industrial steam turbines, J Pressure Vessel Tech 118(2) 247-250 (May 1996), 10T1265
Influence of surface topography on rotating convection, J Fluid Mech 313 147-180 (Apr 1996), 11A891
Convective heat transfer in rotating ribbed tubes, Int J Heat Mass Transfer 39(11) 2253-2266 (Jul 1996), 11A1142
Prediction of turbulent heat transfer in rotating smooth square ducts, Int J Heat Mass Transfer 39(12) 2505-2514 (Aug 1996), 11A1143

402J. Low density flows

Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, Numer Heat Transfer A 28(6) 667-685 (Dec 1995), 5A1144

Turbulent buoyant thermal in a density-stratified atmosphere, Int J Heat Mass Transfer 39(7) 1453-1462 (May 1996), 7A1222

402K. High speed flows

Numerical model of the hydrodynamics of the thermal bar, J Fluid Mech 303 279-295 (Nov 1995), 4A1174

Heat Transfer in Turbulent Flows, HTD-Vol 318 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N32

402L. Non-Newtonian flows

Natural convection of micropolar fluids in a 2D enclosure with a conductive partition, Numer Heat Transfer A 28(1) 69-83 (Jul 1995), 1A1190

Computation of 2D and 3D unsteady thermal non-Newtonian flows, Int J Numer Methods Heat & Fluid Flow 5(6) 495-510 (Aug 1995), 1A1209

Heat transfer in flows of non-Newtonian Bingham fluids through axisymmetric sudden expansions and contractions, Numer Heat Transfer A 28(3) 339-353 (Sep 1995), 1A1210

Simulation of the melt front advancement in injection molded plate with a rib of semicircular cross section, Numer Heat Transfer A 28(1) 121-129 (Jul 1995), 1A1211

Numerical simulation and experimental verification of melt front advancements in coinjection molding process, Numer Heat Transfer A 28(4) 503-513 (Oct 1995), 3A905

Numerical studies of non-Newtonian channel flow and heat transfer enhancement for electronics modules, J Electron Packaging 117(3) 246-249 (Sep 1995), 3T1062

Viscous dissipation in non-Newtonian flows: Implications for the Nusselt number, J Thermophys Heat Transfer 9(4) 733-742 (Dec 1995), 3A1063

Rheological factors in a thermal problem of local superhigh frequency hyperthermia, Int J Heat Mass Transfer 39(3) 645-652 (Feb 1996), 4A1164

Heat transfer in pulsating flow of a liquid with internal heat sources, Heat Transfer Res 25(7) 879-883 (1993), 5A1128

Nonsimilar mixed convection flow of a non-Newtonian fluid past a vertical wedge, Acta Mech 113(1-4) 205-213 (1995), 5A1135

Free convective heat and mass transfer in processing polymer materials, Heat Transfer Res 25(7) 888-893 (1993), 5A1147

Heat transfer in high-viscosity non-Newtonian fluids in rotating flows, Heat Transfer Res 25(7) 857-861 (1993), 5A1148

Nonisothermal effects in the motion of non-Newtonian media with slip at the wall, Heat Transfer Res 25(7) 862-866 (1993), 5A1149

Thermal and hydrodynamic characteristics of enforced flows of thixotropic liquids in long ducts, Heat Transfer Res 25(7) 867-871 (1993), 5A1150

Transient natural convection heat transfer in non-Newtonian second order fluids, J Thoor Appl Mech 34(1) 129-142 (1996), 6A1093

Mixed-convection in flows of viscoelastic liquids: A parametric study, J Brazilian Soc Mech Sci 17(3) 331-340 (1995), 7A1219

Heat transfer behavior of Reiner-Rivlin fluids in rectangular ducts, Int J Heat Mass Transfer 39(6) 1317-1324 (Apr 1996), 7A1223

Mixed convection in an axisymmetric stagnation flow of micropolar fluid on a vertical cylinder, Acta Mech 114(1-4) 139-149 (1996), 8A1095

Creeping flow of a Bingham plastic through axisymmetric sudden contractions with viscous dissipation, Int J Heat Mass Transfer 39(8) 1555-1567 (May 1996), 8A1105

Natural convection of micropolar fluids in a rectangular enclosure, Int J Eng Sci 34(4) 407-415 (Mar 1996), 9A1255

Nonisothermal pulsating flow of a viscoelastic fluid, Heat Transfer Res 25(8) 980-982 (1993), 10A1266

Thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct, Heat and Mass Transfer Warme 31(4) 257-267 (Apr 1996), 10A1267

Natural convection of non-Newtonian fluids along a wavy vertical plate including the magnetic field effect, Int J Heat Mass Transfer 39(13) 2831-2842 (Sep 1996), 11A1144

Note on magnetoconvection in a vertical enclosure, Int J Non-Linear Mech 31(3) 371-376 (May 1996), 11A1145

Polymer melt flow and gas penetration in gas-assisted injection molding of a thin part with gas channel design, Int J Heat Mass Transfer 39(14) 2957-2968 (Sep 1996), 12A1219

402M. Liquid metal flows

Convection in ^{3}He-superfluid-^{4}He mixtures - Part 1: A Boussinesq analogue, J Fluid Mech 307 269-296 (Jan 1996), 7A1211

Numerical analysis of fully penetrated weld pools in gas tungsten arc welding, Proc Inst Mech Eng C 210(C2) 187-195 (1996), 11A836

402N. Chemical reactions

Noncquilibrium boundary-layer effects on the aerodynamic heating of hypersonic waverider vehicles, J Thermophys Heat Transfer 9(4) 595-604 (Dec 1995), 3A1064

Studies on molecular diffusion and natural convection in a multicomponent gas system, Int J Heat Mass Transfer 39(3) 527-536 (Feb 1996), 4A1165

Thermophoretic deposition including an application to the outside vapor deposition process, Int J Heat Mass Transfer 39(7) 1429-1438 (May 1996), 7A1299

402O. Unsteady flows

Natural convection in a side-heated cavity: Visualization of the initial flow features, J Fluid Mech 295 357-379 (Jul 1995), 1A1189

Convective flows under the influence of high-frequency vibrations, Eur J Mech B 14(4) 439-458 (1995), 1A1195

Flow and heat transfer due to a suddenly stopped and cooled plate, Acta Mech 112(1-4) 107-116 (1995), 3A1065

Heat transfer from a cylinder in an acoustic standing wave, J Acoust Soc Am 98(4) 2209-2216 (Dec 1995), 3A1066

Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, J Thermophys Heat Transfer 9(4) 702-707 (Dec 1995), 3A1067

Transient thermal performance of a radially diluted and centrally cooled nuclear fuel cell, Numer Heat Transfer A 28(6) 687-705 (Dec 1995), 5A1151

Finite difference analysis of unsteady natural convection flow along an inclined plate with variable surface temperature and mass diffusion, Heat and Mass Transfer Warme 31(1-2) 17-24 (Dec 1995), 6A1076

Heat transfer transients in stagnation flows due to changes in flow velocity, J Thermophys Heat Transfer 10(1) 186-189 (Mar 1996), 6T1094

Transient natural convection between concentric and vertically eccentric spheres with mixed boundary conditions, Heat and Mass Transfer Warme 31(3) 137-143 (Feb 1996), 8A1083

Statistical saturation of buoyant flow induced by a fluctuating acceleration, AIAA J 34(5) 975-981 (May 1996), 10A1259

Bulk flow pulsations and film cooling - I: Injectant behavior, Int J Heat Mass Transfer 39(11) 2271-2282 (Jul 1996), 11A1146

Bulk flow pulsations and film cooling - II: Flow structure and film effectiveness, Int J Heat Mass Transfer 39(11) 2283-2292 (Jul 1996), 11A1147

Unsteady flow and heat transfer in a channel with a built-in tandem of rectangular cylinders, Numer Heat Transfer A 29(6) 613-623 (May 1996), 11A1148

402P. Transport mechanisms

Coupled FDM-BEM solution for the conjugate heat transfer problem, Numer Heat Transfer B 28(2) 139-154 (Sep 1995), 1A1212

Generalized integral forms for friction, heat, and mass transfer coefficients, Int J Heat Mass Transfer 38(16) 3103-3108 (Nov 1995), 1A1213

Numerical study of coupled turbulent flow and solidification for steel slab casters, Numer Heat Transfer A 28(3) 279-297 (Sep 1995), 1A1214

PHASES model for binary-constituent solid-liquid phase transition - Part 1: Numerical method, Numer Heat Transfer B 28(2) 111-126 (Sep 1995), 1A1215

PHASES model for binary-constituent solid-liquid phase transition - Part 2: Applications, Numer Heat Transfer B 28(2) 127-137 (Sep 1995), 1A1216

Simulation of ice cover melting in turbulent flow, Int J Numer Methods Heat & Fluid Flow 5(7) 647-663 (Sep 1995), 1A1217

Numerical study of the combined effects of microsegregation, mushy zone permeability and flow, caused by volume contraction and thermosolutal convection, on macrosegregation and eutectic formation in binary alloy solidification, Int J Heat Mass Transfer 38(18) 3455-3473 (Dec 1995), 2A1105

Effect of turbulence on solidification of a binary metal alloy with electromagnetic stirring, J Heat Transfer 117(3) 716-724 (Aug 1995), 3A1195

Semi-analytical solution of thermal energy storage system with conjugate laminar forced convection, Int J Heat Mass Transfer 39(4) 717-724 (Mar 1996), 5A1184

Numerical and experimental investigation of direct electric conduction in a channel flow, Int J Heat Mass Transfer 39(5) 975-993 (Mar 1996), 6A1095

Numerical study on utilization of melting of phase change material for cooling of a heated surface at a constant rate, Numer Heat Transfer A 29(1) 19-31 (Jan 1996), 6A1096

Oscillatory flow convection in a melted pool, Int J Numer Methods Heat & Fluid Flow 6(1) 13-20 (Jan 1996), 6A1097

Mathematical modeling and experimental measurements of moving boundary problems associated with exothermic heat of mixing, Int J Heat Mass Transfer 39(5) 1005-1021 (Mar 1996), 6A1186

PC-Aided Numerical Heat Transfer and Convective Flow (CRC Press, Boca Raton FL, 1995) 7R28

Effect of growth atmosphere on convection in $LiTaO_3$ melt, J Mat Processing Manuf Sci 4(1) 41-44 (Jul 1995), 7A1224

Numerical investigation of heat flow and interfaces in the vertical zono-melting crystal growth, Numer Heat Transfer A 29(2) 131-146 (Feb 1996), 7A1225

Numerical investigation of melting processes affected by natural convection, J Mat Processing Manuf Sci 4(1) 69-78 (Jul 1995), 7A1226

Numerical prediction of fluid flow and heat transfer in welding with a moving heat source, Numer Heat Transfer A 29(2) 115-129 (Feb 1996), 7A1227

Study of flow, heat transfer and particle deposition during the modified chemical vapor deposition process, J Mat Processing Manuf Sci 4(1) 3-16 (Jul 1995), 7A1228

Evidence of a convective instability allowing warm water to freeze in less time than cold water, J Heat Transfer 118(1) 65-72 (Feb 1996), 8A1085

Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, Int J Heat Mass Transfer 39(9) 1883-1897 (Jun 1996), 8A1106

Effects of heating mode on steady axisymmetric thermocapillary flows in microgravity, J Heat Transfer 118(1) 191-197 (Feb 1996), 8A1107

Material-air composite cell, Int J Heat Mass Transfer 39(9) 1785-1795 (Jun 1996), 8A1108

Thermal protection characteristics of a vertical rectangular cell filled with PCM-air layer, Heat and Mass Transfer Warme 31(3) 191-198 (Feb 1996), 8A1109

Infiltration and solidification-remelting of a pure metal in a 2D porous preform, J Heat Transfer 118(1) 173-180 (Feb 1996), 8A1112

Optimal interface for the Bridgman crystallization process, Numer Heat Transfer A 29(3) 227-242 (Feb 1996), 8A1116

Transport phenomena in picoliter size solder droplet dispension, J Heat Transfer 118(1) 148-156 (Feb 1996), 8A1117

Transport Phenomena in Thermal Engineering - Proc of 6th Int Symp, Seoul, Korea (Begell House, New York, 1995) 9N29

Flow and transport in a multilayered fluid system - I: Influence of 1- or μ-g environment, Int J Heat Mass Transfer 39(13) 2751-2770 (Sep 1996), 11A1149

Flow and transport in a multilayered fluid system - II: Influence of thermal boundary conditions and encapsulant, Int J Heat Mass Transfer 39(13) 2846-2852 (Sep 1996), 11T1150

Pore formation in hot spots, Int J Heat Mass Transfer 39(14) 2861-2867 (Sep 1996), 12A1220

402S. Porous media

Forced convection past a slender body in a saturated porous medium, SIAM J Appl Math 55(4) 975-985 (Aug 1995), 1A1166

Numerical simulation of supercritical Hadley circulation, within a porous layer, induced by inclined temperature gradients, Int J Heat Mass Transfer 38(14) 2583-2593 (Sep 1995), 1A1198

Low or high Peclet number flow past a prolate spheroid in a saturated porous medium, SIAM J Appl Math 55(4) 952-974 (Aug 1995), 1A1202

Convective heat transfer in an annular porous layer with centrifugal force field, Numer Heat Transfer A 28(3) 375-388 (Sep 1995), 1A1218

Numerical study of transient natural convection about a corrugated plate embedded in an enclosed porous medium, Int J Numer Methods Heat & Fluid Flow 5(7) 629-645 (Sep 1995), 1A1219

Simultaneous heat and mass transfer in packed bed catalytic reactors, J Thermophys Heat Transfer 9(3) 524-530 (Sep 1995), 1A1220

Effect of anisotropic permeability on free convective boundary layer flow in porous media, Transport Porous Media 19(1) 79-92 (Apr 1995), 1A1370

Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, Int J Heat Mass Transfer 38(16) 2935-2943 (Nov 1995), 1A1373

Conjugate free convection from a horizontal surface in a porous medium, Z Angew Math Mech 75(9) 715-722 (1995), 2A1090

Nonlinear stability of convection induced by inclined thermal and solutal gradients, Z Angew Math Phys 46(5) 645-654 (Sep 1995), 2A1097

Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium, Mech Res Commun 22(5) 503-510 (Oct 1995), 2T1099

Influence of surface mass flux on vortex instability of a horizontal mixed convection flow in a saturated porous medium, Int J Heat Mass Transfer 38(17) 3305-3311 (Nov 1995), 2A1106

Thermal convection in micropolar fluids in porous medium, Int J Eng Sci 33(13) 1887-1892 (Oct 1995), 2A1107

Heat and mass transfer with condensation in a fibrous insulation slab bounded on one side by a cold surface, Int J Heat Mass Transfer 38(17) 3253-3262 (Nov 1995), 2A1169

Analytical solution for heating a 2D porous-packed bed by a non-thermal equilibrium fluid flow, Appl Sci Res 55(1) 83-93 (Jul 1995), 3A1068

Analytical solution for transient laminar fully developed free convection in open-ended vertical concentric porous annuli, J Heat Transfer 117(3) 762-764 (Aug 1995), 3T1069

Early initiation of natural convection in an open porous layer due to the presence of solid conductive inclusions, J Heat Transfer 117(3) 733-739 (Aug 1995), 3A1070

Free convection heat transfer of non-Newtonian fluids over axisymmetric and 2D bodies of arbitary shape embedded in a fluid-saturated porous medium, Int J Heat Mass Transfer 39(1) 203-210 (Jan 1996), 3A1071

Free convection in a horizontal enclosure partly filled with a porous medium, J Thermophys Heat Transfer 9(4) 797-800 (Dec 1995), 3T1072

Investigation of non-Darcian forced convection in an asymmetrically heated sintered porous channel, J Heat Transfer 117(3) 725-732 (Aug 1995), 3A1073

Natural convection in horizontal-layered porous annuli, J Thermophys Heat Transfer 9(4) 792-795 (Dec 1995), 3T1074

Comparative study of porous media models in a differentially heated square cavity using a FEM, Int J Numer Methods Heat & Fluid Flow 5(8) 735-752 (Oct 1995), 3A1266

Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, Int J Heat Mass Transfer 39(3) 615-630 (Feb 1996), 4A1166

Convective heat transfer in axisymmetric porous bodies, Int J Numer Methods Heat & Fluid Flow 5(9) 829-837 (Nov 1995), 4A1167

Convective heat transfer in porous and overlying fluid layers heated from below, Int J Heat Mass Transfer 39(2) 319-329 (Jan 1996), 4A1168

Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, Int J Heat Mass Transfer 39(2) 347-354 (Jan 1996), 4A1169

Heat transfer from a hot rock to water flowing through a crack, Heat Transfer Japan Res 23(7) 658-673 (1994), 4A1170

Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, Numer Heat Transfer A 28(5) 635-645 (Nov 1995), 4A1171

Transient natural convection of water near its density extremum in a rectangular cavity filled with porous medium, Numer Heat Transfer A 28(5) 619-633 (Nov 1995), 4A1172

Non-Darcy natural convection from a vertical wavy surface in a porous medium, Transport Porous Media 20(3) 223-234 (Sep 1995), 4A1316

Local multigrid refinement method for natural convection in fissured porous media, Numer Heat Transfer B 28(4) 455-467 (Dec 1995), 5A1152

Mixed convection in a vertical tube partially filled with porous medium, Numer Heat Transfer A 28(6) 739-754 (Dec 1995), 5A1153

Non-Darcian forced convection analysis in an annulus partially filled with a porous material, Numer Heat Transfer A 28(6) 707-722 (Dec 1995), 5A1154

Convective heat exchange and thermomechanics of cooling laser mirrors, Heat Transfer Res 25(7) 884-887 (1993), 5A1157

Forced convection from an isolated heat source in a channel with porous medium, Int J Heat Fluid Flow 16(6) 527-535 (Dec 1995), 6A1098

Natural convection suppression by azimuthal partitions in a horizontal porous annulus, Numer Heat Transfer A 29(1) 65-18 (Jan 1996), 6A1099

ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, Numer Heat Transfer B 29(1) 91-112 (Feb 1996), 6A1104

PC-Aided Numerical Heat Transfer and Convective Flow (CRC Press, Boca Raton FL, 1995) 7R28

Amplitude effect on convection induced by time-periodic horizontal heating, Int J Heat Mass Transfer 39(6) 1121-1133 (Apr 1996), 7A1209

Mixed convection from a vertical cylinder embedded in a porous medium: Non-Darcy model, Int J Heat Mass Transfer 39(6) 1141-1148 (Apr 1996), 7A1229

Mixed convection in a vertical parallel-plate channel partially filled with porous media of high permeability, Int J Heat Mass Transfer 39(7) 1331-1342 (May 1996), 7A1230
Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, Int J Heat Mass Transfer 39(7) 1363-1378 (May 1996), 7A1231
Non-Darcy mixed convection along nonisothermal vertical surfaces in porous media, Int J Heat Mass Transfer 39(6) 1157-1164 (Apr 1996), 7A1363
Convection and stability in rotating porous layer with alternating direction of the centrifugal body force, Int J Heat Mass Transfer 39(8) 1639-1647 (May 1996), 8A1084
Buoyancy- and pressure-driven motion in a vertical porous layer: Effects of quadratic drag, Appl Sci Res 55(2) 141-154 (Sep 1995), 8A1088
Analysis of free surface momentum and energy transport in porous media, Numer Heat Transfer A 29(3) 281-296 (Feb 1996), 8A1110
Effect of an electromagnetic field on natural convection in an inclined porous layer, Int J Heat Fluid Flow 17(1) 36-44 (Feb 1996), 8A1111
Infiltration and solidification-remelting of a pure metal in a 2D porous preform, J Heat Transfer 118(1) 173-180 (Feb 1996), 8A1112
Influence of morphology upon two-temperature statements for convective transport in porous media, J Enhanced Heat Transfer 3(2) 129-145 (1996), 8A1113
Stochastic modeling of heating of a 1D porous slab by a flow of incompressible fluid, Acta Mech 114(1-4) 39-50 (1996), 8A1114
Analysis of heating a 3D porous bed utilizing the two energy equation model, Heat and Mass Transfer Warme 31(3) 173-177 (Feb 1996), 8A1317
Closure statements on the Brinkman-Forchheimer-extended Darcy model, Int J Heat Fluid Flow 17(1) 34-35 (Feb 1996), 8A1318
Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, Heat Transfer Japan Res 24(1) 45-56 (1995), 9A1253
Diffuse approximation method for solving natural convection in porous media, Transport Porous Media 22(2) 215-223 (Feb 1996), 9A1370
Natural convection from a vertical plate with a prescribed surface heat flux in porous media, Transport Porous Media 22(2) 181-193 (Feb 1996), 9A1372
Convective heat transfer from a horizontal cylinder in a porous medium and a narrow slot, Heat Transfer Res 25(8) 970-974 (1993), 10A1268
Heat transfer analysis in a heated mold during the impregnation phase of the resin transfer molding process, J Mat Processing Manuf Sci 4(2) 81-104 (Oct 1995), 10A1269
Thermal and hydraulic characteristics of microchannel porous structures, Heat Transfer Res 25(8) 945-949 (1993), 10A1270
Thermal convection in anisotropic porous insulation, Heat Transfer Res 25(8) 986-990 (1993), 10A1271
Thermal enhancement in laminar channel flow with a porous block, Int J Heat Mass Transfer 39(10) 2165-2175 (Jul 1996), 10A1272
Effect of an external magnetic field on buoyancy-driven flow in a shallow porous cavity, Numer Heat Transfer A 29(6) 625-638 (May 1996), 11A1151
Enhanced heat transfer in round tubes with porous inserts, Int J Heat Fluid Flow 17(2) 124-129 (Apr 1996), 11A1152
Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, Int J Heat Mass Transfer 39(12) 2545-2557 (Aug 1996), 11A1153
Fully-developed forced-convection heat transfer in cylindrical packed beds with constant wall heat fluxes, JSME Int J Ser B 39(2) 395-401 (May 1996), 11T1154
Natural convection for the melting of ice in porous media in a rectangular enclosure, Int J Heat Mass Transfer 39(11) 2333-2348 (Jul 1996), 11A1155
Non-Darcy effects in natural convection heat transfer in a vertical porous annulus, J Heat Transfer 118(2) 502-505 (May 1996), 11T1156
Perturbation solution for a nonthermal equilibrium fluid flow through a 3D sensible heat storage packed bed, J Heat Transfer 118(2) 508-510 (May 1996), 11T1157
Stability of free convection in a rotating porous layer distant from the axis of rotation, Transport Porous Media 23(2) 153-173 (May 1996), 11A1333
Turbulence model for flow through porous media, Int J Heat Mass Transfer 39(13) 2803-2809 (Sep 1996), 11A1334
Stagnation point flow of a chemically reactive fluid in a catalytic porous bed, Int J Heat Mass Transfer 39(14) 3003-3019 (Sep 1996), 12A1348

402Y. Computational techniques

Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995 (Comput Mech, Billerica MA, 1995) 1N35
Evolution-Galerkin methods and their supraconvergence, Numer Math 71(3) 331-355 (Sep 1995), 1A57
Evaluation of a higher-order bounded convection scheme: 3D numerical experiments, Numer Heat Transfer B 28(1) 23-38 (Aug 1995), 1A1221
Hybrid numerical method for Navier-Stokes equations based on simple algorithm, Numer Heat Transfer B 28(2) 155-170 (Sep 1995), 1A1222
Modified collocated SIMPLEC algorithm applied to buoyancy-affected turbulent flow using a multigrid solution procedure, Numer Heat Transfer B 28(1) 39-57 (Aug 1995), 1A1223
Numerical method for coupled fluid flow, heat transfer and stress analysis using unstructured moving meshes with cells of arbitrary topology, Comput Methods Appl Mech Eng 125(1-4) 235-255 (Sep 1995), 1A1224
Numerical study of the turbulent heat transfer in a motorized engine utilizing a two-boundary method-grid generation technique, Numer Heat Transfer A 28(2) 215-230 (Aug 1995), 1A1225
Streamfunction-vorticity-based FE formulation for laminar-convection problems, Numer Heat Transfer B 28(1) 1-22 (Aug 1995), 1A1226
Transient solutions by a least-squares FEM and Jacobi conjugate gradient technique, Numer Heat Transfer B 28(2) 183-198 (Sep 1995), 1A1227
Finite element analysis of triangular fins attached to a thick wall, Comput Struct 57(6) 945-957 (Dec 1995), 2A1108
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1 (ASME Press, New York, 1995) 3N32
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2 (ASME Press, New York, 1995) 3N33
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3 (ASME Press, New York, 1995) 3N34
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 4 (ASME Press, New York, 1995) 3N35
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5 (ASME Press, New York, 1995) 3N36
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 6 (ASME Press, New York, 1995) 3N37
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 7 (ASME Press, New York, 1995) 3N38
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 8 (ASME Press, New York, 1995) 3N39
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9 (ASME Press, New York, 1995) 3N40
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10 (ASME Press, New York, 1995) 3N41
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11 (ASME Press, New York, 1995) 3N42
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12 (ASME Press, New York, 1995) 3N43
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13 (ASME Press, New York, 1995) 3N44
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14 (ASME Press, New York, 1995) 3N45
Adaptive FEM for mixed convection, J Thermophys Heat Transfer 9(4) 708-714 (Dec 1995), 3A1053
Application of the diffuse approximation for solving fluid flow and heat transfer problems, Int J Heat Mass Transfer 39(1) 214-218 (Jan 1996), 3T1075
Comparison of different k-ε models for indoor air flow computations, Numer Heat Transfer B 28(3) 353-369 (Nov 1995), 4A1173
Numerical model of the hydrodynamics of the thermal bar, J Fluid Mech 303 279-295 (Nov 1995), 4A1174
Numerical solution for the inverse natural-convection problem, Numer Heat Transfer B 28(3) 307-321 (Nov 1995), 4A1175
New numerical scheme for convective dominated heat transfer in a porous medium with strong temperature gradients, Transport Porous Media 21(2) 101-122 (Nov 1995), 4A1320
Numerical simulation of free convective flow using the lattice-Boltzmann scheme, Int J Heat Fluid Flow 16(5) 357-364 (Oct 1995), 5A1130
Block correction-aided, strongly implicit procedure to treat simultaneous linear equations arising from implicit discretization of 3D field equations, Numer Heat Transfer B 28(4) 371-384 (Dec 1995), 5A1155
Time marching BEM for 2D incompressible thermally coupled flows, Comput Methods Appl Mech Eng 128(1-2) 11-23 (Dec 1995), 5A1156
Computational fluid dynamics applied to internal gas-turbine blade cooling: A review, Int J Heat Fluid Flow 16(6) 454-470 (Dec 1995), 6A1100
Convection treatment and pressure splitting for sequential solution procedures - Part I: Theory and 1D test cases, Numer Heat Transfer B 29(1) 1-27 (Feb 1996), 6A1101
Convection treatment and pressure splitting for sequential solution procedures - Part II: Pressure-based algorithm, Numer Heat Transfer B 29(1) 29-42 (Feb 1996), 6A1102
Spectral multidomain technique for the computation of the Czochralski melt configuration, Int J Numer Methods Heat & Fluid Flow 6(1) 31-58 (Jan 1996), 6A1103
ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, Numer Heat Transfer B 29(1) 91-112 (Feb 1996), 6A1104
Inverse Thermal Problems (Comput Mech, Billerica MA, 1995) 7R27
Convection treatment using spectral elements of different order, Int J Numer Methods Fluids 22(4) 241-264 (Feb 1996), 7A63
Higher order penalty-Galerkin FE approach to laminar natural convection in a square cavity, Numer Heat Transfer A 29(2) 197-210 (Feb 1996), 7A1212
Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, Heat Transfer Japan Res 23(8) 675-692 (1994), 7A1277
Incompressible computational fluid dynamics and the continuity-constraint method for the 3D Navier-Stokes equations, Numer Heat Transfer B 29(2) 137-237 (Mar 1996), 8A909
Laminar flow and forced convection heat transfer in plate-type monolith structures by a FE solution, Int J Heat Mass Transfer 39(9) 1963-1978 (Jun 1996), 8A1073
Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, Heat and Mass Transfer Warme 31(3) 127-135 (Feb 1996), 8A1076
Finite element analysis of laminar-mixed convection in the entrance region of horizontal annular ducts, Numer Heat Transfer A 29(3) 313-330 (Feb 1996), 8A1091
Numerical simulations of mixing in a 2D periodic flow with buoyancy, Comput Fluids 25(2) 151-163 (Feb 1996), 8A1097
Numerical modeling of variable density turbulent jets, Int J Heat Mass Transfer 39(9) 1865-1882 (Jun 1996), 8A1115
Optimal interface for the Bridgman crystallization process, Numer Heat Transfer A 29(3) 227-242 (Feb 1996), 8A1116
Transport phenomena in picoliter size solder droplet dispension, J Heat Transfer 118(1) 148-156 (Feb 1996), 8A1117
Transient free convection flow of an elastoviscous fluid past an infinite vertical plate, Eng Trans 43(3) 487-491 (1995), 9A1256
Extreme Methods for Solving Ill-Posed Problems with Applications to Inverse Heat Transfer Problems (Begell House, New York, 1995) 10R32
Revisit to the modified multiple 1D adaptive grid method, Numer Heat Transfer B 29(3) 305-323 (May 1996), 10A48
Steady-state numerical solution of the Navier-Stokes and energy equations around a horizontal cylinder at moderate Reynolds numbers from 100 to 500, Heat Transfer Eng 17(1) 31-81 (Mar 1996), 10A1246
Accuracy and nonuniqueness aspects of numerical solutions of some natural convection problems, Appl Math Model 20(5) 371-378 (May 1996), 10A1260
Literature survey on numerical heat transfer: 1992-1993, Numer Heat Transfer A 29(5) 441-484 (Apr 1996), 10A1273
Modeling heat transfer in chemical microsensors, Int J Eng Sci 34(5) 523-530 (Apr 1996), 10A1274
Monotone multidimensional upwind FEM for advection-diffusion problems, Numer Heat Transfer B 29(3) 325-344 (May 1996), 10A1275
Application of moving grid control volume FEM to ablation problems, J Thermophys Heat Transfer 10(2) 312-319 (Jun 1996), 10A1353
Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 11N45
Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, Int J Heat Fluid Flow 17(2) 155-166 (Apr 1996), 11A1070
Effect of time marching schemes on predictions of oscillatory natural convection in fluids of low Prandtl number, Numer Heat Transfer A 29(6) 575-597 (May 1996), 11A1158
Use of the elementary heat balance technique in temperature field calculations, Russian Aeronaut 38(3) 95-98 (1995), 11A1204
Energy balances in CVFEM and GFEM formulations of convection-type problems, Int J Numer Methods Eng 39(13) 2249-2263 (Jul 1996), 12A1221
Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part I: Theoretical considerations, Numer Heat Transfer B 29(4) 479-490 (Jun 1996), 12A1222
Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part II: Validation and applications, Numer Heat Transfer B 29(4) 491-508 (Jun 1996), 12A1223
Numerical algorithm using multizone adaptive grid generation for multiphase transport processes with moving and free boundaries, Numer Heat Transfer B 29(4) 399-421 (Jun 1996), 12A1224
Three-dimensional fluid flow and heat transfer analysis of grate blocks in a waste-to-energy power plant, Numer Heat Transfer A 29(8) 795-808 (Jun 1996), 12A1225
Determination of the fixed bed wall heat transfer coefficient using computational fluid dynamics, Numer Heat Transfer A 29(8) 777-794 (Jun 1996), 12A1256

402Z. Experimental techniques

Improvement of finite-analytic discretization of incompressible 3D Navier-Stokes equations, Numer Heat Transfer B 28(2) 171-182 (Sep 1995), 1A1012
Numerical analysis of higher order harmonics in the response of a mass transfer probe, Int J Heat Mass Transfer 38(14) 2667-2675 (Sep 1995), 1A1304
Determination of the diffusion coefficients of iron and chromium in Pb-17Li, Int J Heat Mass Transfer 38(16) 3085-3090 (Nov 1995), 1A1310
Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, J Thermophys Heat Transfer 9(4) 605-611 (Dec 1995), 3A1076
Sensor cooling by direct blowdown of a coolant, J Thermophys Heat Transfer 9(4) 766-770 (Dec 1995), 3A1077
Shroud technique using the transient method for local heat transfer measurements, Exp Heat Transfer 8(2) 161-173 (Jun 1995), 4A1176
Heat transfer measurements in an annular cascade of transonic gas turbine blades using the transient liquid crystal technique, J Turbomachinery 117(3) 425-431 (Jul 1995), 5A1080
Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, J Turbomachinery 117(3) 432-439 (Jul 1995), 5A1081
Convective heat exchange and thermomechanics of cooling laser mirrors, Heat Transfer Res 25(7) 884-887 (1993), 5A1157
Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part I: Within holes and on the back surface, J Turbomachinery 117(3) 440-450 (Jul 1995), 5A1158
Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part II: On the exposed surface, J Turbomachinery 117(3) 451-460 (Jul 1995), 5A1159
Liquid crystal methods for studying turbulent heat transfer, Int J Heat Fluid Flow 16(5) 365-375 (Oct 1995), 5A1160
Three-dimensional particle-tracking velocimetry measurement of turbulence statistics and energy budget in a backward-facing step flow, Int J Heat Fluid Flow 16(6) 477-485 (Dec 1995), 6A1002
Note on thermocouple measurements for laminar-turbulent transition phenomena in pipe flow, Exp Heat Transfer 8(3) 209-228 (Sep 1995), 6A1105
Numerical near-wall corrections of single hot-wire measurements, Int J Heat Fluid Flow 16(6) 471-476 (Dec 1995), 6A1106
Convective heat transfer coefficients at a plane surface on a full-scale building facade, Int J Heat Mass Transfer 39(8) 1729-1742 (May 1996), 8A1118
Influence of heat conduction on determination of heat transfer coefficient by liquid crystal thermography, Exp Heat Transfer 8(4) 271-279 (Dec 1995), 8A1119
Rotating facility to study heat transfer in the cooling passages of turbine rotor blades, Proc Inst Mech Eng A 210(A1) 55-63 (1996), 8A1120
Simultaneous measurement of surface temperature and heat flux using a composite slab, Exp Heat Transfer 8(4) 281-292 (Dec 1995), 8A1121
Temperature measurement during high-intensity laser-liquid interactions, Exp Heat Transfer 8(4) 241-255 (Dec 1995), 8A1122
Effect of turbulence on heat transfer in stagnation flow, J Thermophys Heat Transfer 10(2) 290-296 (Jun 1996), 10A1178
Detailed measurements of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, J Turbomachinery 118(2) 285-290 (Apr 1996), 11A1159
Evaluating convective heat transfer coefficients using neural networks, Int J Heat Mass Transfer 39(11) 2329-2332 (Jul 1996), 11A1160
Flow and heat transfer measurements of a wall attaching offset jet, Int J Heat Mass Transfer 39(14) 2907-2913 (Sep 1996), 12A1226
Measurements of local heat transfer coefficients from a flat plate to a pair of circular air impinging jets, Exp Heat Transfer 9(1) 29-47 (Mar 1996), 12A1227

404. TWO PHASE CONVECTION

404B. Nucleate pool boiling

Pool boiling heat transfer coefficients for binary mixtures of acetone, isopropanol, and water, Heat Transfer Eng 16(1) 36-43 (Mar 1995), 1A1228
Heat transfer to emulsion with a low-boiling disperse phase, Heat Transfer Res 25(6) 786-789 (1993), 1A1282
Issues in CHF modeling - The need for new experiments, J Heat Transfer 117(3) 558-567 (Aug 1995), 3A1078
Laser doppler anemometry measurements of bubble rise velocity and departure frequency, Exp Heat Transfer 8(2) 145-160 (Jun 1995), 4A1195
Boiling of droplets on a hot surface in low gravity, Int J Heat Mass Transfer 39(7) 1379-1393 (May 1996), 7A1232
Homogeneous nucleation of a solid-solid dilatational phase transformation, Int J Solids Struct 33(13) 1903-1919 (May 1996), 8A508
Comprehensive evaluation and prediction and enhancement of boiling heat transfer with additives (Chinese), J Dalian Univ Tech 35(2) 145-150 (Apr 1995), 8A1123
Transient heat transfer from surfaces of defined roughness into liquid nitrogen, Int J Heat Mass Transfer 39(9) 1953-1961 (Jun 1996), 8A1124
Dynamics of vapor bubbles in nucleate boiling, Int J Heat Mass Transfer 39(12) 2409-2426 (Aug 1996), 11A1161
EHD augmentation of nucleate boiling at a Gewa-T surface, J Enhanced Heat Transfer 3(3) 211-219 (1996), 11A1162
Hemispherical vapor bubble growth in microgravity: Experiments and model, Int J Heat Mass Transfer 39(12) 2449-2461 (Aug 1996), 11A1163
Nucleate pool boiling heat transfer of pure liquids at low to moderate heat fluxes, Int J Heat Mass Transfer 39(12) 2495-2504 (Aug 1996), 11A1164
Self-oscillating regimes of nucleate, transition and film boiling, Int J Heat Mass Transfer 39(11) 2363-2373 (Jul 1996), 11A1165
Spherical vapor bubble growth in uniformly superheated liquids, Int J Heat Mass Transfer 39(12) 2427-2447 (Aug 1996), 11A1166
Variable heat flux model of heat transfer in grinding with boiling, J Heat Transfer 118(2) 463-470 (May 1996), 11A1172

404C. Pool boiling (peak heat flux)

Issues in CHF modeling - The need for new experiments, J Heat Transfer 117(3) 558-567 (Aug 1995), 3A1078
Adsorption model for the superheat at the critical heat flux, J Heat Transfer 117(3) 779-782 (Aug 1995), 3T1079
Effects of disaolved gas content on pool boiling of a highly wetting fluid, J Heat Transfer 117(3) 687-692 (Aug 1995), 3A1080
Identification of pool-boiling heat transfer mechanisms from a wire immersed in saturated FC-72 using a single-photo and LDA method, J Heat Transfer 118(1) 117-123 (Feb 1996), 8A1125
Liquid nitrogen boiling around a temperature controlled heated wire, Int J Heat Mass Transfer 39(8) 1758-1762 (May 1996), 8T1126
Role of Marangoni effects on the critical heat flux for pool boiling of binary mixtures, J Heat Transfer 118(1) 103-109 (Feb 1996), 8A1127

404E. Nucleate flow boiling (external)

Correlation of Sauter mean diameter and critical heat flux for spray cooling of small surfaces, Int J Heat Mass Transfer 38(16) 2985-2996 (Nov 1995), 1A1229
Growth of vapor bubbles in boiling polymer solutions - I: Rheological and diffusional effects, Int J Heat Mass Transfer 39(3) 631-638 (Feb 1996), 4A1177
Growth of vapor bubbles in boiling polymer solutions - II: Nucleate boiling heat transfer, Int J Heat Mass Transfer 39(3) 639-644 (Feb 1996), 4A1178
Experimental examination of forced-convection subcooled nucleate boiling and its application in microgravity, J Heat Transfer 118(1) 237-241 (Feb 1996), 8T1128
Leidenfrost temperature on an extremely-smooth surface, Exp Thermal Fluid Sci 12(3) 373-379 (Apr 1996), 8A1129
Liquid crystal images of the transition from jet impingement convection to nucleate boiling - Part I: Monotonic distribution of the convection coefficient, Exp Thermal Fluid Sci 12(3) 274-287 (Apr 1996), 8T1153
Determination of the boiling enhancement mechanism caused by surfactant addition to water, J Heat Transfer 118(2) 429-435 (May 1996), 11A1167
Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, Int J Heat Mass Transfer 39(14) 3045-3055 (Sep 1996), 12A1228

404F. Flow boiling (internal)

Simple model to evaluate direct contact heat transfer and flow characteristics in annular two-phase flow, Int J Heat Fluid Flow 16(4) 272-279 (Aug 1995), 1A1035
Collapse of a boiling water jet, Heat Transfer Res 25(6) 751-753 (1993), 1A1230
Experimental data on hydraulic drag on boiling water in heated tubes, Heat Transfer Res 25(6) 738-741 (1993), 1A1231
Heat transfer and hydrodynamics in an ensemble of bubbles on discharge of boiling liquid, Heat Transfer Res 25(6) 760-764 (1993), 1A1232
Hydrodynamics and heat transfer of a vapor-liquid flow in a channel of complex geometry, Heat Transfer Res 25(6) 778-781 (1993), 1A1233
Natural circulation in circular channels, Heat Transfer Res 25(6) 773-777 (1993), 1A1234
Nonequilibrium effects and critical regimes during the outflow of boiling liquids, Heat Transfer Res 25(6) 747-750 (1993), 1A1235
Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, J Enhanced Heat Transfer 2(4) 263-271 (1995), 2A1109
Analysis of flow instabilities and their role on critical heat flux for two-phase downflow and low pressure systems, Int J Heat Mass Transfer 39(1) 39-48 (Jan 1996), 3A1081
Predictions of void friction in convective subcooled boiling channels using a 1D two-fluid model, J Heat Transfer 117(3) 799-803 (Aug 1995), 3T1082
Dynamic instabilities of boiling two-phase flow in a single horizontal channel, Exp Thermal Fluid Sci 11(4) 327-342 (Nov 1995), 4T1179
Two-dimensional wall temperature measurements and heat transfer enhancement for top-heated horizontal channels with flow boiling, Exp Thermal Fluid Sci 11(4) 372-386 (Nov 1995), 4T1180
Evaluation of the relaxation time of heat and mass exchange in the liquid-vapor bubble flow, Int J Heat Mass Transfer 39(4) 753-759 (Mar 1996), 5A1161
Enhancement of heat transfer due to bubbles passing through a narrow vertical rectangular channel: Change in heat transfer along flow, Heat and Mass Transfer Warme 31(1-2) 77-82 (Dec 1995), 6A1148
Experimental study of heat transfer to boiling binaries in a reboiler tube, Int J Heat Mass Transfer 39(7) 1489-1501 (May 1996), 7A1233
Flow boiling of binary mixtures in microchanneled plates, Int J Heat Mass Transfer 39(6) 1257-1264 (Apr 1996), 7A1234
Bubble behavior and mean diameter in subcooled flow boiling, J Heat Transfer 118(1) 110-116 (Feb 1996), 8A1130
Natural convective boiling in vertical rectangular narrow channels, Exp Thermal Fluid Sci 12(3) 313-324 (Apr 1996), 8T1131
Two-phase crossflow and boiling heat transfer in horizontal tube bundles, J Heat Transfer 118(1) 124-131 (Feb 1996), 8A1132
General characteristics of two-phase flow distribution in a multipass tube, Heat Transfer Japan Res 24(1) 32-44 (1995), 9A1257
Flow boiling heat transfer coefficients of R-134a in a microfin tube, J Heat Transfer 118(2) 497-499 (May 1996), 11T1168
Heat transfer of air-water two-phase flow in helicoidal pipes, J Heat Transfer 118(2) 442-448 (May 1996), 11A1169
High flux evaporative mini-channel heat sink with axial capillary grooves, J Enhanced Heat Transfer 3(3) 221-232 (1996), 11A1222
Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, Fusion Eng Des 31(2) 189-200 (Jun 1996), 12A1229
Horizontal flow boiling of R22 and R407C in a 9.52 mm micro-fin tube, Appl Thermal Eng 16(8-9) 719-731 (Sep 1996), 12A1230

404G. Flow boiling, peak heat flux (internal)

Effect of flow swirling and porous coating on critical heat flux in a horizontal tube with nonuniform heating, Heat Transfer Res 25(6) 806-809 (1993), 1A1236
Enhancement of heat transfer in steam generating tubes, Heat Transfer Res 25(6) 810-815 (1993), 1A1280
Theoretical model for flow boiling CHF from short concave heaters, J Heat Transfer 117(3) 698-707 (Aug 1995), 3A1083
Analytical study of critical heat flux in a vertical channel with countercurrent flow limitation, Heat Transfer Japan Res 23(7) 611-626 (1994), 4A1181
Critical heat flux of comparatively low-velocity upward-saturated two-phase flow in vertical channels, Heat Transfer Japan Res 23(8) 739-755 (1994), 7A1235
Critical heat flux and pressure drop of subcooled flow boiling in small-diameter tubes with twisted-tape inserts, J Enhanced Heat Transfer 3(2) 95-108 (1996), 8A1133
Effect of the tube diameter on the critical heat flux in subcooled flow boiling, Int J Heat Mass Transfer 39(8) 1755-1757 (May 1996), 8T1134
Single-phase and boiling cooling of small pin fin arrays by multiple nozzle jet impingement, J Electron Packaging 118(1) 21-26 (Mar 1996), 8A1222
Analytical study of critical heat flux in two-phase - thermosyphon: Relationship between maximum falling liquid rate and critical heat flux, J Heat Transfer 118(2) 422-428 (May 1996), 11A1170

404H. Flow boiling, peak heat flux (external)

Heat transfer and limiting heat loads in water boiling on downward-facing plane and spherical surfaces, Heat Transfer Res 25(6) 754-759 (1993), 1A1237
Heat transfer from a finned surface to boiling liquid mixtures, Heat Transfer Eng 16(1) 29-35 (Mar 1995), 1A1238
Effect of spray characteristics on spray cooling with liquid nitrogen, J Thermophys Heat Transfer 9(4) 757-765 (Dec 1995), 3A1084
Local jet impingement boiling heat transfer, Int J Heat Mass Transfer 39(7) 1395-1406 (May 1996), 7A1236
Analytical method to determine the liquid-film thickness produced by gas-atomized sprays, J Heat Transfer 118(1) 255-258 (Feb 1996), 8T1135
Critical heat flux in forced convective subcooled boiling with multiple impinging jets, J Heat Transfer 118(1) 241-243 (Feb 1996), 8T1136
Experimental investigation of the effects of subcooling and velocity on boiling of Freon-113, J Heat Transfer 118(2) 436-441 (May 1996), 11A1171

404I. Film boiling (pool)

Relationship between the critical heat flux density and the frequency of formation of vapor clusters under near-critical conditions, Heat Transfer Res 25(6) 732-737 (1993), 1A1239
Film boiling heat transfer of the refrigerant R-12 in a granular medium bed, Thermophys and Aeromech 2(1) 39-42 (1995), 2T1110
Film boiling from a downward-facing curved surface in saturated and subcooled water, Int J Heat Mass Transfer 39(2) 275-288 (Jan 1996), 4A1182
Boiling of droplets on a hot surface in low gravity, Int J Heat Mass Transfer 39(7) 1379-1393 (May 1996), 7A1232
Self-oscillating regimes of nucleate, transition and film boiling, Int J Heat Mass Transfer 39(11) 2363-2373 (Jul 1996), 11A1165
Variable heat flux model of heat transfer in grinding with boiling, J Heat Transfer 118(2) 463-470 (May 1996), 11A1172
Integral approximate solution of heat transfer in the grinding process, Int J Heat Mass Transfer 39(13) 2653-2662 (Sep 1996), 11A1187
Electric field effects on film boiling on a wire, Exp Heat Transfer 9(1) 11-27 (Mar 1996), 12A1231

404J. Film boiling (flow)

Dispersed film boiling heat transfer, Heat Transfer Res 25(6) 742-746 (1993), 1A1240
Boiling inception in falling films of binary mixtures, Exp Heat Transfer 8(3) 177-184 (Sep 1995), 6A1107
Annual Review of Heat Transfer, Volume VI (Begell House, New York, 1995) 9N26
Effect of surface geometry on steam absorption into a falling film of aqueous solution of LiBr, Heat Transfer Japan Res 24(1) 68-79 (1995), 9A1258

404L. Transition boiling

Heat transfer during liquid contact on superheated surfaces, J Heat Transfer 117(3) 693-697 (Aug 1995), 3A1085
Gas and Steam Properties (Wiley, New York, 1995) 5N29
Self-oscillating regimes of nucleate, transition and film boiling, Int J Heat Mass Transfer 39(11) 2363-2373 (Jul 1996), 11A1165
Determination of heat transfer through a vapor gap at boiling cryogenic liquid in the Leidenfrost regime, Russian Aeronaut 38(3) 30-36 (1995), 11A1173
Stability of boiling systems, Int J Heat Mass Transfer 39(14) 3021-3033 (Sep 1996), 12A1232

404M. Condensation (static vapor)

Kinetics of condensation-evaporation, Heat Transfer Res 25(6) 790-793 (1993), 1A1241
Discrete velocity coagulation-fragmentation model, Math Methods Appl Sci 18(12) 959-993 (Sep 1995), 2A1111
Effect of a circumferential rib on film condensation on a horizontal 2D fin tube, J Enhanced Heat Transfer 2(4) 307-315 (1995), 2A1112
Buoyancy-affected laminar film condensation, Heat and Mass Transfer Warme 30(6) 393-399 (Sep 1995), 3A1086
Mixed-convection laminar film condensation on a semi-infinite vertical plate, J Fluid Mech 300 207-229 (Oct 1995), 4A1159
Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, Heat Transfer Japan Res 23(7) 595-610 (1994), 4A1188
Numerical modeling of conduction-driven bulk evaporation and condensation processes with constant volume, Int J Numer Methods Eng 39(2) 219-233 (Jan 1996), 6A1108
Experimental study of R-11 and R-12 film condensation on horizontal integral-fin tubes, J Enhanced Heat Transfer 3(1) 43-53 (1996), 8A1137
Heat transfer during film condensation of R-123 vapor on horizontal integral-fin tubes, J Enhanced Heat Transfer 3(2) 147-164 (1996), 8A1138
Steam condensation on horizontal integral-fin tubes of low thermal conductivity, J Enhanced Heat Transfer 3(1) 55-71 (1996), 8A1139
Surface nonisothermness effect on profiled surface condensation enhancement, Int J Heat Mass Transfer 39(8) 1749-1754 (May 1996), 8A1140
Film condensation generated by a forced cooling fluid, Eur J Mech B 15(2) 217-240 (1996), 10A1276
Experimental study of electrohydrodynamically augmented condensation heat transfer on a smooth and an enhanced tube, J Heat Transfer 118(2) 499-502 (May 1996), 11T1174
Transient conjugate condensation process on a vertical plate with finite thermal inertia, Int J Heat Mass Transfer 39(11) 2221-2230 (Jul 1996), 11A1175
Weakly nonlinear stability analysis of condensate film flow down a vertical cylinder, Int J Heat Mass Transfer 39(13) 2821-2829 (Sep 1996), 11A1176

404N. Condensation (flowing vapor)

Kinetics of condensation-evaporation, Heat Transfer Res 25(6) 790-793 (1993), 1A1241
Heat and mass transfer in superheated vapor jet condensation, Heat Transfer Res 25(6) 765-769 (1993), 1A1242
Superheated vapor condensation on a superfluid helium surface, Heat Transfer Res 25(6) 798-805 (1993), 1A1243
Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, Exp Heat Transfer 8(1) 17-32 (Mar 1995), 1A1252
Measurement and interpretation of growth of monodispersed water droplets suspended in pure vapor, Int J Heat Mass Transfer 38(17) 3285-3293 (Nov 1995), 2A1113
Condensation heat transfer on vertical axis, axisymmetric, rotating surfaces, J Heat Transfer 117(3) 782-784 (Aug 1995), 3T1087
Mean condensate heat resistance of dropwise condensation with flowing, inert gases, Heat and Mass Transfer Warme 30(6) 435-445 (Sep 1995), 3A1088
Droplet deposition and heat transfer simulations of turbulent air-water dispersed flow in a vertical tube, JSME Int J Ser B 38(4) 628-636 (Nov 1995), 4T1008
Condensation performance of some commercial integral fin tubes with steam and CFC113, Exp Heat Transfer 8(2) 131-143 (Jun 1995), 4A1183
Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, Heat Transfer Japan Res 23(7) 627-644 (1994), 4A1184
Frost formation around a vertical cylinder in a wet air stream, J Brazilian Soc Mech Sci 17(2) 135-146 (1995), 4A1185
Transport of a condensable species in nonisothermal tube flow, Int J Numer Methods Heat & Fluid Flow 5(9) 797-812 (Nov 1995), 4A1186
Heat transfer, condensation, and fog formation in crossflow plastic heat exchangers, Int J Heat Mass Transfer 39(2) 391-405 (Jan 1996), 4A1217
Condensation of R-12 in small hydraulic diameter extruded aluminum tubes with and without microfins, Int J Heat Mass Transfer 39(4) 791-800 (Mar 1996), 5A1162
Advanced micro-fin tubes for condensation, Int J Heat Mass Transfer 39(9) 1839-1846 (Jun 1996), 8A1141

Effect of fog formation on turbulent vapor condensation with noncondensable gases, J Heat Transfer 118(1) 243-245 (Feb 1996), 8T1142
Theoretical and experimental studies on the pseudo-dropwise condensation of a binary vapor mixture, J Heat Transfer 118(1) 140-147 (Feb 1996), 8A1143
Measurement of condensation characteristic curves for binary mixture of steam and ethanol vapor, Heat Transfer Japan Res 24(1) 57-67 (1995), 9A1259
Heat transfer and pressure drop characteristics of HFC quaternary refrigerant mixtures inside horizontal enhanced surface tubing, Appl Thermal Eng 16(6) 461-473 (Jun 1996), 10A1277
Local and overall condensation heat transfer behavior in horizontal tube bundles, Heat Transfer Eng 17(1) 19-30 (Mar 1996), 10A1278
Numerical simulation of nonequilibrium condensation in a hypersonic wind tunnel, J Thermophys Heat Transfer 10(2) 277-283 (Jun 1996), 10A1279
Forced convection in-tube steam condensation in the presence of noncondensable gases, Int J Heat Mass Transfer 39(13) 2625-2639 (Sep 1996), 11A1177
Effects of binary mixture condensation on turbulent mixed convection heat and mass transfer in a vertical channel, Numer Heat Transfer A 29(6) 599-612 (May 1996), 11A1262
Heat transfer correlation for condensation inside horizontal smooth tubes using the population balance approach, Int J Heat Mass Transfer 39(14) 2947-2956 (Sep 1996), 12A1233
Modeling of an interfacial shear for gas liquid flows in annular film condensation, J Appl Mech 63(2) 529-538 (Jun 1996), 12A1234

404O. Evaporation

Heat and mass transfer coupling between vaporizing droplets and turbulence using a Lagrangian approach, Int J Heat Mass Transfer 38(16) 3023-3034 (Nov 1995), 1A1244
Discrete velocity coagulation-fragmentation model, Math Methods Appl Sci 18(12) 959-993 (Sep 1995), 2A1111
Transcritical vaporization and combustion of lox droplet arrays in a convective environment, Combust Sci Tech 105(4-6) 327-344 (Apr 1995), 2A1114
Water flash evaporation under low pressure conditions, Heat Transfer Japan Res 23(6) 544-555 (1994), 2A1115
Simulation of spray pyrolysis for ceramic powder preparation, Particulate Sci Tech 13(2) 149-167 (Jun 1995), 3A641
Adiabatic evaporation waves, J Brazilian Soc Mech Sci 16(4) 445-451 (1994), 3A1089
Energy efficient evaporation process for treating bleach plant effluents, Appl Thermal Eng 16(1) 33-42 (Jan 1996), 3A1090
Heat transfer enhancement through liquid film evaporation into countercurrent moist air flow in a vertical plate channel, Heat and Mass Transfer Warme 30(6) 473-480 (Sep 1995), 3A1091
Heat transfer to sliding bubbles on a tube under evaporating and non-evaporating conditions, Int J Heat Mass Transfer 39(1) 211-214 (Jan 1996), 3T1092
Influence of capillary pressure on the evaporation of thin liquid films, Heat and Mass Transfer Warme 30(6) 467-472 (Sep 1995), 3A1093
Method of heat and mass transfer enhancement in film evaporation, Int J Heat Mass Transfer 39(1) 97-108 (Jan 1996), 3A1094
Vaporization of dilating non-ideal binary droplets with radiation absorption, J Brazilian Soc Mech Sci 16(4) 437-444 (1994), 3A1095
Computation of turbulent evaporating sprays with well-specified measurements: A sensitivity study on droplet properties, Int J Heat Mass Transfer 39(3) 441-454 (Feb 1996), 4A1187
Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, Heat Transfer Japan Res 23(7) 595-610 (1994), 4A1188
Thermocapillary flow effects on convective droplet evaporation, Int J Heat Mass Transfer 39(2) 247-257 (Jan 1996), 4A1189
Transient heating and vaporization of a cool dense cloud of droplets in hot supercritical surroundings, Int J Heat Mass Transfer 39(5) 1023-1031 (Mar 1996), 6A1109
Evaporative heat transfer at the evaporative section of a grooved heat pipe, J Thermophys Heat Transfer 10(1) 83-89 (Mar 1996), 6A1149
Experimental studies of supersonic film cooling with shock wave interaction, AIAA J 34(2) 265-271 (Feb 1996), 7A1096
Linearized evaporation from a soil of finite depth near a wetted region, Quart J Mech Appl Math 49(1) 49-64 (Feb 1996), 7A1237
Advanced micro-fin tubes for evaporation, Int J Heat Mass Transfer 39(9) 1827-1838 (Jun 1996), 8A1144
Effects of rotating gaseous flows on transient droplet dynamics and heating, Int J Heat Fluid Flow 17(1) 52-62 (Feb 1996), 8A1145
Enhancement of evaporation of a liquid droplet using EHD effect: Criteria for instability of gas-liquid interface under electric field, J Enhanced Heat Transfer 3(1) 73-81 (1996), 8A1146
Evaporative cooling of fibers by a low-Reynolds-number crossflow, J Heat Transfer 118(1) 246-249 (Feb 1996), 8T1147
Thickness of the liquid film formed by a growing bubble in a narrow gap between two horizontal plates, J Heat Transfer 118(1) 132-139 (Feb 1996), 8A1148
Evaporation heat transfer of falling films on horizontal tube - Part I: Analytical study, Heat Transfer Japan Res 24(1) 1-16 (1995), 9A1260
Evaporation heat transfer of falling films on horizontal tube - Part 2: Experimental study, Heat Transfer Japan Res 24(1) 17-31 (1995), 9A1261
Vaporization behavior of a single droplet impinging on a hot surface with a flame-sprayed ceramic coating and a pressurized atmosphere, Heat Transfer Japan Res 24(1) 80-97 (1995), 9A1262
Evaporation heat and mass transfer in a system of monodisperse macroparticles, Heat Transfer Res 25(8) 966-969 (1993), 10A1280
Shape of an evaporating completely wetting extended meniscus, J Thermophys Heat Transfer 10(2) 320-325 (Jun 1996), 10A1281
Cooling of a superheated surface with a jet mist flow, Int J Heat Mass Transfer 39(11) 2353-2362 (Jul 1996), 11A1178
Evaporation of multicomponent liquid fuel droplets, Int J Energy Res 20(5) 385-398 (May 1996), 11A1179
Flow of liquid in the open rectangular groove on the heat-pipe evaporator with an account for the oncoming vapor stream influence, Russian Aeronaut 38(3) 99-101 (1995), 11A1180
In-tube evaporation of HCFC-22 in a 9.52 mm micro-fin-smooth tube, Int J Heat Mass Transfer 39(12) 2559-2569 (Aug 1996), 11A1181
Numerical study of droplet-vortex interactions in an evaporating spray, Int J Heat Mass Transfer 39(11) 2205-2219 (Jul 1996), 11A1182

404P. Surface tension effects

Bubble detachment criteria: Some criticism of "Das Abreissen von Dampfblasen an festen Heizflachen", Int J Heat Mass Transfer 39(3) 653-657 (Feb 1996), 4A1190
Homogeneous nucleation of vapor by depressurization at constant volume, Int J Heat Mass Transfer 39(2) 235-246 (Jan 1996), 4A1191
Combined surface tension and buoyancy-driven convection in a rectangular open cavity in the presence of a magnetic field, Int J Non-Linear Mech 30(5) 759-770 (Sep 1995), 5A1163
Effects of surface tension and wire diameter on the rise velocity of a bubble in a miniature two-phase closed thermosyphon, Appl Thermal Eng 16(8-9) 655-668 (Sep 1996), 12A1235
Self-similar solutions describing unsteady thermocapillary fluid flows, J Appl Math Mech 59(6) 957-963 (1995), 12A1236

404Q. Transient effects

Problem of interface heat exchange between a gas bubble and a liquid, J Appl Math Mech 59(1) 155-157 (1995), 1A1245
Transient heat transfer in boiling of cryogenic liquids in a channel, Heat Transfer Res 25(6) 841-845 (1993), 1A1246
Dynamic instabilities of boiling two-phase flow in a single horizontal channel, Exp Thermal Fluid Sci 11(4) 327-342 (Nov 1995), 4T1179
Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, Exp Heat Transfer 8(2) 97-117 (Jun 1995), 4A1192
Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, Exp Heat Transfer 8(2) 119-130 (Jun 1995), 4A1193
Effects of rotating gaseous flows on transient droplet dynamics and heating, Int J Heat Fluid Flow 17(1) 52-62 (Feb 1996), 8A1145
Interfacial wave stability of concurrent two-phase flow in a horizontal channel, Int J Heat Mass Transfer 39(10) 2067-2075 (Jul 1996), 10A1282

404R. Solid-fluid flows

Role of micro-convection due to non-affine motion of particles in a mono-disperse suspension, Int J Heat Mass Transfer 38(16) 2945-2958 (Nov 1995), 1A1247
Flow focusing instability in a solidifying mushy layer, J Fluid Mech 297 293-305 (Aug 1995), 2A1116
Perturbation solution for the pressure and porosity distributions for the three-phase model of the mushy zone, Thermophys and Aeromech 2(1) 51-64 (1995), 2T1117
Heat transfer enhancement in water-feldspar upflows through vertical annuli, Int J Heat Mass Transfer 39(1) 135-147 (Jan 1996), 3A1096
Weakly nonlinear analysis of convection in mushy layers during the solidification of binary alloys, J Fluid Mech 302 307-331 (Nov 1995), 4A1073
Solidification of a binary alloy of variable viscosity from a vertical boundary, J Fluid Mech 303 103-132 (Nov 1995), 4A1194
Mathematical model of transfer of momentum and heat in disperse turbulent jet flows, Heat Transfer Res 25(7) 894-898 (1993), 5A1164
Spatial distribution of gas particles emerging from a nonisothermally heated cylindrical channel with heterogeneous processes on the surface, Int J Heat Mass Transfer 39(5) 1103-1110 (Mar 1996), 6A1110
Real-time microholography for in-situ concentration measurements in the vicinity of growing dendrites, J Heat Transfer 118(1) 249-255 (Feb 1996), 8T1149
Heat exchange between a gas suspension and a wall, Heat Transfer Res 25(8) 930-933 (1993), 10A1283
Heat transfer to a finned tube in a high-temperature pulsating layer, Heat Transfer Res 25(8) 975-979 (1993), 10A1284
Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - I: Modeling, Int J Heat Mass Transfer 39(13) 2771-2789 (Sep 1996), 11A1183
Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - II: Experiments, Int J Heat Mass Transfer 39(13) 2791-2802 (Sep 1996), 11A1184
Comparison between theoretical models and experimental data for the spreading of liquid droplets impacting a solid surface, Int J Heat Mass Transfer 39(14) 3079-3082 (Sep 1996), 12T1237
Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, Fusion Eng Des 31(2) 109-115 (Jun 1996), 12A1333

404S. Electric field effects

Electrohydrodynamically enhanced heat transfer in pool boiling, J Heat Transfer 118(1) 233-237 (Feb 1996), 8T1150

404V. Porous media

Burnout heat transfer in steam-water mixtures in cylindrical and annular porous channels, Heat Transfer Res 25(6) 852-855 (1993), 1A1248
Heat transfer in the inverted meniscus type evaporator at high heat fluxes, Int J Heat Mass Transfer 38(16) 3091-3101 (Nov 1995), 1A1249
Pressure effects on the heat transfer of a liquid boiling on a surface with a capillary-porous coating, Heat Transfer Res 25(6) 836-840 (1993), 1A1250
Film boiling heat transfer of the refrigerant R-12 in a granular medium bed, Thermophys and Aeromech 2(1) 39-42 (1995), 2T1110
Peculiarities of two-phase flow in coalbeds, J Brazilian Soc Mech Sci 17(1) 26-34 (1995), 3A933
Flow of nitrogen and superheated steam through cement mortar, J Thermophys Heat Transfer 9(4) 790-792 (Dec 1995), 3T1097
Experimental study of boiling on a wicked surface, Int J Heat Mass Transfer 39(4) 771-777 (Mar 1996), 5A1178
General mathematical modeling for heat and mass transfer in unsaturated porous media: An application to free evaporative cooling, Heat and Mass Transfer Warme 31(1-2) 49-55 (Dec 1995), 6A1111
Experimental study of convective boiling in a porous medium: Temperature field analysis, J Heat Transfer 118(1) 230-233 (Feb 1996), 8T1151
R113 boiling heat transfer modeling on porous metallic matrix surfaces, Int J Heat Fluid Flow 17(1) 45-51 (Feb 1996), 8A1152
Principles of Heat Transfer in Porous Media, Second Edition - Mechanical Engineering Series (Springer-Verlag, New York, 1995) 9R25
Methods of liquid feeding to a capillary-porous coated surface, Heat Transfer Res 25(8) 957-961 (1993), 10A1285
Effects of liquid-vapor coupling and non-Darcian transport on asymmetrical disk-shaped heat pipes, Int J Heat Mass Transfer 39(10) 2095-2113 (Jul 1996), 10A1319
Experimental study of constant-pressure steam injection and transient condensing flow in an air-saturated porous medium, J Heat Transfer 118(2) 449-454 (May 1996), 11A1185
Pore-network study of bubble growth in porous media driven by heat transfer, J Heat Transfer 118(2) 455-462 (May 1996), 11A1186
Forced convection steam condensation experiments within thin porous coatings, Int J Heat Mass Transfer 39(14) 2937-2945 (Sep 1996), 12A1238

404Y. Computational techniques

Computational Moving Boundary Problems (Wiley, New York, 1994) 1R34
Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995 (Comput Mech, Billerica MA, 1995) 1N35
Computer program for the temperature distribution within the fin of water wall, Adv Eng Software 22(2) 119-126 (1995), 1A1251
Computational models of transfer processes in disperse flows, Heat Transfer Res 25(7) 918-921 (1993), 5A1165

404Z. Experimental techniques

Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, Exp Heat Transfer 8(1) 17-32 (Mar 1995), 1A1252
Two-dimensional wall temperature measurements and heat transfer enhancement for top-heated horizontal channels with flow boiling, Exp Thermal Fluid Sci 11(4) 372-386 (Nov 1995), 4T1180
Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, Exp Heat Transfer 8(2) 97-117 (Jun 1995), 4A1192
Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, Exp Heat Transfer 8(2) 119-130 (Jun 1995), 4A1193
Laser doppler anemometry measurements of bubble rise velocity and departure frequency, Exp Heat Transfer 8(2) 145-160 (Jun 1995), 4A1195
Comprehensive evaluation and prediction and enhancement of boiling heat transfer with additives (Chinese), J Dalian Univ Tech 35(2) 145-150 (Apr 1995), 8A1123
Identification of pool-boiling heat transfer mechanisms from a wire immersed in saturated FC-72 using a single-photo and LDA method, J Heat Transfer 118(1) 117-123 (Feb 1996), 8A1125
Liquid crystal images of the transition from jet impingement convection to nucleate boiling - Part I: Monotonic distribution of the convection coefficient, Exp Thermal Fluid Sci 12(3) 274-287 (Apr 1996), 8T1153
Rewetting temperatures and velocity in a quenching experiment, Exp Heat Transfer 8(4) 257-270 (Dec 1995), 8A1154
Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, Fusion Eng Des 31(2) 189-200 (Jun 1996), 12A1229

406. CONDUCTION

406A. General theory

Analytical method for determining thermal conductivity from dynamic experiments, Int J Heat Mass Transfer 38(14) 2549-2556 (Sep 1995), 1A1253
Hyberbolic axial dispersion model: Concept and its application to a plate heat exchanger, Int J Heat Mass Transfer 38(16) 3065-3076 (Nov 1995), 1A1254
Inverse analysis to estimate linearly temperature dependent thermal conductivity components and heat capacity of an orthotropic medium, Int J Heat Mass Transfer 38(16) 3005-3010 (Nov 1995), 1A1255
Possibility of thermal solitons, Int J Heat Mass Transfer 38(14) 2701-2703 (Sep 1995), 1T1256
Towards a theory of the surface conductance coefficient in solids, J Thermophys Heat Transfer 9(3) 560-562 (Sep 1995), 1T1257
Thermal response of thin-film high-T_c superconductors to modulated irradiation, J Thermophys Heat Transfer 9(3) 397-402 (Sep 1995), 1A1273
Heat conduction in a semi-infinite solid subject to steady and non-steady periodic-type surface heat fluxes, Int J Heat Mass Transfer 38(18) 3393-3399 (Dec 1995), 2A1118
Inverse problem in simultaneously measuring temperature-dependent thermal conductivity and heat capacity, Int J Heat Mass Transfer 38(18) 3433-3441 (Dec 1995), 2A1119
Microstructural influence on heat conduction, Int J Heat Mass Transfer 38(17) 3181-3195 (Nov 1995), 2A1120
Constitutive convolution and graph theoretical representations of thermodynamic processes: Thermal conduction, J Thermophys Heat Transfer 9(4) 674-680 (Dec 1995), 3A1098
Remarks upon the contribution of J Stefan to the understanding of diffusion processes, Int J Heat Mass Transfer 39(1) 218-220 (Jan 1996), 3T1099
Note on hyperbolic heat conduction in a rigid solid, Trans Can Soc Mech Eng 19(4) 509-516 (1995), 6A1112
Relaxation heat conduction and generation: An analysis of the semi-infinite body case by method of Laplace transforms, Int J Heat Mass Transfer 39(7) 1543-1549 (May 1996), 7A1238

Thermal Contact Conductance - Mechanical Engineering Series, Vol 14 (Springer-Verlag, New York, 1996) 8R33
Non-Fourier heat conduction in a finite medium under periodic surface thermal disturbance, Int J Heat Mass Transfer 39(8) 1585-1590 (May 1996), 8A1155
Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, J Heat Transfer 118(1) 198-202 (Feb 1996), 8T1156
Semi-numerical method for solving inverse heat conduction problems, Heat and Mass Transfer Warme 31(3) 105-111 (Feb 1996), 8A1157
Thermodynamic derivation of the heat conduction equation and the dynamic boundary value problem for thermoelastic materials and fluids, Acta Mech 114(1-4) 27-37 (1996), 8A1158
Performance and optimum dimensions of different cooling fins with a temperature-dependent heat transfer coefficient, Int J Heat Mass Transfer 39(9) 1993-2003 (Jun 1996), 8A1197
Impulsive effects on global existence of solutions of semilinear heat equations, Nonlinear Anal 26(9) 1481-1489 (May 1996), 9T1263
Unsteady heat transfer from a sphere at small Peclet numbers, J Fluids Eng 118(1) 96-102 (Mar 1996), 9A1264
Heat transfer through a low-pressure gas enclosure as a thermal insulator: Design considerations, Int J Energy Res 20(4) 327-338 (Apr 1996), 10A1286
Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, Int J Heat Mass Transfer 39(14) 3035-3043 (Sep 1996), 12A1239

406B. Steady problems

Heat conduction through a rarefied gas between two rotating cylinders at small temperature difference, Z Angew Math Phys 46(5) 680-692 (Sep 1995), 2A918
Current density and temperature distribution near the corner of angled metal line, Mech Res Commun 22(5) 473-483 (Oct 1995), 2T1121
Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, J Composite Mat 29(13) 1719-1724 (1995), 2A1122
Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, J Thermal Anal 45(3) 417-436 (Sep 1995), 3A1100
Static-image method for the interaction of two coaxial conducting prolate spheroids, Quart J Mech Appl Math 48(4) 531-542 (Nov 1995), 3A1101
Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, J Heat Transfer 117(3) 574-581 (Aug 1995), 3A1166
Diffusion across a corrugated saw-tooth plate, Mech Res Commun 22(6) 589-597 (Dec 1995), 4T1196
Multidimensional steady conduction in convecting, radiating, and convecting-radiating fins and fin assemblies, Heat Transfer Eng 16(3) 32-64 (Sep 1995), 4A1197
Quantitative justification of simplifications in some heat conduction problems, J Comput Appl Math 62(1) 75-88 (Aug 1995), 4A1198
Role of thermoelectric heat transfer in the design of SMA actuators: Theoretical modeling and experiment, Smart Mat Struct 4(4) 252-263 (Dec 1995), 7A1239
Investigation of the heat transfer characteristics of a typical annular combustion chamber of an industrial gas turbine, Heat Transfer Eng 16(4) 17-27 (Dec 1995), 7A1252
Finite element analysis of the stability of static thermoelastic contact, J Thermal Stresses 19(2) 169-184 (Mar 1996), 8A1159
Performance indicators for steady-state heat transfer through fin assemblies, J Heat Transfer 118(2) 310-316 (May 1996), 11A1102
Integral approximate solution of heat transfer in the grinding process, Int J Heat Mass Transfer 39(13) 2653-2662 (Sep 1996), 11A1187
Study of the steady and transient temperature field and heat flow in the combustion chamber components of a medium speed diesel engine using FE analyses, Int J Energy Res 20(5) 437-464 (May 1996), 11A1188
Superficial heat flux and temperature measurement on a wall (French), Mat Struct 29(188) 219-225 (May 1996), 11A1189

406C. Transient problems

Modeling transient conduction from isothermal convex bodies of arbitrary shape, J Thermophys Heat Transfer 9(3) 385-390 (Sep 1995), 1A1258
Analytical superposition approach to wall heat conduction under arbitary temperature perturbations for air-conditioning applications, Heat Recovery Syst CHP 15(8) 733-747 (Nov 1995), 2A1123
Model laws for curing of thermosetting composites, J Composite Mat 29(13) 1741-1761 (1995), 2A1124
Modeling the heat and mass transfer analysis during oil-frying of cylindrical sausages, Int J Energy Res 19(7) 555-565 (Sep 1995), 2A1125
Optimum design of transient heat conduction fields using BE inverse analysis, JSME Int J Ser A 38(4) 480-486 (Oct 1995), 3A852
Analytical solution to transient heat conduction in a composite region with a cylindrical heat source, J Solar Energy Eng 117(3) 242-248 (Aug 1995), 3A1102
Exact modeling for thermal diffusivities of solid objects exposed to heating, Int J Energy Res 19(8) 693-698 (Nov 1995), 3A1103
Experimental evidence of hyperbolic heat conduction in processed meat, J Heat Transfer 117(3) 568-573 (Aug 1995), 3A1104
Experimental support for the lagging behavior in heat propagation, J Thermophys Heat Transfer 9(4) 686-693 (Dec 1995), 3A1105
Function estimation in predicting temperature-dependent thermal conductivity without internal measurements, J Thermophys Heat Transfer 9(4) 667-673 (Dec 1995), 3A1106
Heat transfer modeling in a polymer sample located in a microwave field - II: Transient state, J Thermal Anal 45(3) 375-384 (Sep 1995), 3A1107
Modeling hot flat-Rolling of components having curved profiles - Part II: Characterization of heat transfer and flow stress, Int J Mech Sci 37(12) 1283-1293 (Dec 1995), 3A1108
Non-Fourier heat conduction in IC chip, J Electron Packaging 117(3) 174-177 (Sep 1995), 3A1109
Numerical simulation of measured transient heat transfer through a concrete ground floor slab and underlying substrata, Int J Numer Methods Heat & Fluid Flow 5(8) 669-683 (Oct 1995), 3A1110
Study into a numerical solution for a pulsed CO_2 laser heating process, Numer Heat Transfer A 28(4) 487-502 (Oct 1995), 3A1111
Development of new correlations for forced convection heat transfer during cooling of products, Int J Energy Res 19(9) 791-801 (Dec 1995), 4A1141
Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, Exp Heat Transfer 8(2) 97-117 (Jun 1995), 4A1192
Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, Exp Heat Transfer 8(2) 119-130 (Jun 1995), 4A1193
Approach for determining surface temperature distributions of solid objects subjected to heating applications, Int J Energy Res 19(9) 803-811 (Dec 1995), 4A1199
Ground temperature below buildings, Solar Energy 55(5) 355-362 (Nov 1995), 4A1200
Numerical solution of transient heat conduction in a cylindrical section during quenching, Numer Heat Transfer A 28(5) 547-574 (Nov 1995), 4A1201
Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, Int J Heat Mass Transfer 39(2) 355-371 (Jan 1996), 4A1202
Three-dimensional, transient model for laser machining of ablating-decomposing materials, Int J Heat Mass Transfer 39(2) 221-234 (Jan 1996), 4A1203
Total heat transfer coefficients for canned foods during sterilization, Int J Energy Res 19(9) 813-818 (Dec 1995), 4A1204
Fast Fourier transform of spectral BEs for transient heat conduction, Int J Numer Methods Heat & Fluid Flow 5(9) 813-827 (Nov 1995), 4A1210
Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), Numer Heat Transfer B 28(3) 277-291 (Nov 1995), 4A1213
Determination of heat transfer coefficient between PVC and steel in vacuum extrusion calibrators, Int J Numer Methods Heat & Fluid Flow 6(1) 3-12 (Jan 1996), 6A1113
On-site experimental estimation of thermal conductivities and heat capacities in multilayer walls under arbitrary transient conditions using explicit and implicit finite difference schemes, Int J Energy Res 20(1) 17-32 (Jan 1996), 6A1114
Prediction of railway disc brake temperatures taking the bearing surface variations into account, Proc Inst Mech Eng F 209(F2) 67-76 (1995), 6A1115
Time-dependent laser ignition of a combustible stagnant boundary layer, IMA J Appl Math 55(3) 257-268 (1995), 6A1193
Application of the BEM to inverse heat conduction problems, Int J Heat Mass Transfer 39(7) 1503-1517 (May 1996), 7A1240
Hyberbolic heat conduction and thermal resonances in a cylindrical solid carrying a steady-periodic electric field, Int J Heat Mass Transfer 39(6) 1307-1315 (Apr 1996), 7A1241
Temporary range of validity for some mathematical models which involve the heat-diffusion equation, Quart Appl Math 54(1) 1-19 (Mar 1996), 7A1242
Transient heat conduction and thermal stress problems of a nonhomogeneous plate with temperature-dependent material properties, J Thermal Stresses 19(1) 77-102 (Feb 1996), 7A1243
Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, Struct Eng and Mech 4(1) 61-72 (Jan 1996), 8A62
Experimental study of axial heat conduction of oscillating tube's wall (Chinese), J Dalian Univ Tech 36(1) 37-40 (Jan 1996), 8A1160
Temperature solutions due to time-dependent moving-line-heat sources, Heat and Mass Transfer Warme 31(3) 185-189 (Feb 1996), 8A1161
Dual-reciprocity BE approach to 3D transient heat conduction as applied to materials processing, Numer Heat Transfer A 29(3) 243-264 (Feb 1996), 8A1173
Unsteady heat transfer from a sphere at small Peclet numbers, J Fluids Eng 118(1) 96-102 (Mar 1996), 9A1264
Finite element analysis of the thermal field in the rotor during induction motor start-up, Numer Heat Transfer A 29(5) 525-539 (Apr 1996), 10A1287
Immersing cooling of large spherical produces: Thermal parameters, Int J Energy Res 20(4) 351-358 (Apr 1996), 10A1288
Modeling of nonstationary heat conduction problems in microperiodic composites, Z Angew Math Mech 76(4) 223-229 (1996), 10A1289
Multidimensional inverse transient heat conduction problems by direct sensitivity coefficient method using a FE scheme, Numer Heat Transfer B 29(3) 365-380 (May 1996), 10A1296
Equilibrium solutions of diffusion equations with nonlinear boundary conditions, Z Angew Math Phys 47(2) 194-209 (Mar 1996), 10A1347
Analysis of transient heat conduction with phase changes by a boundary integral equation method, Nucl Eng Des 162(2-3) 317-324 (Apr 1996), 11A1190
Dynamics of the thermal state of building interiors, Acta Tech CSAV 41(2) 177-203 (1996), 11A1191
Efficient computational method for modeling transient heat conduction with nonlinear source terms, Appl Math Model 20(7) 513-522 (Jul 1996), 11A1192
Transient heat conduction during quenching of downward facing copper and stainless steel convex surfaces, Numer Heat Transfer A 29(6) 543-573 (May 1996), 11A1193
Analytical solutions to a 1D finite-domain model for stratified thermal storage tanks, Solar Energy 56(4) 315-322 (Apr 1996), 11A1238
Heat conduction in a semi-infinite solid due to time-dependent laser source, Int J Heat Mass Transfer 39(14) 3067-3074 (Sep 1996), 12A1240
Analysis-FE combined methodology on transient heat conduction of a finite domain with planar-discrete sources, Numer Heat Transfer B 29(4) 459-478 (Jun 1996), 12A1246

406D. Nonlinear theory

Shocks in nonlinear diffusion, Appl Math letters 8(5) 27-32 (Sep 1995), 2A1126
Thermal shock at the boundary of a half-space in the case of axial symmetry, J Appl Math Mech 59(2) 227-234 (1995), 2A1127
Analytic solutions for contaminant transport under nonequilibrium conditions, Appl Sci Res 55(1) 31-38 (Jul 1995), 3A1189
Boundary integral equation method for nonlinear heat conduction problems with temperature-dependent material properties, Int J Heat Mass Transfer 39(4) 823-830 (Mar 1996), 5A1166
Shape sensitivity analysis for nonlinear steady-state heat conduction problems, Int J Heat Mass Transfer 39(12) 2609-2613 (Aug 1996), 11A1194

406E. Contact resistance

Contact conductance of selected metal-matrix composites, J Thermophys Heat Transfer 9(3) 391-396 (Sep 1995), 1A1259
Thermal contact resistance of wavy surfaces, J Brazilian Soc Mech Sci 17(1) 56-76 (1995), 2A1128
Effect of surface deformations on thermal contact conductance of coated junctions, J Thermophys Heat Transfer 9(4) 681-685 (Dec 1995), 3A1112
Thermal contact resistance of wavy surfaces, J Brazilian Soc Mech Sci 17(1) 56-76 (1995), 3A1113
Transient thermal constriction resistance in a finite heat flux tube, J Heat Transfer 117(3) 748-751 (Aug 1995), 3T1114
Thermal contact conductance of tool steel and comparison with model, Int J Heat Mass Transfer 39(4) 831-839 (Mar 1996), 5A1167
Experimental determination of overall thermal resistances of satellite bolted joints, J Thermophys Heat Transfer 10(1) 177-179 (Mar 1996), 6T1116
Influence of surface preparation on thermal contact conductance of stainless steel and aluminum, Exp Heat Transfer 8(3) 195-208 (Sep 1995), 6A1117
Thermal contact conductance of diamond-like films, J Thermophys Heat Transfer 10(1) 19-25 (Mar 1996), 6A1118
Thermal contact conductance of refractory ceramic coatings, J Thermophys Heat Transfer 10(1) 10-18 (Mar 1996), 6A1119
Influence of thermoresistance on the main contact characteristics in the 2D setting, Mech Solids 30(4) 52-58 (1995), 7A1244
Thermal Contact Conductance - Mechanical Engineering Series, Vol 14 (Springer-Verlag, New York, 1996) 8R33
Elastoplastic constriction resistance model for sphere-flat contacts, J Heat Transfer 118(1) 202-205 (Feb 1996), 8T1162
Elastoplastic contact conductance model for isotropic conforming rough surfaces and comparison with experiments, J Heat Transfer 118(1) 3-9 (Feb 1996), 8A1163
Thermal contact conductance of selected polymeric materials, J Thermophys Heat Transfer 10(2) 334-342 (Jun 1996), 10A1290

406F. Anisotropic media

Temperature field in a multilayer assembly affected by a local laser heating, Int J Heat Mass Transfer 38(17) 3143-3147 (Nov 1995), 2A1129
Closed-form solutions of the in-plane effective thermal conductivities of woven-fabric composites, Composites Sci Tech 55(1) 41-48 (1995), 3A1115
Spatial FEM model of thermal stress state of concrete blocks with creep consideration, Comput Struct 58(3) 563-574 (Feb 1996), 4A1205
Model to predict the through-thickness distribution of heat generation in cross-ply carbon-fiber composites subjected to alternating magnetic fields, Composites Sci Tech 55(2) 119-130 (1995), 5A1168
Hugoniot relations for different heat conduction laws, J Thermal Stresses 19(1) 17-38 (Feb 1996), 7A1245
Transient temperature response of functionally gradient material subjected to partial stepwise heating, Heat Transfer Japan Res 23(8) 710-726 (1994), 7A1246
Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, Struct Eng and Mech 4(1) 61-72 (Jan 1996), 8A62
Analysis of the thermal performance of dynamic solar systems, Numer Heat Transfer A 29(4) 357-371 (Mar 1996), 8A1164
Thermal conduction in nonhomogeneous CVD diamond layers in electronic microstructures, J Heat Transfer 118(2) 279-286 (May 1996), 11A1195
Thermal conductivity of graphite-aluminum and graphite-copper composites, J Heat Transfer 118(2) 478-480 (May 1996), 11T1196

406G. Porous and granular material

Effective electrical conductivity of nonlinear laminate composites, Quart Appl Math 53(3) 433-464 (Sep 1995), 1A556
Effective thermal conductivity of a saturated porous medium, J Thermophys Heat Transfer 9(3) 573-575 (Sep 1995), 1T1371
Heat conduction through a barrier made of a suspension of disklike particles, J Heat Transfer 117(3) 755-757 (Aug 1995), 3T1116
Heat transfer within a steel-reinforced porous concrete slab subjected to microwave heating, J Heat Transfer 117(3) 582-589 (Aug 1995), 3A1117
Mean free path and apparent thermal conductivity of a gas in a porous medium, J Heat Transfer 117(3) 758-761 (Aug 1995), 3T1118
Development of precooling method using frozen sand (sandprecool method) (Japanese), Proc JSCE 522(VI-28) 39-43 (Sep 1995), 4T1206
Modeling the effective thermal conductivity of random packing of spheres through densification, Int J Heat Mass Transfer 39(7) 1343-1350 (May 1996), 7A1247
Modeling of instantaneous temperature field in reactor (Chinese), J Dalian Univ Tech 35(4) 520-524 (Aug 1995), 8A1165
Modeling of non-isothermal gas flow through a heterogeneous medium, Int J Heat Mass Transfer 39(8) 1743-1748 (May 1996), 8A1166
Appraisal of 1D analytical models for the packed bed thermal storage systems utilizing sensible heat storage materials, J Energy Resources Tech 118(1) 44-49 (Mar 1996), 8A1213
Thermal stresses in a fluid-saturated poroelastic hollow sphere, J Thermal Stresses 19(2) 139-151 (Mar 1996), 8A1226
Principles of Heat Transfer in Porous Media, Second Edition - Mechanical Engineering Series (Springer-Verlag, New York, 1995) 9R25
Modeling of nonstationary heat conduction problems in microperiodic composites, Z Angew Math Mech 76(4) 223-229 (1996), 10A1289
Experimental research on transient heat transfer in sand, Acta Mech Sinica 12(1) 39-46 (1996), 10A1422
Two-point quasifractional approximants for effective conductivity of a simple cubic lattice of spheres, Int

J Heat Mass Transfer 39(11) 2349-2352 (Jul 1996), 11A1197

406H. Multiphase media

Solidification of a binary alloy of variable viscosity from a vertical boundary, J Fluid Mech 303 103-132 (Nov 1995), 4A1194
New oscillatory instability in a mushy layer during the solidification of binary alloys, J Fluid Mech 307 245-267 (Jan 1996), 7A1119
Extremal structures of multiphase heat conducting composites, Int J Solids Struct 33(18) 2609-2623 (Jul 1996), 11A1198
Influence of void shape, void volume, and matrix anisotropy on effective thermal conductivity of a three-phase composite, J Composite Mat 30(8) 933-946 (1996), 12A1241

406I. Phase change (freezing, melting)

Intrinsic equation of interfacial motion for the solidification of a pure hypercooled melt, Physica D 85(3) 348-374 (Aug 1995), 1A1260
Singularities in a modified Kuramoto-Sivashinsky equation describing interface motion for phase transition, Physica D 85(3) 375-404 (Aug 1995), 1A1261
Three-Dimensional transient heat transfer from a buried pipe: Solidification of a stationary fluid, Numer Heat Transfer A 28(2) 175-193 (Aug 1995), 1A1262
Visualization of solidification process in kinetics control system with interferometry, J Thermophys Heat Transfer 9(3) 537-542 (Sep 1995), 1A1263
Simultaneous iteration procedure for the FE solution of the enthalpy model for phase change heat conduction problems, Int J Numer Methods Heat & Fluid Flow 5(7) 589-600 (Sep 1995), 1A1265
Flow focusing instability in a solidifying mushy layer, J Fluid Mech 297 293-305 (Aug 1995), 2A1116
Contact melting by a non-isothermal heating surface of arbitary shape, Int J Heat Mass Transfer 38(17) 3275-3284 (Nov 1995), 2A1130
Simulation of mechanical response in crystallizing polymers: Crystallization under a constant shear force, Acta Mech 112(1-4) 59-76 (1995), 3A876
Heat transfer in excimer laser melting of thin polysilicon layers, J Heat Transfer 117(3) 708-715 (Aug 1995), 3A1119
Phase transformation in materials with nonuniform phase transition temperatures, J Heat Transfer 117(3) 803-805 (Aug 1995), 3T1120
Statistical mechanical model of solidification, Commun Numer Methods Eng 11(10) 805-812 (Oct 1995), 3A1121
Bounds on solution of one-phase Stefan problems, European J Appl Math 6(5) 509-516 (Oct 1995), 4A935
Frost formation around a vertical cylindor in a wet air stream, J Brazilian Soc Mech Sci 17(2) 135-146 (1995), 4A1185
Criteria for the disappearance of the mushy region in the Stefan problem, Quart Appl Math 53(4) 657-671 (Dec 1995), 4A1207
Numerical solution of the inviscid stagnation-flow solidification problem, Numer Heat Transfer A 28(5) 589-603 (Nov 1995), 4A1208
Solid-liquid phase-change heat transfer around two horizontal, vertically spaced cylinders: An experimental study on the effect of density inversion of water, Heat Transfer Japan Res 23(7) 645-657 (1994), 4A1209
Thermomechanics and the formulation of the Stefan problem for fully faceted interfaces, Quart Appl Math 53(4) 761-782 (Dec 1995), 4A1234
Enhancement of energy charge-discharge rates in composite slabs of different phase change materials, Int J Heat Mass Transfer 39(4) 725-733 (Mar 1996), 5A1169
Long-wave morphological instabilities in directional solidification, European J Appl Math 6(6) 639-652 (Dec 1995), 5A1170
Model of the effect of alloy content on shell strength during solidification of binary alloys, J Thermal Stresses 18(6) 579-602 (Dec 1995), 5A1194
Directional solidification into static stability, J Fluid Mech 304 143-159 (Dec 1995), 6A985
Thermal calculation for anti-icer with micro-ejector, Chinese J Aeronaut 8(1) 74-79 (Feb 1995), 6A1023
Front-tracking method for dendritic solidification, J Comput Phys 123(1) 127-148 (Jan 1996), 6A1120
Stefan and moving front problems, Eng Anal Boundary Elements 16(2) 83-202 (1995), 6A1121
Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, Int J Numer Methods Heat & Fluid Flow 5(10) 907-921 (Dec 1995), 6A1124
Inverse FE reduced mesh method for predicting multi-dimensional phase change boundaries and nonlinear solid phase heat transfer, Int J Heat Mass Transfer 39(5) 1039-1049 (Mar 1996), 6A1127
Stability of cylindrical bodies in the theory of surface diffusion, Physica D 89(1-2) 123-135 (Dec 1995), 6A1181
Directional continuous casting process and its application to Al-1% alloy, J Mat Processing Manuf Sci 4(1) 17-24 (Jul 1995), 7A1248
Phase-field theory for solidification based on a general anisotropic sharp-interface theory with interfacial energy and entropy, Physica D 91(1-2) 143-181 (Mar 1996), 8A7
Collocation method for convective flow induced by directional solidification in a cylinder, Int J Numer Methods Fluids 22(5) 393-409 (Mar 1996), 8A66
Optimal interface for the Bridgman crystallization process, Numer Heat Transfer A 29(3) 227-242 (Feb 1996), 8A1116
Experimental investigation of interfacial thermal conductance for molten metal solidification on a substrate, J Heat Transfer 118(1) 157-163 (Feb 1996), 8A1167
Finite element simulations involving simultaneous multiple interface fronts in phase change problems, Int J Heat Mass Transfer 39(8) 1711-1718 (May 1996), 8A1168
Inviscid stagnation-flow solidification problem, Int J Heat Mass Transfer 39(8) 1591-1602 (May 1996), 8A1169
Numerical analysis of molten metal shape in cold crucibles by 3D FEM, Model Simulation Mat Sci Eng 4(1) 11-22 (Jan 1996), 8A1170
Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, J Heat Transfer 118(1) 164-172 (Feb 1996), 8A1171
Analysis of transport phenomena occurring in rectangular latent heat storage units - Part III: Description of the storage cycle, Prace Inst Maszyn Przeplywowych 6(99) 3-25 (1995), 9A1265
Differential equations of 1D solidification of molten alloy, Bull Polish Acad Sci Tech Sci 43(4) 459-469 (1995), 9A1266
Theoretical and experimental investigations of a supersonic low-density flow over a sphere with surface condensation and evaporation, TsAGI 1(3) 115-121 (1994), 10T1097
Asymptotic behavior for the one-phase Stefan problem with a convective boundary condition, Appl Math letters 9(3) 21-24 (May 1996), 10A1291
Numerical approach to pulsed laser heating of semi-infinite aluminum substance, Heat and Mass Transfer Warme 31(4) 279-282 (Apr 1996), 10A1292
Dynamical patterns in directional solidification, Physica D 93(1-2) 23-51 (May 1996), 11A610
Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, Model Simulation Mat Sci Eng 4(2) 161-177 (Mar 1996), 11A1199
Singularity formation in the 1D supercooled Stefan problem, European J Appl Math 7(2) 119-150 (Apr 1996), 11A1200
Transient heating and melting of particles in plasma spray coating process, J Heat Transfer 118(2) 471-477 (May 1996), 11A1201
Numerical anomalies in simulating directional solidification of binary alloys, Numer Heat Transfer A 29(6) 639-644 (May 1996), 11A1255
Constraining inverse Stefan design problems, Z Angew Math Phys 47(3) 456-466 (May 1996), 12A1242
Determination of unknown coefficients of a semi-infinite material through a simple mushy zone model for the two-phase Stefan problem, Int J Eng Sci 34(7) 799-817 (May 1996), 12A1243
Existence and blow-up of solutions to two-phase nonequilibrium problems, SIAM J Math Anal 27(4) 1038-1048 (Jul 1996), 12A1244
Finite volume method for solute segregation in directional solidification and comparison with a FEM, Comput Methods Appl Mech Eng 131(1-2) 191-207 (Apr 1996), 12A1245

406Y. Computational techniques

Kalman smoothing technique applied to the inverse heat conduction problem, Numer Heat Transfer B 28(1) 79-96 (Aug 1995), 1A1264
Simultaneous iteration procedure for the FE solution of the enthalpy model for phase change heat conduction problems, Int J Numer Methods Heat & Fluid Flow 5(7) 589-600 (Sep 1995), 1A1265
Thermal analysis of microelectric packages and printed circuit boards using an analytic solution to the heat conduction equation, Adv Eng Software 22(2) 99-111 (1995), 1A1266
Axisymmetric heat-conduction analysis under steady state by improved multiple-reciprocity BEM, Heat Transfer Japan Res 23(6) 498-512 (1994), 2A1131
Proper eigenvalue solution for the transient response of multidimensional heat transfer systems, Commun Numer Methods Eng 11(9) 715-725 (Sep 1995), 2A1132
Application of hybrid-Treffz element approach to transient heat conduction analysis, Comput Struct 58(1) 195-201 (Jan 1996), 3A1122
Inverse heat conduction problem for the estimation of the temperature dependence of thermal conductivity, J Brazilian Soc Mech Sci 16(4) 400-406 (1994), 3A1123
Numerical analysis of stability of transient inverse problem for 1D heat transfer equation, Arch Thermodyn 15(1-4) 125-153 (1994), 3A1124
Operator-splitting algorithm for the 3D diffusion equation, Numer Methods PDE 11(6) 617-624 (Nov 1995), 3A1125
Feedback control of a heat diffusion system with time-dependent spatial domain, Optimal Control Appl Methods 16(5) 305-320 (Dec 1995), 4A383
Fast Fourier transform of spectral BEs for transient heat conduction, Int J Numer Methods Heat & Fluid Flow 5(9) 813-827 (Nov 1995), 4A1210
Genetic algorithm in solution of inverse heat conduction problems, Numer Heat Transfer B 28(3) 293-306 (Nov 1995), 4A1211
Numerical uncertainty in heat conduction calculations for a tube immersed in a fluidized bed, Proc Inst Mech Eng C 209(C5) 323-336 (1995), 4A1212
Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), Numer Heat Transfer B 28(3) 277-291 (Nov 1995), 4A1213
Boundary Integral Equation formulation of a linearly layered potential problem, Eng Anal Boundary Elements 16(1) 1-3 (1995), 5A1171
Steady thermal stress analysis by improved multiple-reciprocity BEM, J Thermal Stresses 18(6) 603-620 (Dec 1995), 5A1199
Front-tracking method for dendritic solidification, J Comput Phys 123(1) 127-148 (Jan 1996), 6A1120
Accuracy comparison of control-volume and Bubnov-Galerkin FEMs for heat conduction problems, Numer Heat Transfer B 29(1) 43-60 (Feb 1996), 6A1122
Closed-form solution of the transverse effective thermal conductivity of woven fabric composites, J Composite Mat 29(17) 2280-2294 (1995), 6A1123
Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, Int J Numer Methods Heat & Fluid Flow 5(10) 907-921 (Dec 1995), 6A1124
Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - I: Steady problems, Numer Heat Transfer B 29(1) 61-73 (Feb 1996), 6A1125
Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - II: Partial differential equations, Numer Heat Transfer B 29(1) 75-89 (Feb 1996), 6A1126
Inverse FE reduced mesh method for predicting multi-dimensional phase change boundaries and nonlinear solid phase heat transfer, Int J Heat Mass Transfer 39(5) 1039-1049 (Mar 1996), 6A1127
Inverse thermal modeling using TLM, Numer Heat Transfer B 29(1) 125-135 (Feb 1996), 6A1128
Similar solutions of nonlinear heat conduction equation, Appl Math Mech 16(9) 905-912 (Sep 1995), 6A1129
Inverse problem in predicting temperature dependent heat capacity per unit volume without internal measurements, Int J Numer Methods Eng 39(4) 605-618 (Feb 1996), 7A1249
Performance of preconditioned waveform relaxation techniques for pseudospectral methods, Numer Methods PDE 12(2) 245-263 (Mar 1996), 7A1250
Super-time-stepping acceleration of explicit schemes for parabolic problems, Commun Numer Methods Eng 12(1) 31-42 (Jan 1996), 7A1251
Collocation method for convective flow induced by directional solidification in a cylinder, Int J Numer Methods Fluids 22(5) 393-409 (Mar 1996), 8A66
Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, J Heat Transfer 118(1) 164-172 (Feb 1996), 8A1171
Application of computation of exponential of a matrix in heat transfer (Chinese), J Dalian Univ Tech 35(4) 525-527 (Aug 1995), 8A1172
Dual-reciprocity BE approach to 3D transient heat conduction as applied to materials processing, Numer Heat Transfer A 29(3) 243-264 (Feb 1996), 8A1173
Boundary element analysis of heat conduction and thermal stresses in contact problems using independent meshing, Comput Struct 59(4) 729-741 (May 1996), 9A1267
Inverse heat conduction problem solutions via second-order design sensitivities and Newton's method, Inverse Prob Eng 2(3) 227-262 (1996), 9A1268
Extreme Methods for Solving Ill-Posed Problems with Applications to Inverse Heat Transfer Problems (Begell House, New York, 1995) 10R32
Thermal conductivity measurements on thin films based on micromechanical devices, J Micromech Microeng 6(1) 118-121 (Mar 1996), 10T472
Literature survey on numerical heat transfer: 1992-1993, Numer Heat Transfer A 29(5) 441-484 (Apr 1996), 10A1273
Finite element analysis of the thermal field in the rotor during induction motor start-up, Numer Heat Transfer A 29(5) 525-539 (Apr 1996), 10A1287
Boundary integral formulation for 2D and 3D thermal problems exhibiting a linearly varying stochastic conductivity, Comput Mech 17(6) 406-417 (Apr 1996), 10A1293
Different approach to discretization for the numerical simulation of 3D heat conduction in irregularly shaped materials, Commun Numer Methods Eng 12(4) 223-228 (Apr 1996), 10A1294
Input estimation approach to on-line 2D inverse heat conduction problems, Numer Heat Transfer B 29(3) 345-363 (May 1996), 10A1295
Multidimensional inverse transient heat conduction problems by direct sensitivity coefficient method using a FE scheme, Numer Heat Transfer B 29(3) 365-380 (May 1996), 10A1296
Source-weighted domain integral approximation for linear transient heat conduction, Int J Numer Methods Eng 39(10) 1775-1790 (May 1996), 10A1297
Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 11N45
Superficial heat flux and temperature measurement on a wall (French), Mat Struct 29(188) 219-225 (May 1996), 11A1189
Efficient computational method for modeling transient heat conduction with nonlinear source terms, Appl Math Model 20(7) 513-522 (Jul 1996), 11A1192
Transient heat conduction during quenching of downward facing copper and stainless steel convex surfaces, Numer Heat Transfer A 29(6) 543-573 (May 1996), 11A1193
Integral geometry in hyperbolic spaces and electrical impedance tomography, SIAM J Appl Math 56(3) 755-764 (Jun 1996), 11A1202
Numerical results for the unidimensional heat propagation in a rigid conductor of integral type, Mec Appl 40(2-3) 227-251 (Jun 1995), 11T1203
Use of the elementary heat balance technique in temperature field calculations, Russian Aeronaut 38(3) 95-98 (1995), 11A1204
Analysis-FE combined methodology on transient heat conduction of a finite domain with planar-discrete sources, Numer Heat Transfer B 29(4) 459-478 (Jun 1996), 12A1246
Application of combined BEM-FEM algorithm in numerical modeling of diffusion problems, Comput Mech 18(1) 55-61 (May 1996), 12A1247
Artificial boundary conditions for diffusion equations: Numerical study, J Comput Appl Math 70(1) 127-144 (Jun 1996), 12A1248
New numerical algorithm for temperature measurement based on the variational approach of an optimal control problem, Numer Heat Transfer B 29(4) 423-440 (Jun 1996), 12A1249
Note on the solution to the diffusion equation, Int J Numer Anal Methods Geomech 20(6) 443-452 (Jun 1996), 12A1250
Numerical algorithm for estimating temperature-dependent thermal conductivity, Numer Heat Transfer B 29(4) 509-522 (Jun 1996), 12A1251

406Z. Experimental techniques

Thermal diffusivity and porosity of solid materials by electromagnetic ultrasonic technique - Part 2, Heat Transfer Japan Res 23(6) 556-574 (1994), 2A1227
Determination of the thermal diffusivity of toluene and methanol using laser-induced thermal grating (German), Heat and Mass Transfer Warme 31(1-2) 83-87 (Dec 1995), 6A1130
Experimental research and analysis of coupled conduction-radiation heat exchange in block-polymerized polyamide 6, J Tech Phys 36(3) 317-332 (1995), 6A1131
Energy flowing rate into workpiece surface grinding based on 3D temperature analysis - 1st report: Discussion on temperature distribution in workpiece measured by hole method (Japanese), J Japan Soc Precision Eng 62(1) 90-94 (Jan 1996), 7A751
Investigation of the heat transfer characteristics of a typical annular combustion chamber of an industrial gas turbine, Heat Transfer Eng 16(4) 17-27 (Dec 1995), 7A1252
Transient spherical source method to determine thermal conductivity of liquids and gels, Int J Heat Mass Transfer 39(6) 1135-1140 (Apr 1996), 7A1253
Computer-controlled apparatus for thermal conductivity measurement by the transient hot wire method, J Thermal Anal 46(2) 495-505 (Feb 1996), 8A1174
Measuring thermal properties with the parallel wire method: A comparison of mathematical models, Int J Heat Mass Transfer 39(10) 2009-2013 (Jul 1996), 10A1298
Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, Int J Heat Mass Transfer 39(11) 2311-2317 (Jul 1996), 11A1205

408. RADIATION AND COMBINED MODES

408B. View factors

Comparison of reciprocity and closure enforcement methods for radiation view factors, J Thermophys Heat Transfer 9(4) 660-666 (Dec 1995), 3A1126
Numerical calculation of view factors for an axially symmetrical geometry, Numer Heat Transfer B 28(4) 437-453 (Dec 1995), 5A1176
Efficient evaluation of diffuse view factors for radiation, Int J Heat Mass Transfer 39(6) 1281-1286 (Apr 1996), 7A1254

408C. Theory of radiative properties

Optical properties of thick, turbid media from picosecond time-resolved light scattering measurements, Int J Heat Mass Transfer 38(14) 2569-2581 (Sep 1995), 1A1267
Two-parameter wideband spectral model for the absorption coefficients of molecular gases, J Thermophys Heat Transfer 9(3) 569-573 (Sep 1995), 1T1268
Polarization characteristics of non-Gaussian scattering by small particles, Waves in Random Media 5(4) 427-442 (Oct 1995), 3A1127
Surface length scale contributions to the directional and hemispherical emissivity and reflectivity, J Thermophys Heat Transfer 9(4) 653-659 (Dec 1995), 3A1128
Effect of wall emissivities on radiation heat transfer in glass tank forehearths, Heat and Mass Transfer Warme 31(1-2) 11-15 (Dec 1995), 6A1132
Measurements of radiative properties of cellular ceramics at high temperatures, J Thermophys Heat Transfer 10(1) 33-38 (Mar 1996), 6A1133
Radiative properties of films using partial coherence theory, J Thermophys Heat Transfer 10(1) 26-32 (Mar 1996), 6A1134
Absorption-scattering coefficients and scattering phase functions in reticulated porous ceramics, J Heat Transfer 118(1) 79-87 (Feb 1996), 8A1178
Application of a genetic algorithm to the optical characterization of propellant smoke, J Thermophys Heat Transfer 10(2) 372-377 (Jun 1996), 10A1299
Assessment of a differential total absorptivity solution to the radiative transfer equation as applied in the discrete transfer radiation model, Numer Heat Transfer B 29(3) 381-397 (May 1996), 10A1300
Calculation and experimental verification of the infrared transmission coefficient of straight cylindrical metal tubes, J Heat Transfer 118(2) 495-497 (May 1996), 11T1206
Comparison of experiment with Monte Carlo simulations on a reflective gap using a detailed surface properties model, J Heat Transfer 118(2) 388-393 (May 1996), 11A1207
Quartz-fiber thermal insulation: Infrared radiative properties and calculation of radiative-conductive heat transfer, J Heat Transfer 118(2) 408-414 (May 1996), 11A1208
Reordering the absorption coefficient within the wide band for predicting gaseous radiant exchange, J Heat Transfer 118(2) 394-400 (May 1996), 11A1209
Spectral extinction coefficients of soot aggregates from turbulent diffusion flames, J Heat Transfer 118(2) 415-421 (May 1996), 11A1210
Thermal radiative properties of liquid metal alloys from measurement data of Hall coefficients and DC resistivities, Exp Heat Transfer 9(1) 1-10 (Mar 1996), 12A1252

408D. Interchange among surfaces

Improved method for smoothing approximate exchange areas, Int J Heat Mass Transfer 38(16) 3109-3110 (Nov 1995), 1T1269
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1 (ASME Press, New York, 1995) 3N32
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2 (ASME Press, New York, 1995) 3N33
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3 (ASME Press, New York, 1995) 3N34
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 4 (ASME Press, New York, 1995) 3N35
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5 (ASME Press, New York, 1995) 3N36
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 6 (ASME Press, New York, 1995) 3N37
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 7 (ASME Press, New York, 1995) 3N38
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 8 (ASME Press, New York, 1995) 3N39
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9 (ASME Press, New York, 1995) 3N40
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10 (ASME Press, New York, 1995) 3N41
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11 (ASME Press, New York, 1995) 3N42
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12 (ASME Press, New York, 1995) 3N43
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13 (ASME Press, New York, 1995) 3N44
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14 (ASME Press, New York, 1995) 3N45
Monte Carlo solutions for radiative heat transfer in irregular 2D geometries, J Heat Transfer 117(3) 792-794 (Aug 1995), 3T1129
Direct least-square solutions to integral equations containing discrete data, J Thermophys Heat Transfer 10(1) 182-186 (Mar 1996), 6T1135
Radiative exchange between square parallel channels in a concentric monolith structure, Int J Heat Mass Transfer 39(7) 1463-1474 (May 1996), 7A1255
Parametric study of radiative heat transfer in arrays of fixed discrete surfaces, J Heat Transfer 118(1) 228-230 (Feb 1996), 8T1175
Radiative heat transfer calculations in 3D complex geometries, J Heat Transfer 118(1) 225-228 (Feb 1996), 8T1176
Two-flux and diffusion methods for radiative transfer in composite layers, J Heat Transfer 118(1) 218-222 (Feb 1996), 8T1177
Optimum design of radiating rectangular plate fin array extending from a plane wall, J Heat Transfer 118(2) 490-493 (May 1996), 11T1211
Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, J Heat Transfer 118(2) 401-407 (May 1996), 11A1213
Numerical analysis of a cavity radiator with mutual interaction, Appl Math Model 20(6) 476-484 (Jun 1996), 11A1218

408E. Involvement of participating media

Scattering characteristics of fibrous media containing closely spaced parallel fibers, J Thermophys Heat Transfer 9(3) 403-409 (Sep 1995), 1A1270
Evaluation of an improved hybrid six-flux and zone model for radiative transfer in rectangular enclosures, Int J Heat Mass Transfer 38(18) 3423-3431 (Dec 1995), 2A1133
Line-by-line calculations of the absorption of infrared radiation by water vapor in a box-shaped enclosure filled with humid air, Int J Heat Mass Transfer 38(17) 3127-3134 (Nov 1995), 2A1134
Comparison of theory with atomic oxygen radiance data from a rocket flight, J Thermophys Heat Transfer 9(4) 629-635 (Dec 1995), 3A992
Chebyshev series solution for radiative transport in a medium with a linearly anisotropic scattering phase function, Int J Numer Methods Heat & Fluid Flow 5(8) 685-704 (Oct 1995), 3A1130
Effect of line Doppler shift on plume infrared signatures, J Thermophys Heat Transfer 9(4) 636-643 (Dec 1995), 3A1131
Radiometric measurements of wall temperatures in the 800 K to 1150 K range for a quartz radiant heating tube, J Heat Transfer 117(3) 795-797 (Aug 1995), 3T1132
Spectral-line weighted-sum-of-gray-gases model for H_2O/CO_2 mixtures, J Heat Transfer 117(3) 788-792 (Aug 1995), 3T1133
Investigation of dependent-independent scattering regimes using a discrete dipole approximation, Int J Heat Mass Transfer 39(4) 811-822 (Mar 1996), 5A1172
Predictions of radiative transfer in 2D nonhomogeneous participating cylindrical media, J Thermophys Heat Transfer 10(1) 47-53 (Mar 1996), 6A1136
Temperature distributions in semitransparent coatings: A special two-flux solution, J Thermophys Heat Transfer 10(1) 39-46 (Mar 1996), 6A1137
Two-flux method for transient radiative transfer in a semi-transparent layer, Int J Heat Mass Transfer 39(5) 1111-1115 (Mar 1996), 6T1138
Temperature and soot concentration in a high soot density flame, Int J Heat Mass Transfer 39(6) 1235-1241 (Apr 1996), 7A1256
Modeling effects of soot and turbulence-radiation coupling on radiative transfer in turbulent gaseous combustion, Combust Sci Tech 109(1-6) 121-140 (Nov 1995), 7A1334
Absorption-scattering coefficients and scattering phase functions in reticulated porous ceramics, J Heat Transfer 118(1) 79-87 (Feb 1996), 8A1178
Correlation of measured and computed radiation intensity exiting a packed bed, J Heat Transfer 118(1) 94-102 (Feb 1996), 8A1179
Local analytical discrete ordinate method for the solution of the radiative transfer equation, Int J Heat Mass Transfer 39(9) 1859-1864 (Jun 1996), 8A1180
Radiative Heat Transfer - Proc of 1st Int Symp on Radiative Heat Transfer (Begell House, New York, 1996) 10N38
Assessment of a differential total absorptivity solution to the radiative transfer equation as applied in the discrete transfer radiation model, Numer Heat Transfer B 29(3) 381-397 (May 1996), 10A1300
Wideband correlated-k method applied to absorbing, emitting, and scattering media, J Thermophys Heat Transfer 10(2) 364-371 (Jun 1996), 10A1301

408F. Combined radiation and convection

Effects of variable property and surface radiation on laminar natural convection in a square enclosure, Int J Numer Methods Heat & Fluid Flow 5(7) 615-627 (Sep 1995), 1A1271
Numerical and experimental analysis of combined convective and radiative heat transfer in laminar flow over a circular cylinder, Int J Heat Mass Transfer 38(17) 3161-3169 (Nov 1995), 2A1135
Comparison of coupled radiative flow solutions with Project Fire II flight data, J Thermophys Heat Transfer 9(4) 586-594 (Dec 1995), 3A1134
Cooling of water flowing through a night sky radiator, Solar Energy 55(4) 235-253 (Oct 1995), 3A1135
Projectile fin damage from propellant combustion, J Thermophys Heat Transfer 9(4) 784-789 (Dec 1995), 3A1136
Viscous normal shock solutions including chemical, thermal, and radiative nonequilibrium, J Thermophys Heat Transfer 9(4) 577-585 (Dec 1995), 3A1137
Combined laminar forced convection and nongray-radiation heat transfer to carbon dioxide flowing in a nonblack, plane-parallel duct, Numer Heat Transfer A 28(5) 575-587 (Nov 1995), 4A1214
Strong converging shock waves in a radiating gas, Z Angew Math Mech 75(11) 847-859 (1995), 5A215
Combined heat transfer in disperse systems with particles undergoing a metal-insulator transition, Heat Transfer Res 25(7) 922-924 (1993), 5A1173
Experimental study of free convection and radiation in horizontal fin arrays, Int J Heat Mass Transfer 39(4) 779-789 (Mar 1996), 5A1174
Aerospace plane cooling with H_2, CH_4, He, Ne, N_2, and Ar, J Thermophys Heat Transfer 10(1) 119-125 (Mar 1996), 6A1139
Thermal response of radiantly heated spinning spacecraft booms, J Thermophys Heat Transfer 10(1) 60-68 (Mar 1996), 6A1140
Parametric analysis of radiative-convective heat transfer around a circular cylinder in a cross flow using the finite volume radiation solution method, Numer Heat Transfer A 29(2) 181-196 (Feb 1996), 7A1257
Radiative ignition of volatile gases on a vertical fuel plate, Combust Sci Tech 109(1-6) 309-325 (Nov 1995), 7A1258
Radiation effect on mixed convection along a vertical plate with uniform surface temperature, Heat and Mass Transfer Warme 31(4) 243-248 (Apr 1996), 10A1264
Approximate method for combined forced-convection and radiation heat transfer in absorbing and emitting gases flowing in a black, plane-parallel duct, Int J Heat Mass Transfer 39(10) 2191-2193 (Jul 1996), 10T1302
Turbulent natural convection-nongray gas radiation analysis in a square enclosure, Numer Heat Transfer A 29(7) 671-687 (May 1996), 12A1253

408G. Combined radiation and conduction

Implicit solution method for a cumulative variable formulation to radiative-conductive transport, J Thermophys Heat Transfer 9(3) 558-560 (Sep 1995), 1T1272
Thermal response of thin-film high-T_c superconductors to modulated irradiation, J Thermophys Heat Transfer 9(3) 397-402 (Sep 1995), 1A1273
Generalized lagging response in small-scale and high-rate heating, Int J Heat Mass Transfer 38(17) 3231-3240 (Nov 1995), 2A1136
Theoretical study of the transient coupled conduction and radiation heat transfer in glass: Phonic diffusivity measurements by the flash technique, Int J Heat Mass Transfer 38(18) 3401-3412 (Dec 1995), 2A1137
Vaporization of dilating non-ideal binary droplets with radiation absorption, J Brazilian Soc Mech Sci 16(4) 437-444 (1994), 3A1095
Approximate formulation for coupled conduction and radiation through a medium with arbitary optical thickness, J Heat Transfer 117(3) 797-799 (Aug 1995), 3T1138
Derivation of the Casimir limit phonon distribution using the Boltzmann transport equation, J Heat Transfer 117(3) 751-755 (Aug 1995), 3T1139
Pulsed laser heating of highly absorbing particles, J Heat Transfer 117(3) 785-788 (Aug 1995), 3T1140
Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part I: Prodictions assuming independent scattering, J Heat Transfer 117(3) 674-680 (Aug 1995), 3A1141
Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part II: Dependent scattering effect, J Heat Transfer 117(3) 681-686 (Aug 1995), 3A1142
Transient heat transfer in a semitransparent radiating layer with boundary convection and surface reflections, Int J Heat Mass Transfer 39(1) 69-79 (Jan 1996), 3A1143
Modeling microwave heating, Appl Math Model 20(1) 3-15 (Jan 1996), 5A1175
Coupled radiative and conductive thermal transfers across transparent honeycomb insulation materials, Appl Thermal Eng 16(3) 209-217 (Mar 1996), 6A1141
Microwave heating of carbon-coated ceramic fibers: A mathematical model, IMA J Appl Math 55(3) 243-255 (1995), 6A1142
Research on theory and test on defrosting soil using microwave power (Chinese), J Dalian Univ Tech 35(1) 104-107 (Feb 1995), 8A536
Heat transfer in open-cell foam insulation, J Heat Transfer 118(1) 88-93 (Feb 1996), 8A1181
Method for the solution of the coupled inverse heat conduction-radiation problem, J Heat Transfer 118(1) 10-17 (Feb 1996), 8A1182
Radiation-conduction interaction: An investigation on silica aerogels, Int J Heat Mass Transfer 39(10) 2115-2130 (Jul 1996), 10A1303
Quartz-fiber thermal insulation: Infrared radiative properties and calculation of radiative-conductive heat transfer, J Heat Transfer 118(2) 408-414 (May 1996), 11A1208
Correlation of combined radiation and conduction in evacuated honeycomb-cored panels, J Solar Energy Eng 118(2) 97-100 (May 1996), 11A1212

408H. Combined radiation, convection, and conduction

Numerical simulation of heat transfer and fluid flow with thermal radiation between surfaces of arbitary shape, Heat Transfer Japan Res 23(7) 575-594 (1994), 4A1215
Three-dimensional modeling of transient heat transfer in a soaking pit, Numer Heat Transfer A 28(5) 605-617 (Nov 1995), 4A1216
Combined natural convection-conduction and radiation heat transfer in a discretely-heated open cavity, J Heat Transfer 118(1) 56-64 (Feb 1996), 8A1183
Natural convection in L corners with surface radiation and conduction, J Heat Transfer 118(1) 222-225 (Feb 1996), 8T1184
Thermal erosion of magnetoplasmadynamic thruster cathode, Int J Heat Mass Transfer 39(8) 1767-1769 (May 1996), 8T1185
Multi-zone simulation of the Bridgman growth process of β-NiAl crystal, Int J Heat Mass Transfer 39(10) 2039-2051 (Jul 1996), 10A1304
Thermal model for the rotary kiln including heat transfer within the bed, Int J Heat Mass Transfer 39(10) 2131-2147 (Jul 1996), 10A1378
Numerical analysis of conduction, convection, and radiation in a gradually expanding channel, Numer Heat Transfer A 29(7) 725-740 (May 1996), 12A1254
Thermal development of radiatively active pipe flow with nonaxisymmetric circumferential convective heat loss, Int J Heat Mass Transfer 39(14) 2969-2976 (Sep 1996), 12A1255

408Y. Computational techniques

Finite volume radiative heat transfer procedure for irregular geometries, J Thermophys Heat Transfer 9(3) 410-415 (Sep 1995), 1A1274
Semianalytical polynomial interpolation method for the efficient solution of the radiative heat transfer equation, Numer Heat Transfer B 28(1) 97-110 (Aug 1995), 1A1275
Diffraction splitter of laser radiation with high splitting coefficient, J Tech Phys 36(2) 149-152 (1995), 3A1144
Integro-differential model for the heat transfer in forest fires, J Brazilian Soc Mech Sci 16(4) 393-399 (1994), 3A1234

Numerical calculation of view factors for an axially symmetrical geometry, Numer Heat Transfer B 28(4) 437-453 (Dec 1995), 5A1176
Simple approach to non-gray gas modeling, Numer Heat Transfer B 29(1) 113-123 (Feb 1996), 6A1143
Inverse Thermal Problems (Comput Mech, Billerica MA, 1995) 7R27
Parallel computation of radiation view factors between two arbitrarily oriented surfaces, Commun Numer Methods Eng 12(1) 43-50 (Jan 1996), 7A1259
Determination of the radiative boundary conditions on the surface of an enclosure, Inverse Prob Eng 2(2) 155-170 (1995), 8A1186
Literature survey on numerical heat transfer: 1992-1993, Numer Heat Transfer A 29(5) 441-484 (Apr 1996), 10A1273
Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, J Heat Transfer 118(2) 401-407 (May 1996), 11A1213
Monte Carlo simulation of radiative heat transfer in arrays of fixed discrete surfaces using cell-to-cell photon transport, Int J Heat Mass Transfer 39(13) 2811-2819 (Sep 1996), 11A1214

408Z. Experimental techniques

Atomic species radiation from air modeled with direct simulation Monte Carlo method, J Thermophys Heat Transfer 9(3) 456-463 (Sep 1995), 1A1021
Indirect determination of heat flux to a lander heat protection system, J Thermophys Heat Transfer 9(3) 494-498 (Sep 1995), 1A1276
Theoretical study of the transient coupled conduction and radiation heat transfer in glass: Phonic diffusivity measurements by the flash technique, Int J Heat Mass Transfer 38(18) 3401-3412 (Dec 1995), 2A1137
New instrument for radiation heat flux measurement: Analysis and parameter selection, Heat Recovery Syst CHP 15(8) 787-796 (Nov 1995), 2A1138
Non-cooled (Hg, Cd) Te detectors of 10.6 μm radiation in direct and heterodyne detection, J Tech Phys 36(2) 165-171 (1995), 3A1145
Measurements of radiative properties of cellular ceramics at high temperatures, J Thermophys Heat Transfer 10(1) 33-38 (Mar 1996), 6A1133
FT-IR measurements of emissivity and temperature during high flux solar processing, J Solar Energy Eng 118(1) 20-29 (Feb 1996), 7A1260
Measurement and use of bi-directional reflectance, Int J Heat Mass Transfer 39(6) 1149-1156 (Apr 1996), 7A1261
Surface temperature measurement using infrared radiometer by applying a pseudo-gray-body approximation: Estimation of radiative property for metal surface, J Heat Transfer 118(1) 73-78 (Feb 1996), 8A1187
Effective emittance for Cassini multilayer insulation blankets and heat loss near seams, J Thermophys Heat Transfer 10(2) 357-363 (Jun 1996), 10A1305
Examination of OH ultraviolet radiation from shock-heated air, J Thermophys Heat Transfer 10(2) 200-208 (Jun 1996), 10A1306
Spectral-directional emittance of oxidized copper, J Thermophys Heat Transfer 10(2) 343-349 (Jun 1996), 10A1307

410. DEVICES AND SYSTEMS

410B. Heat exchangers (recuperator)

Optimal allocation of a heat-exchanger inventory in heat driven refrigerators, Int J Heat Mass Transfer 38(16) 2997-3004 (Nov 1995), 1A1154
Hyberbolic axial dispersion model: Concept and its application to a plate heat exchanger, Int J Heat Mass Transfer 38(16) 3065-3076 (Nov 1995), 1A1254
Characteristics of a plate-fin heat exchanger with phase change materials, J Enhanced Heat Transfer 2(4) 273-281 (1995), 2A1139
Influence of heat leak location on performance of cryogenic liquefier: Heuristic rules for troubleshooting by an expert system, Heat Transfer Eng 16(2) 35-41 (Jun 1995), 2A1140
Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), J Brazilian Soc Mech Sci 17(1) 14-25 (1995), 3A932
Investigation of flow and heat transfer in corrugated passages - II: Numerical simulations, Int J Heat Mass Transfer 39(1) 165-192 (Jan 1996), 3A1029
Closed two-phase thermosyphons for industrial heat transfer: Fundamental questions for effective application, Arch Thermodyn 15(1-4) 21-39 (1994), 3A1146
Compact buffer zone plate-fin IHX - The key component for high-temperature nuclear process heat realization with advanced MHR, Appl Thermal Eng 16(1) 3-32 (Jan 1996), 3A1147
Condensation of saturated vapors on horizontal helically formed tubes of elliptical cross section, Arch Thermodyn 15(1-4) 5-19 (1994), 3A1148
Investigation of flow and heat transfer in corrugated passages - I: Experimental results, Int J Heat Mass Transfer 39(1) 149-164 (Jan 1996), 3A1149
Theoretical analysis of the thermal resistance of non-uniform fouling on cross-flow heat exchanger tubes, Appl Thermal Eng 16(1) 43-50 (Jan 1996), 3A1150
Heat transfer, condensation, and fog formation in crossflow plastic heat exchangers, Int J Heat Mass Transfer 39(2) 391-405 (Jan 1996), 4A1217
Thermal and fluid-dynamic behavior of double-pipe condensers and evaporators: A numerical study, Int J Numer Methods Heat & Fluid Flow 5(9) 781-795 (Nov 1995), 4A1218
Advances in Enhanced Heat-Mass Transfer and Energy Efficiency, HTD-Vol 320-Vol 1 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 5N28
Part-load operation of combined cycle plants with and without supplementary firing, J Eng Gas Turbines Power 117(3) 475-483 (Jul 1995), 5A1038
Analysis for the optimal performance of three-channel split-flow heat exchangers, Int J Heat Mass Transfer 39(4) 691-705 (Mar 1996), 5A1177
Knowledge-based expert system for fouling assessment of industrial heat exchangers, Appl Thermal Eng 16(3) 203-208 (Mar 1996), 6A1144
Performance of direct-contact heat and mass exchangers with steam-gas mixtures at subatmospheric pressures, Int J Heat Mass Transfer 39(5) 965-973 (Mar 1996), 6A1145
Performance of novel compact heat exchangers with highly extended surfaces, Appl Thermal Eng 16(3) 245-254 (Mar 1996), 6A1146
Thermal analysis of a helical heat exchanger for ground thermal energy storage in arid zones, Int J Heat Mass Transfer 39(5) 1051-1065 (Mar 1996), 6A1147
Application of uncertainty analysis to cross-flow heat exchanger performance predictions, Heat Transfer Eng 16(4) 50-62 (Dec 1995), 7A1262
Dynamic mathematical model study of the plate-fin humid heat exchanger, Chinese J Aeronaut 8(3) 179-184 (Aug 1995), 7A1263
Plume recirculation in mechanical-draft air-cooled heat exchangers, Heat Transfer Eng 16(4) 42-49 (Dec 1995), 7A1264
Air-side performance of brazed aluminum heat exchangers, J Enhanced Heat Transfer 3(1) 15-28 (1996), 8A1188
Global performance of a prototype brazed plate heat exchanger in a large Reynolds number range, Exp Heat Transfer 8(4) 293-311 (Dec 1995), 8A1189
Heat-rate improvements obtained by retubing condensers with new, enhanced tube types, J Enhanced Heat Transfer 3(2) 83-94 (1996), 8A1190
Improving the performance of adsorption heat exchangers using a finned structure, Int J Heat Mass Transfer 39(8) 1677-1686 (May 1996), 8A1191
New method for HENs with different film heat transfer coefficients: Pseudo-temperature (Chinese), J Dalian Univ Tech 35(2) 203-207 (Apr 1995), 8A1192
Perforated trapezoidal fins for tube-in-fin heat exchangers: Heat transfer and pressure drop characteristics, J Enhanced Heat Transfer 3(2) 109-117 (1996), 8A1193
Review of patents in Europe, Japan, and the US: 1993-1994, J Enhanced Heat Transfer 3(1) 1-13 (1996), 8A1198
Cooling of a 2D space with one or more streams making one or more passes, Int J Heat Fluid Flow 17(1) 78-88 (Feb 1996), 8A1220
Failure analysis and life prediction of a large, complex plate fin heat exchanger, Eng Failure Anal 3(1) 29-43 (Mar 1996), 9A762
Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, J Fluids Eng 118(1) 103-109 (Mar 1996), 9A1269
Helical baffles in shell-and-tube heat exchangers - Part I: Experimental verification, Heat Transfer Eng 17(1) 93-101 (Mar 1996), 10A1308
Microencapsulated phase-change material suspensions for heat transfer in spacecraft thermal systems, J Spacecraft Rockets 33(2) 278-284 (Apr 1996), 10A1309
Thermal performance reduction in air-cooled heat exchangers due to nonuniform flow and temperature distributions, Heat Transfer Eng 17(1) 82-92 (Mar 1996), 10A1310
Thermal performances of codirected cross-flow heat exchangers, Heat and Mass Transfer Warme 31(4) 215-222 (Apr 1996), 10A1311
Transient analysis of multipass crossflow heat exchangers, Heat and Mass Transfer Warme 31(4) 223-230 (Apr 1996), 10A1312
Transient response of a parallel flow shell-and-tube heat exchanger and its control, Heat and Mass Transfer Warme 31(4) 231-235 (Apr 1996), 10A1313
Analysis of the performances of heat exchangers used in hot-water stores, Appl Thermal Eng 16(7) 605-611 (Jul 1996), 11A1215
LMTD correction factor for single-pass crossflow heat exchangers with both fluids unmixed, J Heat Transfer 118(2) 488-490 (May 1996), 11T1216
Determination of the fixed bed wall heat transfer coefficient using computational fluid dynamics, Numer Heat Transfer A 29(8) 777-794 (Jun 1996), 12A1256
Flow distortions at the fan inlet of forced-draught air-cooled heat exchangers, Appl Thermal Eng 16(8-9) 741-752 (Sep 1996), 12A1257
Heat transfer and friction characteristics of convex-louver fin-and-tube heat exchangers, Exp Heat Transfer 9(1) 61-78 (Mar 1996), 12A1258
Numerical and experimental studies of 3D plate-fin and tube heat exchangers, Int J Heat Mass Transfer 39(14) 3057-3066 (Sep 1996), 12A1259
Study of ultrasonic wave propagation through parallel arrays of immersed tubes, J Sound Vib 193(5) 1049-1068 (Jun 1996), 12A1260

410C. Heat exchangers (regenerators)

Stratified flow model for adiabatic losses in regenerative thermal devices, J Energy Resources Tech 117(2) 150-155 (Jun 1995), 1A1277
Thermal performance of cyclic regenerators operating under varying inlet temperature conditions, Exp Heat Transfer 8(1) 1-15 (Mar 1995), 1A1278
Thermal-stress state of heat-sensitive ceramic tubular systems in the case of convective heat exchange, J Appl Math Mech 59(1) 159-163 (1995), 1A1279
Near-isothermal regenerator: A perturbation analysis, J Thermophys Heat Transfer 9(4) 749-756 (Dec 1995), 3A1151
Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, J Flow Visualization Image Proc 2(2) 125-133 (1995), 5T1293
Mesh generation and numerical simulation of fluid entering a large tube bundle, J Thermophys Heat Transfer 10(1) 109-118 (Mar 1996), 6A912
Dependence of heat transfer coefficients on the wall temperature shape and consequences for the calculation of overall heat transfer coefficients for heat exchangers (German), Heat and Mass Transfer Warme 31(3) 153-161 (Feb 1996), 8A1194
Momentum and heat transfer by forced convection in fixed beds of granular active carbon, Appl Thermal Eng 16(5) 419-427 (May 1996), 8A1195
Performance estimation of convective thermal wave adsorption cycles, Appl Thermal Eng 16(5) 429-437 (May 1996), 8A1196
Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, J Fluids Eng 118(1) 103-109 (Mar 1996), 9A1269
Thermal and hydraulic characteristics of microchannel porous structures, Heat Transfer Res 25(8) 945-949 (1993), 10A1270
Numerical evaluation of plate heat exchanger performance in geothermal district heating systems, Proc Inst Mech Eng A 210(A2) 139-147 (1996), 10A1314
Mean fluid temperatures in direct contact heat exchangers without phase change, Int J Heat Mass Transfer 39(13) 2745-2750 (Sep 1996), 11A1217

410D. Extended surfaces

Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995 (Comput Mech, Billerica MA, 1995) 1N35
Local heat transfer in bundles of transversely finned tubes, Heat Transfer Res 25(6) 825-835 (1993), 1A1168
Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, Numer Heat Transfer A 28(2) 133-146 (Aug 1995), 1A1173
Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, Numer Heat Transfer A 28(2) 147-155 (Aug 1995), 1A1174
Industrial and Environmental Applications of Fluid Mechanics - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 2N41
Heat transfer enhancement in annular channels with helical and longitudinal fins, Heat Transfer Eng 16(2) 29-34 (Jun 1995), 2A1088
Enhancement technique for natural-convection heat transfer from vertical finned plates, Heat Transfer Japan Res 23(6) 513-524 (1994), 2A1094
Design and Analysis of Heat Sinks (Wiley, New York, 1995) 3R29
Heat transfer by plate spacers in plate-fin heat exchangers, Heat and Mass Transfer Warme 30(6) 461-465 (Sep 1995), 3A1152
Enhancement of natural convection heat transfer from an array of discrete heat sources, Int J Heat Mass Transfer 39(3) 479-490 (Feb 1996), 4A1147
Multidimensional steady conduction in convecting, radiating, and convecting-radiating fins and fin assemblies, Heat Transfer Eng 16(3) 32-64 (Sep 1995), 4A1197
Fin efficiency and mechanisms of heat exchange through fins in multi-stream plate-fin heat exchangers: Formulation, Int J Heat Mass Transfer 39(2) 419-428 (Jan 1996), 4A1219
Fin on a pipe (insulated tip): Minimum conditions for fin to be beneficial, Heat Transfer Eng 16(3) 65-75 (Sep 1995), 4A1220
Periodic heat transfer in a vertical plate fin cooled by a forced convective flow, Int J Heat Mass Transfer 39(2) 429-435 (Jan 1996), 4A1221
Quest for the optimum longitudinal fin profile, Heat Transfer Eng 16(3) 19-29 (Sep 1995), 4T1222
Reply: Quest for the optimum longitudinal fin profile, Heat Transfer Eng 16(3) 30-31 (Sep 1995), 4T1223
Experimental study of free convection and radiation in horizontal fin arrays, Int J Heat Mass Transfer 39(4) 779-789 (Mar 1996), 5A1174
Enhancement of natural-convection heat transfer from a horizontal heated plate using grid fins, Heat Transfer Japan Res 23(8) 756-768 (1994), 7A1265
Transformer cooler performance: Analysis and experiment, Heat Transfer Eng 16(4) 28-41 (Dec 1995), 7A1266
Heat sinks with sloped plate fins in natural and forced convection, Int J Heat Mass Transfer 39(9) 1773-1783 (Jun 1996), 8A1074
Laminar-mixed convection heat transfer in externally-finned pipes, J Enhanced Heat Transfer 3(1) 29-42 (1996), 8A1093
Performance and optimum dimensions of different cooling fins with a temperature-dependent heat transfer coefficient, Int J Heat Mass Transfer 39(9) 1993-2003 (Jun 1996), 8A1197
Review of patents in Europe, Japan, and the US: 1993-1994, J Enhanced Heat Transfer 3(1) 1-13 (1996), 8A1198
Periodic heat transfer in the fins with variable thermal parameters, Appl Math Mech 17(2) 169-180 (Feb 1996), 9A1270
Natural convection from a cylinder with multiple, low-conductivity, longitudinal baffles, Int J Heat Mass Transfer 39(10) 2077-2086 (Jul 1996), 10A1253
Heat removal from tubes with externally, longitudinal fins: Distributed and lumped models, J Thermophys Heat Transfer 10(2) 378-380 (Jun 1996), 10T1315
Surface convection coefficients for building facades with vertical mullion-type protrusions, Proc Inst Mech Eng A 210(A2) 165-176 (1996), 10A1316
Local convective behavior and fin efficiency in shallow banks of in-line and staggered, annularly finned tubes, J Heat Transfer 118(2) 317-326 (May 1996), 11A1100
Performance indicators for steady-state heat transfer through fin assemblies, J Heat Transfer 118(2) 310-316 (May 1996), 11A1102
Numerical analysis of a cavity radiator with mutual interaction, Appl Math Model 20(6) 476-484 (Jun 1996), 11A1218
Single-phase heat transfer and pressure drop characteristics of an integral-spine fin within an annulus, J Enhanced Heat Transfer 3(3) 201-210 (1996), 11A1219
Errors in 1D fin optimization problem for convective heat transfer, Int J Heat Mass Transfer 39(14) 3075-3078 (Sep 1996), 12T1261

410E. Other augumentation techniques

Jet cooling of ribbed walls of molds for producing corrugated pipes and hoses, Heat Transfer Res 25(6) 816-824 (1993), 1A1167
Heat transfer and fluid flow characteristics of plate-array aligned at angles to the flow direction, Int J Heat Mass Transfer 38(16) 3053-3063 (Nov 1995), 1A1178
Enhancement of heat transfer in steam generating tubes, Heat Transfer Res 25(6) 810-815 (1993), 1A1280
Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, Heat Transfer Res 25(6) 728-731 (1993), 1A1281
Heat transfer to emulsion with a low-boiling disperse phase, Heat Transfer Res 25(6) 786-789 (1993), 1A1282
Experimental study of the heat transfer enhancement of an outer tube with an inner-tube insertion, Int J Heat Mass Transfer 38(18) 3443-3454 (Dec 1995), 2A1087
Turbulent flow calculations of mixed convection in a periodically-ribbed channel, J Enhanced Heat Transfer 2(4) 295-305 (1995), 2A1101
Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, J Enhanced Heat Transfer 2(4) 263-271 (1995), 2A1109

Experimental study on mass-heat transfer of circular jet impingement in cubical cavities, J Enhanced Heat Transfer 2(4) 251-261 (1995), 2A1163
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1 (ASME Press, New York, 1995) 3N32
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2 (ASME Press, New York, 1995) 3N33
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3 (ASME Press, New York, 1995) 3N34
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 4 (ASME Press, New York, 1995) 3N35
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5 (ASME Press, New York, 1995) 3N36
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 6 (ASME Press, New York, 1995) 3N37
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 7 (ASME Press, New York, 1995) 3N38
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 8 (ASME Press, New York, 1995) 3N39
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9 (ASME Press, New York, 1995) 3N40
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10 (ASME Press, New York, 1995) 3N41
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11 (ASME Press, New York, 1995) 3N42
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12 (ASME Press, New York, 1995) 3N43
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13 (ASME Press, New York, 1995) 3N44
Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14 (ASME Press, New York, 1995) 3N45
Heat transfer enhancement in a channel with a built-in rectangular cylinder, Heat and Mass Transfer Warme 30(6) 423-427 (Sep 1995), 3A1027
Heat transfer enhancement in narrow channels using 2D and 3D mixing devices, J Heat Transfer 117(3) 590-596 (Aug 1995), 3A1028
Heat transfer enhancement through liquid film evaporation into countercurrent moist air flow in a vertical plate channel, Heat and Mass Transfer Warme 30(6) 473-480 (Sep 1995), 3A1091
Embedded vortices in internal flow: Heat transfer and pressure loss enhancement, Int J Heat Fluid Flow 16(5) 376-388 (Oct 1995), 5A1139
Enhancement of heat transfer due to bubbles passing through a narrow vertical rectangular channel: Change in heat transfer along flow, Heat and Mass Transfer Warme 31(1-2) 77-82 (Dec 1995), 6A1148
Analytical method to determine the liquid-film thickness produced by gas-atomized sprays, J Heat Transfer 118(1) 255-258 (Feb 1996), 8T1135
Theoretical and experimental studies on the pseudo-dropwise condensation of a binary vapor mixture, J Heat Transfer 118(1) 140-147 (Feb 1996), 8A1143
Enhancement of evaporation of a liquid droplet using EHD effect: Criteria for instability of gas-liquid interface under electric field, J Enhanced Heat Transfer 3(1) 73-81 (1996), 8A1146
Thickness of the liquid film formed by a growing bubble in a narrow gap between two horizontal plates, J Heat Transfer 118(1) 132-139 (Feb 1996), 8A1148
Electrohydrodynamically enhanced heat transfer in pool boiling, J Heat Transfer 118(1) 233-237 (Feb 1996), 8T1150
Review of patents in Europe, Japan, and the US: 1993-1994, J Enhanced Heat Transfer 3(1) 1-13 (1996), 8A1198
Heat transfer enhancement by longitudinal vortices in a fin-tube heat exchanger element with flat tubes, J Heat Transfer 118(1) 209-211 (Feb 1996), 8T1199
Heat transfer enhancement in a converging passage with discrete ribs, Int J Heat Mass Transfer 39(8) 1719-1727 (May 1996), 8A1200
Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, J Fluids Eng 118(1) 103-109 (Mar 1996), 9A1269
General equation for the design of capillary tubes, J Fluids Eng 118(1) 150-154 (Mar 1996), 9A1271
Turbulent forced convection in a helicoidal pipe with substantial pitch, Int J Heat Mass Transfer 39(10) 2015-2022 (Jul 1996), 10A1252
Thermal enhancement in laminar channel flow with a porous block, Int J Heat Mass Transfer 39(10) 2165-2175 (Jul 1996), 10A1272
Investigation of the working cycle of a metal hydride heat transformer for upgrading waste heat, Proc Inst Mech Eng A 210(A2) 157-163 (1996), 10A1317
Self-oscillation enhancement of impingement jet heat transfer, J Thermophys Heat Transfer 10(2) 380-382 (Jun 1996), 10T1318
Experimental and theoretical studies of mist jet impingement cooling, J Heat Transfer 118(2) 343-349 (May 1996), 11A1099
Local, instantaneous heat transfer coefficients for jet impingement on a phase change surface, J Heat Transfer 118(2) 334-342 (May 1996), 11A1101
Artificial roughness effects on turbulent transfer coefficients in the entrance region of a circular tube, Int J Heat Mass Transfer 39(12) 2515-2523 (Aug 1996), 11A1105
Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, J Heat Transfer 118(2) 294-300 (May 1996), 11A1109
Local heat transfer coefficient distribution on a ribbed surface, J Enhanced Heat Transfer 3(3) 187-200 (1996), 11A1114
Enhanced heat transfer in round tubes with porous inserts, Int J Heat Fluid Flow 17(2) 124-129 (Apr 1996), 11A1152
EHD augmentation of nucleate boiling at a Gewa-T surface, J Enhanced Heat Transfer 3(3) 211-219 (1996), 11A1162
Enhancement of convectional heat transfer due to bubbles rising, J Enhanced Heat Transfer 3(3) 177-185 (1996), 11A1220
Heat transfer enhancement in electronic modules using ribs and "film-cooling-like" techniques, Int J Heat Fluid Flow 17(2) 148-154 (Apr 1996), 11A1221
High flux evaporative mini-channel heat sink with axial capillary grooves, J Enhanced Heat Transfer 3(3) 221-232 (1996), 11A1222
Nozzle-geometry effects in liquid jet impingement heat transfer, Int J Heat Mass Transfer 39(14) 2915-2923 (Sep 1996), 12A1262

410F. Heat pipes

Behavior of a meniscus subjected to transient accelerations for increasing capillary numbers, J Thermophys Heat Transfer 9(3) 543-549 (Sep 1995), 1A1283
Modeling of waste heat recovery by looped water-in-steel heat pipes, Int J Heat Fluid Flow 16(4) 263-271 (Aug 1995), 1A1284
Performance characteristics of recently developed high-performance heat pipes, Heat Transfer Eng 16(1) 44-52 (Mar 1995), 1A1285
Visual study on flow behavior in an inclined two-phase closed thermosyphon, Heat Transfer Eng 16(1) 53-59 (Mar 1995), 1A1286
Thermal analysis of a piston cooling system with reciprocating heat pipes, Heat Transfer Eng 16(2) 50-57 (Jun 1995), 2A1141
Rayleigh-Benard convection in a tube bank: Experimental verification of a simple model (German), Arch Appl Mech 65(8) 522-528 (Oct 1995), 3T1052
Heat pipe-based cooling systems for photovoltaic cells under concentrated solar radiation, Appl Thermal Eng 16(1) 81-87 (Jan 1996), 3A1153
Heat transfer during evaporation on capillary-grooved structures of heat pipes, J Heat Transfer 117(3) 740-747 (Aug 1995), 3A1154
Investigation of a heat pipe array for convective cooling, J Electron Packaging 117(3) 208-214 (Sep 1995), 3A1155
Transient analysis of the start-up of a water heat pipe from a frozen state, Numer Heat Transfer A 28(4) 461-486 (Oct 1995), 3A1156
Steady solution selection and existence in geothermal heat pipes - I: The convective case, Int J Heat Mass Transfer 39(2) 259-274 (Jan 1996), 4A1224
Experimental study of boiling on a wicked surface, Int J Heat Mass Transfer 39(4) 771-777 (Mar 1996), 5A1178
Evaporative heat transfer at the evaporative section of a grooved heat pipe, J Thermophys Heat Transfer 10(1) 83-89 (Mar 1996), 6A1149
Longitudinal vibration effects on a copper-water heat pipe's capillary limit, J Thermophys Heat Transfer 10(1) 90-96 (Mar 1996), 6A1150
Moving gas front effects on heat pipe transient behavior, J Thermophys Heat Transfer 10(1) 76-82 (Mar 1996), 6A1151
Optimization analysis of a disk-shaped heat pipe, J Thermophys Heat Transfer 10(1) 179-182 (Mar 1996), 6T1152
Heat-transport characteristics of capillary looped pipes, Heat Transfer Japan Res 23(8) 727-738 (1994), 7A1267
Pressure and velocity fields in the wick structure of a localized heated flat plate heat pipe, Int J Heat Mass Transfer 39(6) 1325-1330 (Apr 1996), 7T1268
Enhanced flat miniature axially grooved heat pipe, J Heat Transfer 118(1) 261-264 (Feb 1996), 8T1201
Estimation of the maximum heat flux in the inverted meniscus type evaporator of a flat miniature heat pipe, Int J Heat Mass Transfer 39(9) 1899-1909 (Jun 1996), 8A1202
Heat Pipe Technology - Proc of 7th Int Heat Pipe Conf, Minsk (Begell House, New York, 1995) 9N27
Effects of liquid-vapor coupling and non-Darcian transport on asymmetrical disk-shaped heat pipes, Int J Heat Mass Transfer 39(10) 2095-2113 (Jul 1996), 10A1319
Large-size flat heat pipes, Heat Transfer Res 25(8) 938-944 (1993), 10A1320
Performance characteristics of a stainless steel-ammonia loop heat pipe, J Thermophys Heat Transfer 10(2) 326-333 (Jun 1996), 10A1321
Transient regimes in heat pipes with melting sublimation, Heat Transfer Res 25(8) 962-965 (1993), 10A1322
Steady-state model for heat pipes of circular or rectangular cross-sections, Appl Thermal Eng 16(8-9) 753-767 (Sep 1996), 12A1263

410G. Drying and freezing

Two-dimensional orthotropic model for simulating wood drying processes, Appl Math Model 20(1) 60-81 (Jan 1996), 5A1179
Control volume FEM of mechano-sorptive creep in timber, Numer Heat Transfer A 29(2) 147-164 (Feb 1996), 7A1269
Model of maximum liquid rate of fluidized spray granulator (Chinese), J Dalian Univ Tech 35(2) 155-159 (Apr 1995), 8A935
Influences of external drying condition on drying process of porous medium (Chinese), J Dalian Univ Tech 35(4) 516-519 (Aug 1995), 8A1203
Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, Russian Aeronaut 38(2) 64-70 (1995), 8A1204
Jet impingement drying of a moist porous solid, Int J Heat Mass Transfer 39(9) 1911-1923 (Jun 1996), 8A1205
Numerical analysis of heat and mass transfer in drying and pyrolysis of porous media, Numer Heat Transfer A 29(4) 331-355 (Mar 1996), 8A1206
Comparative performance of coriander dryer coupled to solar air heater and solar air-heater-cum-rockbed storage, Appl Thermal Eng 16(6) 475-486 (Jun 1996), 10A1323
Influence of sorption isotherms on the drying of porous materials, Int J Heat Mass Transfer 39(11) 2319-2327 (Jul 1996), 11A1223
Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, Int J Heat Mass Transfer 39(13) 2641-2651 (Sep 1996), 11A1295
Pressure and velocity of air during drying and storage of cereal grains, Transport Porous Media 23(2) 197-218 (May 1996), 11A1323
Modeling study for moisture diffusivities and moisture transfer coefficients in drying of solid objects, Int J Energy Res 20(6) 531-539 (Jun 1996), 12A1264
Relative permeability relations: A key factor for a drying model, Transport Porous Media 23(3) 303-335 (Jun 1996), 12A1347

410H. Insulation

Entropy Generation Minimization: Method of Thermodynamic Optimization of Finite-Size Systems and Finite-Time Processes (CRC Press, Boca Raton FL, 1995) 7R26
Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, Russian Aeronaut 38(2) 64-70 (1995), 8A1204
Effect of initial moisture distribution on the transient heat flow through wet porous insulations, J Thermal Insulation Build Envelopes 19 348-366 (Apr 1996), 11A1224
Hygrothermal performance of protected membrane roof systems - Part 2: Experimental verification, J Thermal Insulation Build Envelopes 19 314-335 (Apr 1996), 11A1225

410I. Environmental conditioning and control

Computer-aided molecular design of fluids that optimize absorption cycle COP, J Energy Resources Tech 117(2) 156-160 (Jun 1995), 1A1287
Analytical superposition approach to wall heat conduction under arbitary temperature perturbations for air-conditioning applications, Heat Recovery Syst CHP 15(8) 733-747 (Nov 1995), 2A1123
Experimental performance of the water-lithium chloride system in a heat transformer, Int J Energy Res 19(7) 593-602 (Sep 1995), 2A1142
Jet-pump cycle: A low cost refrigerator option powered by waste heat, Heat Recovery Syst CHP 15(8) 711-721 (Nov 1995), 2A1143
Optimal analysis of primary performance parameters for an endoreversible absorption heat pump, Heat Recovery Syst CHP 15(8) 723-731 (Nov 1995), 2A1144
Performance of partitioned-bed sorption heat pump systems, J Enhanced Heat Transfer 2(4) 283-293 (1995), 2A1145
Performance of residential refrigerators with ternary blends, Int J Energy Res 19(7) 631-637 (Sep 1995), 2A1146
Alternative desiccant cooling cycle, J Solar Energy Eng 117(3) 251-255 (Aug 1995), 3A1157
Building energy use prediction and system identification using recurrent neural networks, J Solar Energy Eng 117(3) 161-166 (Aug 1995), 3A1158
Calorimeter measurements of a heat pump dehumidifier: Influence of evaporator air flow, Int J Energy Res 19(8) 649-658 (Nov 1995), 3A1159
Effect of operating conditions on the performance two-bed closed-cycle solid-sorption heat pump systems, J Solar Energy Eng 117(3) 181-186 (Aug 1995), 3A1160
Energy impact of air leakage through insulated walls, J Solar Energy Eng 117(3) 167-172 (Aug 1995), 3A1161
Cold generation systems: A theoretical approach, Proc Inst Mech Eng A 209(A4) 287-296 (1995), 4A1225
Predicting single sided natural ventilation rates in buildings, Solar Energy 55(5) 327-341 (Nov 1995), 4A1226
Improved model for predicting the dynamic behavior of adsorption systems, Appl Thermal Eng 16(2) 149-161 (Feb 1996), 5A1180
Optimal tracking control of multi-zone indoor environment spaces, J Dyn Syst Meas Control 117(3) 292-303 (Sep 1995), 5A1181
Performance limits of absorption cycles with external heat-transfer irreversibilities, Appl Thermal Eng 16(2) 175-181 (Feb 1996), 5A1182
Variable-speed capacity control in refrigeration systems, Appl Thermal Eng 16(2) 103-113 (Feb 1996), 5A1183
From pure fluids to zeotropic and azeotropic mixtures: The effects of refrigerant-oil solubility on system performance, Int J Energy Res 20(1) 57-67 (Jan 1996), 6A1153
Performance of high-temperature absorption heat transformers using Alkitrate as the working pair, Appl Thermal Eng 16(3) 255-262 (Mar 1996), 6A1154
Performance optimization of two-bed closed-cycle solid-sorption heat pump systems, Heat and Mass Transfer Warme 31(1-2) 1-9 (Dec 1995), 6A1155
Absorption heat pump with the TFE-TEGDME and TFE-H_2O-TEGDME systems, Appl Thermal Eng 16(4) 335-345 (Apr 1996), 7A1270
Computational fluid dynamics applied to ejector heat pumps, Appl Thermal Eng 16(4) 291-297 (Apr 1996), 7A1271
Distributed study of air temperature inside a dry-expansion evaporator, Appl Thermal Eng 16(4) 305-311 (Apr 1996), 7A1272
Effect of ambient temperature on the surface area of components of an air-cooled lithium bromide-water absorption unit, Appl Thermal Eng 16(4) 313-319 (Apr 1996), 7A1273
General performance characteristics of a finite-speed Carnot refrigerator, Appl Thermal Eng 16(4) 299-303 (Apr 1996), 7A1274
Solar and gas-driven absorption heat-pump systems, Appl Thermal Eng 16(4) 347-356 (Apr 1996), 7A1275
Effects of a nonabsorbable gas on interfacial heat and mass transfer for the entrance region of a falling film absorber, J Solar Energy Eng 118(1) 45-49 (Feb 1996), 7A1395
Climate effect on the evaluation of the heat transfer through the perimetral structures of refrigerating stores, Solar Energy 56(2) 133-142 (Feb 1996), 8A1207
Desiccant aging and its effects on desiccant cooling system performance, Appl Thermal Eng 16(5) 447-459 (May 1996), 8A1208
Design and testing of a solid-sorption heat-pump system, Appl Thermal Eng 16(5) 389-394 (May 1996), 8A1209
Experimental temperature fronts for adsorptive heat pump applications, Appl Thermal Eng 16(5) 395-404 (May 1996), 8A1210
Numerical analysis of adsceptive temperature wave regenerative heat pump, Appl Thermal Eng 16(5) 405-418 (May 1996), 8A1211
R407C as an alternative to R22 in refrigeration systems, Int J Energy Res 20(3) 245-254 (Mar 1996), 8A1212
HCFC22-based vapor absorption refrigeration system - Part I: Parametric studies, Int J Energy Res 20(4) 297-312 (Apr 1996), 10A1324
Performance of multi-bed sorption heat pump systems, Int J Energy Res 20(4) 339-350 (Apr 1996), 10A1325
Analysis of the heat transfer rate and efficiency of TE (thermoelectric) cooling systems, Int J Energy Res 20(5) 399-417 (May 1996), 11A1226
Comparison of heat recovery systems in public indoor swimming pools, Appl Thermal Eng 16(7) 561-570 (Jul 1996), 11A1227
Effects of air and moisture flow on the thermal performance of insulations in ventilated roofs and walls, J Thermal Insulation Build Envelopes 19 367-385 (Apr 1996), 11A1228
Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design, Int J Heat

Mass Transfer 39(11) 2195-2204 (Jul 1996), 11A1229
HCFC22-based vapor absorption refrigeration systems - Part II: Influence of component effectiveness, Int J Energy Res 20(5) 371-384 (May 1996), 11A1230
Investigation of effects of wave motion on the performance of a falling film absorber, Int J Heat Mass Transfer 39(12) 2463-2472 (Aug 1996), 11A1231
Microcomputer-based control system for efficient energy utilization and water consumption in greenhouses, Arab J Sci Eng 20(4B) 825-834 (Oct 1995), 11A1232
New HVAC system based on cogeneration by an ic engine, Appl Thermal Eng 16(7) 551-559 (Jul 1996), 11A1233
Performance evaluation of a generator-absorber heat-exchange heat pump, Appl Thermal Eng 16(7) 591-604 (Jul 1996), 11A1234
Sizing procedure for photovoltaic refrigerating systems using a simple approach of the LLP calculation, Solar Energy 56(4) 337-342 (Apr 1996), 11A1235
Thermal performance of residential electric water heaters subjected to various off-peak schedules, J Solar Energy Eng 118(2) 73-80 (May 1996), 11A1236
Adiabatic losses in Stirling refrigerators, J Energy Resources Tech 118(2) 120-127 (Jun 1996), 12A1265
Finite-difference prediction of transient indoor temperature and related correlation based on the building time constant, Int J Energy Res 20(6) 507-520 (Jun 1996), 12A1266
HCFC22-based absorption cooling systems - Part III: Effects of different absorber and condenser temperatures, Int J Energy Res 20(6) 483-494 (Jun 1996), 12A1267
Numerical prediction of dynamic performance of vapor-compression heat pump using new HFC alternatives to HCFC-22, Appl Thermal Eng 16(8-9) 691-705 (Sep 1996), 12A1268
Thermal performance of an evaporatively cooled building: Parametric studies, Int J Energy Res 20(6) 465-481 (Jun 1996), 12A1269

410J. Cooling towers

Effect of the shape of the tower supports and walls on the performance of a dry-cooling tower subjected to cross winds, Heat Transfer Eng 16(2) 42-49 (Jun 1995), 2A1147
Modeling of cooling tower splash pack, Int J Heat Mass Transfer 39(1) 109-123 (Jan 1996), 3A1162
Application of adsorption technique in the estimation of drift losses through the cooling towers, Indian J Eng Mat Sci 3(3) 101-104 (Jun 1996), 11A1237

410K. Boilers

Evaluation of a 3D model for the prediction of heat transfer in power station boilers, Int J Energy Res 19(7) 579-592 (Sep 1995), 2A1148
Efficiency of vapor-pump-equipped condensing boilers, Appl Thermal Eng 16(3) 233-244 (Mar 1996), 6A1156
Advanced technology development and critical processes and research topic for bubbling FBC boiler design, Thermophys and Aeromech 2(3) 251-266 (1995), 12T1270

410L. Thermal energy storage systems

Characteristics of a plate-fin heat exchanger with phase change materials, J Enhanced Heat Transfer 2(4) 273-281 (1995), 2A1139
Integrated thermochemical heat-pump-energy-store, Int J Energy Res 19(7) 603-613 (Sep 1995), 2A1149
Analysis of thermal energy storage system with conjugate turbulent forced convection, J Thermophys Heat Transfer 9(4) 722-726 (Dec 1995), 3A1024
New solar receiver thermal store for space-based activities using multiple composite phase-change materials, J Solar Energy Eng 117(3) 215-220 (Aug 1995), 3A1163
Optimal sizing of a heat pump-thermal storage system based on the linear programming method, Int J Energy Res 19(8) 665-674 (Nov 1995), 3A1164
Thermoeconomics of a sensible heat, thermal energy storage system, J Solar Energy Eng 117(3) 255-259 (Aug 1995), 3A1165
Solid-liquid phase-change heat transfer around two horizontal, vertically spaced cylinders: An experimental study on the effect of density inversion of water, Heat Transfer Japan Res 23(7) 645-657 (1994), 4A1209
Enhancement of energy charge-discharge rates in composite slabs of different phase change materials, Int J Heat Mass Transfer 39(4) 725-733 (Mar 1996), 5A1169
Semi-analytical solution of thermal energy storage system with conjugate laminar forced convection, Int J Heat Mass Transfer 39(4) 717-724 (Mar 1996), 5A1184
Thermal analysis of a helical heat exchanger for ground thermal energy storage in arid zones, Int J Heat Mass Transfer 39(5) 1051-1065 (Mar 1996), 6A1147
Dynamic model of the solar-powered solid absorption refrigeration system, Chinese J Aeronaut 8(3) 174-178 (Aug 1995), 7T1276
Appraisal of 1D analytical models for the packed bed thermal storage systems utilizing sensible heat storage materials, J Energy Resources Tech 118(1) 44-49 (Mar 1996), 8A1213
Cold heat-release characteristics of phase-change emulsion by air-emulsion direct-contact heat exchange method, Int J Heat Mass Transfer 39(9) 1797-1803 (Jun 1996), 8A1214
Heat transfer enhancement in latent heat thermal energy storage system by using an external radial finned tube, J Enhanced Heat Transfer 3(2) 119-127 (1996), 8A1215
Heat transfer in a high-temperature packed bed thermal energy storage system: Roles of radiation and intraparticle conduction, J Energy Resources Tech 118(1) 50-57 (Mar 1996), 8A1216
Thermal energy storage using a phase-change material, Solar Energy 56(2) 183-189 (Feb 1996), 8A1217
Transient exergy analysis and optimal removal time of a cylindrical storage system, J Propulsion Power 12(2) 420-423 (Apr 1996), 8A1218
Analytical solutions to a 1D finite-domain model for stratified thermal storage tanks, Solar Energy 56(4) 315-322 (Apr 1996), 11A1238
Exergy analysis of thermal energy storage with specific remarks on the variation of the environmental temperature, J Solar Energy Eng 118(2) 81-88 (May 1996), 11A1239
Mathematical modeling of the thermal performance of a phase-change material store: Cooling cycle, Appl Thermal Eng 16(7) 613-623 (Jul 1996), 11A1240
Thermodynamic design of a phase change thermal storage module, J Solar Energy Eng 118(2) 89-96 (May 1996), 11A1241
Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, J Energy Resources Tech 118(2) 102-111 (Jun 1996), 12A1271

410N. Electronic equipment

Numerical investigation of conjugate heat transfer from a flush heat source on a conductive board in laminar channel flow, Int J Heat Mass Transfer 38(16) 2969-2984 (Nov 1995), 1A1181
Prediction of turbulent heat transfer in the entrance of an array of heated blocks using low-Reynolds-number κ-ε model, Numer Heat Transfer A 28(3) 263-277 (Sep 1995), 1A1183
Design and Analysis of Heat Sinks (Wiley, New York, 1995) 3R29
Environmental scanning electron microscopic investigation of failure mechanisms in electronic packages, J Electron Packaging 117(3) 225-229 (Sep 1995), 3A672
Numerical studies of non-Newtonian channel flow and heat transfer enhancement for electronics modules, J Electron Packaging 117(3) 246-249 (Sep 1995), 3T1062
Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, J Thermal Anal 45(3) 417-436 (Sep 1995), 3A1100
Non-Fourier heat conduction in IC chip, J Electron Packaging 117(3) 174-177 (Sep 1995), 3A1109
Investigation of a heat pipe array for convective cooling, J Electron Packaging 117(3) 208-214 (Sep 1995), 3A1155
Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, J Heat Transfer 117(3) 574-581 (Aug 1995), 3A1166
Thermal deformation analysis of various electronic packaging products by moire and microscopic moire interferometry, J Electron Packaging 117(3) 185-191 (Sep 1995), 3A1188
Jet-flow scavenging of a curing oven - Part II: Numerical simulation, J Electron Packaging 117(3) 220-224 (Sep 1995), 3A1192
Optimal spacing of cylinders in free-stream cross-flow forced convection, Int J Heat Mass Transfer 39(2) 311-317 (Jan 1996), 4A1143
Conjugate natural convection from an array of protruding heat sources, Numer Heat Transfer A 29(1) 1-18 (Jan 1996), 6A1081
Conjugate natural convection from an array of discrete heat sources - Part 1: 2D and 3D model validation, Int J Heat Fluid Flow 16(6) 501-510 (Dec 1995), 6A1082
Conjugate natural convection from an array of discrete heat sources - Part 2: A numerical parametric study, Int J Heat Fluid Flow 16(6) 511-518 (Dec 1995), 6A1083
Conjugate mixed convection in a channel: Modified five percent deviation rule, Int J Heat Mass Transfer 39(6) 1223-1234 (Apr 1996), 7A1218
Flow boiling of binary mixtures in microchanneled plates, Int J Heat Mass Transfer 39(6) 1257-1264 (Apr 1996), 7A1234
Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, Heat Transfer Japan Res 23(8) 675-692 (1994), 7A1277
Thermodynamic optimization of cooling techniques for electronic packages, Int J Heat Mass Transfer 39(6) 1213-1221 (Apr 1996), 7A1278
Comparison of the cooling performance of staggered and in-line arrays of electronic packages, J Electron Packaging 118(1) 27-30 (Mar 1996), 8A1219
Cooling of a 2D space with one or more streams making one or more passes, Int J Heat Fluid Flow 17(1) 78-88 (Feb 1996), 8A1220
Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, J Electron Packaging 118(1) 31-36 (Mar 1996), 8A1221
Single-phase and boiling cooling of small pin fin arrays by multiple nozzle jet impingement, J Electron Packaging 118(1) 21-26 (Mar 1996), 8A1222
Annual Review of Heat Transfer, Volume VI (Begell House, New York, 1995) 9N26
Conjugate heat transfer from a single surface-mounted block to forced convective air flow in a channel, J Heat Transfer 118(2) 301-309 (May 1996), 11A1107
Thermal conduction in nonhomogeneous CVD diamond layers in electronic microstructures, J Heat Transfer 118(2) 279-286 (May 1996), 11A1195
Heat transfer enhancement in electronic modules using ribs and "film-cooling-like" techniques, Int J Heat Fluid Flow 17(2) 148-154 (Apr 1996), 11A1221
High-power electronics heat rejection from aircraft skin, J Enhanced Heat Transfer 3(3) 165-176 (1996), 11A1242

412. THERMOMECHANICS OF SOLIDS

412A. General theory

Regularization and symmetry breaking for the thermistor problem with the Thomson effect, Meccanica 30(4) 389-396 (Aug 1995), 2A1150
Results on thermoelasticity for dielectric materials with voids, Z Angew Math Mech 75(9) 707-714 (1995), 2A1151
Stochastic contact model of rough frictional heating surfaces in mixed friction conditions, Wear 188(1-2) 49-55 (Sep 1995), 3A821
Design sensitivity analysis in dynamic thermoviscoelasticity with implicit integration, Int J Solids Struct 33(4) 577-594 (Feb 1996), 4A443
Qualitative results for the linear theory of thermomicrostretch elastic solids, Int J Eng Sci 33(14) 2115-2125 (Nov 1995), 4A1227
Effect of temperature changes on damping properties of sandwich cylindrical panels, Int J Solids Struct 33(6) 835-849 (Mar 1996), 5A110
Coupled thermomechanical model for the solidification of cast metals, Int J Solids Struct 33(5) 647-673 (Feb 1996), 5A1185
Mathematical modeling of brush seals, Int J Heat Fluid Flow 16(6) 493-500 (Dec 1995), 6A1157
Multi-component model for hydration heat of Portland cement (Japanese), Proc JSCE 526(II) 97-109 (Nov 1995), 6A1158
Thermodynamic derivation of the heat conduction equation and the dynamic boundary value problem for thermoelastic materials and fluids, Acta Mech 114(1-4) 27-37 (1996), 8A1158
Thermal stresses due to a laser pulse: Elastic solution, J Appl Mech 63(1) 38-46 (Mar 1996), 9A1272
Plane harmonic waves for three thermoelastic theories, Math Mech Solids 1(1) 111-127 (Mar 1996), 9A1277
Comparison of mathematical models for electric discharge machining, J Mat Processing Manuf Sci 4(2) 163-176 (Oct 1995), 10A1326
Uniqueness theorem in the theory of thermoelasticity without energy dissipation, J Thermal Stresses 19(3) 267-272 (May 1996), 10A1327
Entropy elasticity of isotropic rubber-like solids at finite strains, Comput Methods Appl Mech Eng 132(1-2) 17-44 (May 1996), 12A1272
Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, J Electron Packaging 118(2) 87-93 (Jun 1996), 12A1273

412B. Thermoelasticity (steady and quasi-steady)

Spatial decay estimates for solutions describing harmonic vibrations in a thermoelastic cylinder, J Thermal Stresses 18(4) 421-436 (Aug 1995), 1A157
Axially symmetric thermal stress of an external circular crack under general thermal conditions, Arch Appl Mech 65(6) 374-389 (Jul 1995), 1A1288
Influence of the thermal assembly on the rotational behavior of a elastic-plastic shrink fit, Z Angew Math Mech 75(8) 641-644 (1995), 1T1289
Solutions of thermoelastic crack problems in bonded dissimilar media or half-plane medium, Int J Solids Struct 32(24) 3537-3554 (Dec 1995), 2A657
Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), Proc JSCE 590(V-28) 235-247 (Aug 1995), 2A775
Thermoelastic material-momentum equation, J Elast 39(3) 201-212 (Jun 1995), 2A1152
Thermostressed state of laminar shells of revolution with regard for creep deformation in the layers of orthotropic-materials under simple process of loading (Russian), Prikl Mekh (Appl Mech) 30(9) 46-49 (1994), 3A541
Thermoelastic effect of a cylindrical shell with a solid body (Russian), Prikl Mekh (Appl Mech) 30(9) 58-62 (1994), 3A542
Thermomechanical response analysis of lithographic mask structure using FEM, JSME Int J Ser A 38(4) 563-571 (Oct 1995), 3A644
Temperature stresses near cracks in elastic plate weakened with two holes (Russian), Prikl Mekh (Appl Mech) 30(9) 68-74 (1994), 3A684
Saint-Venant's principle in linear thermoelasticity, J Thermal Stresses 18(5) 485-496 (Oct 1995), 3A1167
Thermal stresses in microstretch elastic cylinders, J Thermal Stresses 18(5) 537-550 (Oct 1995), 3A1168
Thermoelastic load trasfer between twisted cord and matrix in composites, J Thermal Stresses 18(5) 551-571 (Oct 1995), 3A1169
Two-dimensional thermal stress analysis of surface mount joints under uniform temperature change, JSME Int J Ser A 38(4) 425-432 (Oct 1995), 3A1170
Model of the deformation of a non-uniformly heated three-layer rod with delaminations, J Appl Math Mech 59(3) 449-457 (1995), 4A1228
Effect of thermoelastic material behavior on the dynamics of a hemispherical resonator gyro, Mech Solids 30(2) 15-22 (1995), 5A84
Anisotropic plate under influence of distributed and point heat sources, Mech Solids 30(2) 118-123 (1995), 5A1186
Thermal stresses in a multilayered anisotropic medium with interface thermal resistance, J Appl Mech 62(3) 810-811 (Sep 1995), 5T1187
Slip-diffusion zone effects at rapidly-loaded cracks in thermoelastic solids, J Elast 40(3) 183-206 (Sep 1995), 6A683
Prediction of railway disc brake temperatures taking the bearing surface variations into account, Proc Inst Mech Eng F 209(F2) 67-76 (1995), 6A1115
Devices for the experimental determination of individual stresses from thermoelastic data, J Strain Anal Eng Des 31(1) 53-63 (Jan 1996), 6A1159
Thermoelastic theory for the response of materials functionally graded in two directions, Int J Solids Struct 33(7) 931-966 (Mar 1996), 6A1160
Approximate solution of the thermoelastic contact problem with frictional heating in the general case of the profile shape, J Mech Phys Solids 44(2) 243-250 (Feb 1996), 7A503
Interaction of a rigid cylinder with elastic half-space under heat formation on the contact area, Prikl Mekh (Appl Mech) 30(11) 26-31 (1994), 7T507
Thermoelastoplastic state of discretely nonhomogeneous bodies of revolution with regard for nonlinearity of the shift characteristic of orthotropic of material (Russian), Prikl Mekh (Appl Mech) 31(6) 34-41 (1995), 7A513
Calculation of axisymmetrical thermoviscoelastoplastic state of the branched laminar shells allowing for the deformation of cross shear and rotation (Russian), Prikl Mekh (Appl Mech) 31(4) 33-40 (1995), 7T615
Thermoviscoelastoplastic axisymmetrical stress-strained state of laminar shells of isotropic and orthotropic materials, Prikl Mekh (Appl Mech) 30(12) 55-61 (1994), 7A630
Stressed state of transversally-isotropic body with elliptical crack under uniform heat flow on its surface (Russian), Prikl Mekh (Appl Mech) 31(3) 24-32 (1995), 7A818
Generalized 2D thermoelastic problems in spherical regions under axisymmetric distributions, J Thermal Stresses 19(1) 55-76 (Feb 1996), 7A1279
Nonstationary temperature field and thermoelastic state of bilayered hollow round cylinder under friction heating, Prikl Mekh (Appl Mech) 31(1) 44-50 (1995), 7A1280

Optimal control of 2D nonaxisymmetrical temperature field in a cylinder under restrictions for thermoelastic stresses (Russian), Prikl Mekh (Appl Mech) 31(6) 42-49 (1995), 7A1281
Plane problem of orthotropic quasistatic thermoelasticity, J Elast 41(3) 161-175 (Dec 1995), 7A1282
Stressed state of a plate heated by heat source (Russian), Prikl Mekh (Appl Mech) 31(5) 62-67 (1995), 7A1283
Thermal stress and strength reliability of heater for cathode ray tube (Japanese), J Soc Mat Sci Japan 45(1) 118-124 (Jan 1996), 7A1284
Thermal stress state of laminated bodies of revolution of isotropic and rectilinear orthotropic materials (Russian), Prikl Mekh (Appl Mech) 31(4) 3-9 (1995), 7A1285
Thermal stresses and effective thermal expansion coefficient of a functionally gradient sphere, J Thermal Stresses 19(1) 39-54 (Feb 1996), 7A1286
Thermal stresses in the infinite transversally-isotropic medium with inner elliptical crack, Prikl Mekh (Appl Mech) 30(11) 10-17 (1994), 7A1287
Residual stresses in welding: Basic aspects (Spanish), J Brazilian Soc Mech Sci 17(4) 394-403 (1995), 8A846
Finite element analysis of the stability of static thermoelastic contact, J Thermal Stresses 19(2) 169-184 (Mar 1996), 8A1159
Inverse thermoelastic problem in an isotropic plate associated with a piezoelectric ceramic plate, J Thermal Stresses 19(2) 153-167 (Mar 1996), 8A1223
Nonlinear thermal buckling for composite laminate with elliptical delamination (Chinese), J Dalian Univ Tech 36(1) 20-25 (Jan 1996), 8A1224
Solution of the thermoelastic problem for a cylinder in the case of a 2D nonaxisymmetric temperature field, Z Angew Math Mech 76(1) 35-43 (1996), 8A1225
Thermal stresses in a fluid-saturated poroelastic hollow sphere, J Thermal Stresses 19(2) 139-151 (Mar 1996), 8A1226
Three-dimensional thermoelastic contact between two plates with bolted joints, J Thermal Stresses 19(2) 123-138 (Mar 1996), 8A1227
Use of thermoelasticity to evalute stress redistribution and notch sensitivity in ceramic matrix composites, Exp Tech 20(2) 15-20 (Apr 1996), 9A564
Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayerd cylindrical shells, AIAA J 34(4) 802-812 (Apr 1996), 9A647
Numerical thermo-elastic analysis of singularities in 2D, Int J Fracture 74(4) 341-361 (1995), 9A1273
Thermoelastic deformation of transversally-isotropic one-cavity hyperboloid of revolution, Prikl Mekh (Appl Mech) 31(8) 23-29 (1995), 9A1274
Adaptive FE technique for thermal stress analysis of built-up structures, JSME Int J Ser A 39(2) 223-230 (Apr 1996), 10A8
Welding residual distortions in ring-stiffened pipes, J Offshore Mech Arctic Eng 118(2) 121-126 (May 1996), 11A841
Energy balance of thermoelastic martensite transformation under stress, Nucl Eng Des 162(1) 1-12 (Mar 1996), 11A1243
Modeling of thermal stresses and thermal cracking during heating of large ingots, J Manuf Sci Eng 118(2) 235-243 (May 1996), 11A1244
Thermoelastic excitation of multi-directional fibrous composite cylinders, J Sound Vib 192(4) 807-820 (May 1996), 11A1245
Conservation laws for thermo or poroelasticity, J Appl Mech 63(2) 331-336 (Jun 1996), 12A500
Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part I: Behavior, Int J Plasticity 12(3) 295-309 (1996), 12A516
Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part II: Modeling, Int J Plasticity 12(3) 311-341 (1996), 12A517
Investigation of friction-induced thermal processes for some non-Hertzian fast-moving plane contacts, Int J Mech Sci 38(10) 1103-1116 (Oct 1996), 12A892
Thermomechanical generalization of partial contact in pin joints, Int J Mech Sci 38(10) 1059-1072 (Oct 1996), 12A993
Fast-moving heated half-cylinder over the surface of a half-space, Int J Eng Sci 34(8) 951-961 (Jun 1996), 12A1274
Steady-state thermomechanical analysis of continuously quenched materials, J Thermal Stresses 19(4) 395-416 (Jun 1996), 12A1275
Thermal buckling of circular plates with localized axisymmetric damages, Comput Struct 60(6) 1105-1109 (Jul 1996), 12A1276
Thermal stresses in a cylinder with longitudinal circular cylindrical cutouts, J Thermal Stresses 19(4) 341-357 (Jun 1996), 12A1277

412C. Thermoelasticity (transient)

Thermal stress-focusing effect in a solid sphere subjected to instantaneous heating, J Thermal Stresses 18(4) 437-448 (Aug 1995), 1A1290
New model for an aging thermoviscoelastic material, Mech Res Commun 22(5) 441-446 (Oct 1995), 2T6
Energy estimates and energy control of numerical stability in coupled dynamic thermoelasticity, Mech Res Commun 22(5) 467-472 (Oct 1995), 2T1153
Note on the equations of a thermoelastic plate, Appl Math letters 8(3) 1-6 (May 1995), 2A1154
Consolidation around a volumic spherical decaying heat source, J Thermal Stresses 18(5) 513-536 (Oct 1995), 3A1171
Thermally induced vibration of a symmetric cross-ply plate with hygrothermal effects, AIAA J 33(10) 1986-1988 (Oct 1995), 3T1172
Three-dimensional transient thermal stress analysis of a nonhomogeneous hollow circular cylinder due to a moving heat source in the axial direction, J Thermal Stresses 18(5) 497-512 (Oct 1995), 3A1173
Sommerfield's half-plane problem for equations of linear thermoelasticity, Math Methods Appl Sci 18(15) 1215-1237 (Dec 1995), 4A1229
Influence of cooling rate on interlaminar fracture properties of unidirectional commingled CF-PEEK composites, Appl Composite Mat 2(3) 135-151 (1995), 5A648
Aerothermodynamic measurement and prediction for modified orbiter at Mach 6 and 10, J Spacecraft Rockets 32(5) 737-748 (Oct 1995), 5A717
Wake flow about the Mars Pathfinder entry vehicle, J Spacecraft Rockets 32(5) 771-776 (Oct 1995), 5A721
Transient thermoelastic analysis of composite brake disks, J Reinforced Plastics Composites 14(12) 1337-1361 (Dec 1995), 5A1188
Frequency-load interaction of geometrically imperfect curved panels subjected to heating, AIAA J 34(1) 166-177 (Jan 1996), 6A134
Axisymmetric analysis of transient thermoelastic behaviors in composite brake disks, J Thermophys Heat Transfer 10(1) 69-75 (Mar 1996), 6A1161
Transient response of inhomogeneous transversely isotropic thermoelastic cylinder to a dynamic input, Appl Math Comput 74(1) 1-13 (Jan 1996), 6A1162
Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, JSME Int J Ser A 39(1) 26-33 (Jan 1996), 7A812
Behavior of a tapered hub flange with a bolted flat cover in transient temperature field, J Pressure Vessel Tech 118(1) 115-120 (Feb 1996), 7A1025
Transient heat conduction and thermal stress problems of a nonhomogeneous plate with temperature-dependent material properties, J Thermal Stresses 19(1) 77-102 (Feb 1996), 7A1243
Results on thermoelasticity for porous piezoelectric materials, Mech Res Commun 23(1) 1-10 (Feb 1996), 7T1288
Thermoelasticity of multilayer highly anisotropic shells, J Thermal Stresses 19(1) 1-15 (Feb 1996), 7A1289
Three-dimensional FE thermoelastic analysis of the dynamics and strength of engineering structures, J Machinery Manuf Reliab 4 33-40 (1995), 7T1290
Elastoplastic stress and strain predictions for axisymmetric pressure-vessel bodies under transient thermal loads, J Strain Anal Eng Des 31(2) 81-89 (Mar 1996), 8A780
Deformation waves in thermoelastic media and the concept of internal variables, Arch Appl Mech 66(3) 200-207 (Jan 1996), 8A1228
Thermal analysis of continuous filament-wound composites, J Thermoplastic Composite Mat 9(1) 54-75 (Jan 1996), 8A1229
Constraint effects on behavior of surface cracks in cladded reactor pressure vessels subjected to PTS transients, Int J Pressure Vessels Piping 67(2) 185-197 (Jul 1996), 9A1275
Fundamental study on the thermal properties of concrete structural members under external high temperature loading (Japanese), Proc JSCE 532(V-30) 41-53 (Feb 1996), 9A1276
Plane harmonic waves for three thermoelastic theories, Math Mech Solids 1(1) 111-127 (Mar 1996), 9A1277
Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, J Spacecraft Rockets 33(2) 285-291 (Apr 1996), 10A196
Dynamic thermal stresses in a finite circular plate with a penny-shaped crack generated by impulsive heating, JSME Int J Ser A 39(2) 172-178 (Apr 1996), 10A1328
Modeling of thermal stresses during an electron-beam welding process, J Thermal Stresses 19(3) 211-236 (May 1996), 10A1329
Study of the thermoelastic interactions in an elastic half space subjected to a ramp-type heating: A state-space approach, Int J Eng Sci 34(5) 579-596 (Apr 1996), 10A1330
Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, JSME Int J Ser A 39(2) 216-222 (Apr 1996), 10A1331
Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), J Dalian Univ Tech 36(3) 297-300 (May 1996), 11A1246
Dynamical theory of thermoelastic dielectrics with polarization inertia, Mech Res Commun 23(3) 247-256 (Jun 1996), 11T1247
Three-dimensional coupled thermal stresses in infinite plate subjected to a moving heat source, J Strain Anal Eng Des 31(3) 243-247 (May 1996), 11A1248
Periodic thermal deformation of large seal ring, JSME Int J Ser C 39(2) 347-355 (Jun 1996), 12A965
Transient thermoelastic problem for an infinite plate containing a penny-shaped crack at an arbitrary position, J Thermal Stresses 19(4) 379-394 (Jun 1996), 12A1278

412D. Thermoelasticity (nonlinear)

Global in time existence of small solutions of nonlinear thermoviscoelastic equations, Math Methods Appl Sci 18(11) 871-895 (Sep 1995), 1A1291
Nonlinear thermoviscoelastic stress and fracture analysis of an adhesive bond, J Mech Phys Solids 43(10) 1505-1549 (Oct 1995), 2A623
Finite element viscoelastic analysis of temperature and moisture effects in electronic packaging, J Electron Packaging 117(3) 192-200 (Sep 1995), 3A516
Local in time solvability of the Neumann problem of quasilinear hyperbolic parabolic coupled systems, Math Methods Appl Sci 18(13) 1053-1082 (Oct 1995), 3A1174
Smoothing properties, decay, and global existence of solutions to nonlinear coupled systems of thermoelastic type, SIAM J Math Anal 26(6) 1547-1563 (Nov 1995), 3A1175
Coexistent phases in nonlinear thermoelasticity: Radially symmetric equilibrium states of anelotropic bodies, J Elast 41(2) 107-136 (Nov 1995), 6A1163
Deformation waves in thermoelastic media and the concept of internal variables, Arch Appl Mech 66(3) 200-207 (Jan 1996), 8A1228
Lagrenian method for thermal postbuckling analysis of laminated panels (Chinese), J Dalian Univ Tech 36(2) 145-151 (Mar 1996), 9A1278
Heat conditions in friction braking, Mech Solids 30(6) 65-72 (1995), 10A966

412E. Inelastic thermomechanics

Thermodynamic constraints for constitutive equations in thermoviscoelasticity: New relationships between cross effects, J Appl Math Mech 59(2) 263-271 (1995), 2A1155
Computer simulation on deformation of engineering materials at high temperatures - III: Application to structural analysis (Japanese), J Soc Mat Sci Japan 44(504) 1201-1206 (Sep 1995), 3T477
Effect of prior quasi-static loading on the initiation and growth of dynamic adiabatic shear bands, Arch Mech 47(3) 485-498 (1995), 3A1176
Boundary element method for thermoelastoplastic problems, Int J Numer Methods Eng 38(21) 3635-3652 (Nov 1995), 4A1230
Finite element procedure for solving contact thermoelastoplastic problems at large strains, normal, and high pressures, Comput Methods Appl Mech Eng 126(1-2) 39-66 (Sep 1995), 4A1231
Stability of a propagating interphase boundary in a thermoplastic material, J Thermal Stresses 18(6) 621-634 (Dec 1995), 5A1189
Theory of large-strain isotropic thermoplasticity based on metric transformation tensors, Arch Appl Mech 66(1-2) 45-64 (Dec 1995), 5A1190
Investigation of die-workpiece interface friction during the upsetting process, J Mat Processing Tech 54(1-4) 239-248 (Oct 1995), 6A551
Thermal analysis of the hot torsion test taking into account radiation, Mech Mat 22(1) 1-9 (Jan 1996), 7A34
Comparison of 1D and 3D simulations of the twisting of a thermoviscoplastic tube, Int J Plasticity 12(1) 29-33 (1996), 8A1230
Thermoelastoplastic analysis of a filamentary metal matrix composite, Appl Composite Mat 2(4) 199-216 (1995), 8A1231
Forming limit during superplastic deformation of sheet metals, Appl Math Mech 17(2) 133-138 (Feb 1996), 9A702
Estimation of creep buckling deformation under external pressure at elevated temperature, J Pressure Vessel Tech 118(2) 194-197 (May 1996), 10A638
Development of shear bands during the perforation of a steel plate, Comput Mech 17(5) 326-334 (Mar 1996), 10A1332
Simple endochronic transient creep model of metals with applications to variable temperature creep, Int J Plasticity 12(2) 239-253 (1996), 11A442
Thermomechanical behavior of casting sands: Experiments and elastoplastic modeling, Int J Plasticity 12(3) 273-294 (1996), 12A1279

412F. Thermomagnetic and thermoelectric effects

Current density and temperature distribution near the corner of angled metal line, Mech Res Commun 22(5) 473-483 (Oct 1995), 2T1121
Results on thermoelasticity for dielectric materials with voids, Z Angew Math Mech 75(9) 707-714 (1995), 2A1151
Dilatometric and pyroelectric study of phase transition in $(CH_3)_2NH_2Al(SO_4)_2$ times $6H_2O$ ferroelectric crystal, Acta Phys Polonica A 88(6) 1097-1101 (Dec 1995), 6A1164
Magnon drag effect on resistivity and thermoelectric power of semimetallic antiferromagnet USb, Acta Phys Polonica A 88(6) 1103-1112 (Dec 1995), 6T1165
Coupled layerwise analysis of thermopiezoelectric composite beams, AIAA J 34(6) 1231-1237 (Jun 1996), 11A482

412G. Thermal shock

Study on thermal shock phenomena due to laser irradiation using molecular dynamics, Int J Japan Soc Precision Eng 29(2) 148-149 (Jun 1995), 3T1177
Computation of Mode I and II thermal shock stress intensity factors using a boundary-only element method, Int J Numer Methods Eng 38(24) 4157-4169 (Dec 1995), 5A1191
Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, J Eng Gas Turbines Power 118(2) 246-250 (Apr 1996), 10A1400

412H. Thermal fatigue and stability

Thermal postbuckling analysis of moderately thick plates, Appl Math Mech 16(5) 475-484 (May 1995), 1A637
Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, J Thermal Stresses 18(4) 465-482 (Aug 1995), 1A661
Effect of stress state on the failure mechanism and fracture of austenitic steel under thermal cycling conditions, Fatigue Fracture Eng Mat Struct 18(6) 707-715 (Jun 1995), 1A754
Environmental scanning electron microscopic investigation of failure mechanisms in electronic packages, J Electron Packaging 117(3) 225-229 (Sep 1995), 3A672
Energy approach to the fatigue of 60/40 solder - Part I: Influence of temperature and cycle frequency, J Electron Packaging 117(2) 130-135 (Jun 1995), 3A1178
Thermo-elastic FE fatigue failure analysis, Eng Failure Anal 2(3) 197-207 (Sep 1995), 4A17
Thermal fatigue of steel tires on urban railway systems, Int J Fatigue 17(7) 471-475 (Oct 1995), 4A1232
Thermal fatigue failure and design modification of a steam exhaust silencer, Eng Failure Anal 2(4) 247-255 (Dec 1995), 6A1166
Development of simple thermal fatigue test method using low-thermal expansion restraining holders (Japanese), J Soc Mat Sci Japan 45(1) 125-130 (Jan 1996), 7A1291
Effects of thermomechanical treatments on low cycle fatigue properties of Ti-3Al-8V-6Cr-4Mo-4Zr alloy, J Mat Processing Manuf Sci 4(1) 45-54 (Jul 1995), 7A1292
Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), J Dalian Univ Tech 35(4) 511-515 (Aug 1995), 8A1232
Thermoforce interaction of deformable coatings with allowance for wear, J Machinery Manuf Reliab 5 59-64 (1995), 9A992
Random thermal fatigue in fast breeder reactor: A narrow-band spectrum, Nucl Eng Des 160(3) 333-345 (Feb 1996), 9A1279
Thermoelastic buckling of thin cylindrical shells based on improved stability equations, J Thermal Stresses 19(4) 299-315 (Jun 1996), 12A626
Effect of microstructure size on deformation kinetics and thermo-mechanical fatigue of 63Sn37Pb solder joints, J Electron Packaging 118(2) 49-54 (Jun 1996), 12A1280
Nonlinear problems of thermal postbuckling of a beam, J Thermal Stresses 19(4) 359-367 (Jun 1996), 12A1281
Thermal fatigue failure mechanism of 58Bi-42Sn solder joints, J Electron Packaging 118(2) 62-66 (Jun 1996), 12A1282

412I. Thermal wave propagation

Registration of delaminations of thin coatings of thick substrates with thermal waves, Bull Polish Acad Sci Tech Sci 43(2) 247-252 (1995), 1A1292
Discontinuities in generalized thermoelastic wave propagation in a semi-infinite piezoelectric rod, J Tech Phys 36(3) 269-278 (1995), 6A1167
Numerical modeling of thermal waves via internal state variable approach, Comp Assisted Mech Eng Sci 2(4) 307-319 (1995), 6A1168
Plane harmonic waves for three thermoelastic theories, Math Mech Solids 1(1) 111-127 (Mar 1996), 9A1277
Theory of shallow shoulder waves, IMA J Appl Math 56(1) 87-102 (1996), 10A1371
Numerical analysis of 3D thermoelastic stress wave propagation problem, Acta Mech Solida Sinica 9(2) 159-168 (1996), 12A1283
Thermoelastic surface waves of an assigned wavelength, J Thermal Stresses 19(4) 369-377 (Jun 1996), 12A1284

412J. Thermofracture mechanics

Rapid quasi-brittle tearing of a thermoelastic strip, Acta Mech 112(1-4) 95-106 (1995), 3A1179
Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), J Soc Mat Sci Japan 44(505) 1286-1290 (Oct 1995), 4A1233
Fracture in austenitic components, Int J Pressure Vessels Piping 65(3) 193-378 (1996), 4A1350
Axially symmetric thermal stress of a penny-shaped crack under general heat flux, J Thermal Stresses 18(6) 635-652 (Dec 1995), 5A1192
Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid, Int J Heat Mass Transfer 39(4) 677-690 (Mar 1996), 5A1193
Temperature-force dependence of the resistance to fracture of high-temperature materials with allowance for the kind of the stressed-strained state, J Machinery Manuf Reliab 3 43-50 (1995), 6T1169
Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, JSME Int J Ser A 39(1) 26-33 (Jan 1996), 7A812
Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, Theor Appl Fracture Mech 24(3) 203-215 (Mar 1996), 8A621
Twinning-induced stress concentrations in polycrystalline solids, Math Mech Solids 1(1) 95-110 (Mar 1996), 9A796
Influence of the temperature field on the propagation of cracks, Arch Mech 47(5) 957-970 (1995), 9A1280
Crack problems in FGM layers under thermal stresses, J Thermal Stresses 19(3) 237-265 (May 1996), 10A1333
Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, Int J Pressure Vessels Piping 68(1) 99-111 (1996), 10A1334
Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, Int J Pressure Vessels Piping 68(1) 113-120 (1996), 10A1335
Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), J Pressure Vessel Tech 118(2) 174-180 (May 1996), 10A1336
Modeling fracture driven by a thermal gradient, Model Simulation Mat Sci Eng 4(2) 193-202 (Mar 1996), 11A1249
Stress intensity relaxation at the tip of an edge crack in a functionally graded material subjected to a thermal shock, J Thermal Stresses 19(4) 317-339 (Jun 1996), 12A740
Harmonic thermal fracture of multiple crack system and the stability of cracks in RCC arch dam, Eng Fracture Mech 54(5) 653-665 (Jul 1996), 12A1285
Thermal fracture of functionally gradient ceramics, Z Angew Math Phys 47(3) 467-484 (May 1996), 12A1286

412K. Thermal stresses of solids with phase change

Microstructural effect on fracture toughness of N26MT2Nb steel in the two-phase state, J Theor Appl Mech 33(3) 519-537 (1995), 1A842
Recovery stress of TiNi shape memory alloy under constant strain, Arch Mech 47(2) 281-293 (1995), 1A1293
Interfacial thermal stresses in layered structures: The stepped edge problem, J Electron Packaging 117(2) 153-158 (Jun 1995), 3A1180
Misfit dislocations and anisotropic coarsening in superalloys, Arch Mech 47(3) 601-615 (1995), 3A1181
Optimization of quench history of aluminum parts for superior mechanical properties, Int J Heat Mass Transfer 39(1) 81-95 (Jan 1996), 3A1182
Plastic deformation of solder joints in pin grid arrays subjected to thermal stress, J Electron Packaging 117(2) 136-140 (Jun 1995), 3A1183
Microstructure and phase transitions in solids, Meccanica 30(5) 433-663 (Oct 1995), 4T513
Thermomechanics and the formulation of the Stefan problem for fully faceted interfaces, Quart Appl Math 53(4) 761-782 (Dec 1995), 4A1234
Model of the effect of alloy content on shell strength during solidification of binary alloys, J Thermal Stresses 18(6) 579-602 (Dec 1995), 5A1194
Numerical prediction of the hardened zone in laser treatment of carbon steel, Acta Mat 44(2) 445-450 (Feb 1996), 6A1170
Powder particle structure formation during solidification in the process of metal atomization, J Mat Processing Tech 54(1-4) 249-260 (Oct 1995), 6A1171
Expressions for predicting the residual stress in surface induction hardening of steel bars, Model Simulation Mat Sci Eng 4(1) 111-122 (Jan 1996), 8A1233
Patterns of deformation in phase transformations and Luders bands, Int J Solids Struct 33(12) 1689-1707 (May 1996), 9A488
Effect of the rate and temperature of deformation on the M_d temperature, martensite morphology and mechanical properties of N26J2T3Nb steel (Polish), Arch Naukio Mat 16(4) 294-310 (1995), 9A1281
Stepwise martensitic transformations in NiTi alloy studied by the DTA method (Polish), Arch Naukio Mat 16(2) 137-144 (1995), 9A1282
Transformation of AlGaAs-GaAs interface under hydrostatic pressure, Acta Phys Polonica A 89(3) 405-409 (Mar 1996), 9A1283
Unified approach to the description of phase transitions and strain localization, Arch Appl Mech 66(4) 242-254 (Mar 1996), 9A1284
Microstructure and properties of CuAlNi shape memory alloys, Arch Naukio Mat 16(4) 253-266 (1995), 9A1295
Prediction of thermal stresses during vertical solidification of a pure metal with density change, J Mat Processing Tech 57(1-2) 85-94 (Feb 1996), 10A1337
Analysis of thermal stress and distortion in bead-on-plate welding using laminated isotropic plate theory, J Mat Processing Tech 57(3-4) 337-344 (Feb 1996), 12A1287

412L. Composite materials

Dynamic inelastic response and buckling of metal matrix composite infinitely wide plates due to thermal shocks, Mech Composite Mat Struct 2(3) 257-271 (Sep 1995), 1A664
Stress distribution in a dissimilar materials joint for complex singular eigenvalues under thermal loading, J Thermal Stresses 18(4) 407-419 (Aug 1995), 1A1294
Calculation of deformative and thermal properties of multiphase composite materials filled with composite or hollow spherical inclusions by the effective medium method, Mech of Composite Mat T31(4) 462-472 (Aug 1995), 2A1156
Nonsymmetrical temperature fields and strength in cylinders of nonhomogeneous composites (Russian), Mech of Composite Mat T31(4) 494-500 (Aug 1995), 2A1157
Thermal residual stresses in metal matrix composites: A review, Appl Composite Mat 2(1) 1-30 (1995), 2A1158
Thermoelastic stress analysis of orthotropic composites, Exp Mech 35(3) 257-265 (Sep 1995), 2A1159
Axial and interfacial shear stresses due to thermal mismatch in hybrid composite sheets, Composites Sci Tech 54(4) 417-422 (1995), 3A492
Relationship between interphase composition, material properties, and residual thermal stresses in composite materials, J Adhesion 52(1-4) 101-113 (1995), 3A1184
Thermal expansion of composites, J Mat Sci Mat Med 6(11) 624-629 (Nov 1995), 4A1235
Thermomechanical model of nonlinear deformation of carbon-carbon composites with 3D reinforcements, J Machinery Manuf Reliab 2 52-57 (1995), 5T1195
Transient thermal deformations of the interphase in polymer composites, J Adhesion 53(1-2) 69-78 (1995), 5A1196
Thermally-induced deformations of constrained and unconstrained orthotropic composite rings, Composites Sci Tech 55(3) 287-315 (1995), 6A426
Closed-form solution of the transverse effective thermal conductivity of woven fabric composites, J Composite Mat 29(17) 2280-2294 (1995), 6A1123
High temperature behavior of long fiber reinforced titanium under transverse loading, Acta Mat 44(2) 643-656 (Feb 1996), 6A1172
Thermal expansion of polycrystalline aggregates consisting of elongated crystals and containing cylindrical pores or inclusions, J Mech Phys Solids 44(1) 137-153 (Jan 1996), 6A1173
Thermoelastic properties of short-coated fiber composites: Effects of length and orientation distributions, Composites Sci Tech 55(4) 329-341 (1995), 7A1293
Macrorheological theory of hot compaction of composites, Mech of Composite Mat T31(6) 840-845 (Dec 1995), 8A560
Prediction of thermal cycling-induced matrix cracking, J Reinforced Plastics Composites 15(2) 124-140 (Feb 1996), 8A657
Homogenization-based method for predicting thermal expansion coefficients of composite materials (Chinese), J Dalian Univ Tech 35(4) 451-457 (Aug 1995), 8A1234
Technique for locally increasing surface heat spreading and through-thickness thermal conductivity of graphite-epoxy laminates, J Composite Mat 30(2) 231-247 (1996), 8A1235
Thermal buckling analysis of laminated composite plates with temperature-dependent material properties (Chinese), J Dalian Univ Tech 35(4) 463-467 (Aug 1995), 8A1236
Thermo-mechanical regulation of residual stresses in polymers and polymer composites, J Composite Mat 30(3) 406-415 (1996), 8A1237
Temperature and cure in pultruded composites using multi-step reaction model for resin, J Reinforced Plastics Composites 15(3) 295-321 (Mar 1996), 9A724
Effect of temperature on rheological property of fresh cement paste in high flowing concrete (Japanese), J Soc Mat Sci Japan 45(2) 230-234 (Feb 1996), 9A1038
Effect of water on thermal stresses in polymer composites, J Appl Mech 63(1) 173-179 (Mar 1996), 9A1285
Effective thermoelastic moduli of a unidirectional fiber composite containing interfacial arc microcracks, J Appl Mech 63(1) 210-217 (Mar 1996), 9A1286
First order approximation of effective thermal conductivity for a nonlinear composite, J Tech Phys 36(4) 429-432 (1995), 9A1287
Nonlinear damped vibrations of simply supported sandwich plates in a rapidly changing temperature field, Nonlinear Dyn 9(4) 369-389 (Apr 1996), 9A1288
Nonlinear thermo-viscoelastic analysis of interlaminar stresses in laminated composites, J Appl Mech 63(1) 218-224 (Mar 1996), 9A1289
Comparative investigations of thermal conductivity of selected plastics using a steady-state and transient heat conduction method, J Tech Phys 36(4) 477-484 (1995), 9A1293
Finite-element analysis of selectively SiC fiber-reinforced titanium composites, Int J Fracture 75(2) 137-155 (1995), 10A12
Determination of temperature variable properties of composite materials: Methodology and experimental results, J Reinforced Plastics Composites 15(5) 479-496 (May 1996), 10A582
Dynamic mechanical analysis of pultruded glass-graphite-epoxy hybrid composites at elevated temperatures, J Reinforced Plastics Composites 15(5) 497-532 (May 1996), 10A588
Controlling thermal stresses in composites by means of fiber prestress, J Composite Mat 30(4) 486-502 (1996), 10A1338
Cylindrical bending of hybrid laminates under thermo-electro-mechanical loading, J Thermal Stresses 19(3) 287-296 (May 1996), 10A1339
Thermal residual stresses in bonded dissimilar materials and their singularities, JSME Int J Ser A 39(2) 197-203 (Apr 1996), 10A1340
Thermally-induced shapes of unsymmetric laminates, J Composite Mat 30(5) 603-626 (1996), 10A1341
Wigner potential method in the investigation of thermal properties of regular composites, Arch Mech 48(2) 429-442 (1996), 10A1342
Elastic response of post- and *in situ* consolidated laminated cylinders, Composites Part A Appl Sci and Manuf 27A(6) 437-446 (1996), 11A1250
Exact method for dynamic analysis of rectangular laminated orthotropic plates under heating load, J Composite Tech Res 18(2) 135-139 (Apr 1996), 11A1251
Thermal model for 3D irregular shaped pultruded fiberglass composites, J Composite Mat 30(6) 692-721 (1996), 11A1252
Thermal residual stresses in the analysis of fiber-bridged matrix crack growth in titanium matrix composites, J Composite Tech Res 18(2) 67-79 (Apr 1996), 11A1253
New equation for the determination of the thermal expansion coefficient of particulate composites, Adv Composites Letters 5(1) 15-19 (1996), 12A532
Theory and synthesis of advanced thermal-protective composite materials, Appl Composite Mat 2(6) 367-384 (1995), 12A1288

412Y. Computational techniques

Augmented Lagrangian algorithms for thermomechanical contact problems with friction, Int J Numer Methods Eng 38(17) 2929-2949 (Sep 1995), 1A1295
Integral equations of thermoelasticity and thermoconductivity for cracked isotropic or anisotropic multiply connected bodies with reinforcement, Arch Mech 47(2) 173-202 (1995), 1A1296
Energy estimates and energy control of numerical stability in coupled dynamic thermoelasticity, Mech Res Commun 22(5) 467-472 (Oct 1995), 2T1153
Fundamental collocation method applied to plane thermoelasticity problems, Comput Struct 57(5) 795-797 (Dec 1995), 2A1160
BEM applied to 2D thermoelastic contact problems including conduction and forced convection in interstitial zones, Eng Anal Boundary Elements 15(3) 249-259 (1995), 3A1185
Laser processing: Numerical simulation of heat transfer phenomena, Arch Thermodyn 15(1-4) 41-62 (1994), 3A1186
Numerical modeling of temperature fields using the multigroup least-squares method, Bull Polish Acad Sci Tech Sci 43(3) 303-313 (1995), 3A1187
Boundary element analysis of anisotropic bodies under thermo-mechanical body force loadings, Comput Struct 58(4) 715-726 (Feb 1996), 4A1236
Boundary element analysis of thermoelastic contact problems, Eng Anal Boundary Elements 15(4) 329-337 (1995), 4A1237
Fundamental solution in thermoelasticity with two relaxation times for cylindrical regions, Int J Eng Sci 33(14) 2011-2020 (Nov 1995), 4A1238
Three-dimensional solutions for coupled thermoelectroelastic response of multilayered plates, Comput Methods Appl Mech Eng 126(3-4) 355-371 (Oct 1995), 4A1239
Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, J Eng Indust 117(3) 418-422 (Aug 1995), 5A779
Boundary element analysis of viscoelastic solids under transient thermal state, Eng Anal Boundary Elements 16(1) 35-39 (1995), 5A1197
Contour integrals for 2D thermoelastic cracked bodies, Eng Anal Boundary Elements 16(1) 47-51 (1995), 5A1198
Steady thermal stress analysis by improved multiple-reciprocity BEM, J Thermal Stresses 18(6) 603-620 (Dec 1995), 5A1199
Parameter sensitivity in nonlinear thermal problems, Comp Assisted Mech Eng Sci 2(4) 253-270 (1995), 6A16
Mathematical modeling of brush seals, Int J Heat Fluid Flow 16(6) 493-500 (Dec 1995), 6A1157
Numerical modeling of thermal waves via internal state variable approach, Comp Assisted Mech Eng Sci 2(4) 307-319 (1995), 6A1168
Analysis of selected components of the interferometric thermal expansion measurement error by means of numerical simulation, J Tech Phys 36(3) 235-252 (1995), 6A1174
Analytical study on the laser induced reverse-plugging effect by using the classical elastic plate theory - I: Temperature fields, Appl Math Mech 16(10) 913-924 (Oct 1995), 6A1175
Plane quasi-stationary thermal problems with convective boundary condition, J Theor Appl Mech 34(1) 143-158 (1996), 6A1176
Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), J Dalian Univ Tech 35(4) 511-515 (Aug 1995), 8A1232
Selected problems of linear asymmetrical thermoelasticity, J Thermal Stresses 19(2) 185-206 (Mar 1996), 8A1238
Steady-state nonlinear heat transfer in stiffened composite plates and shells by an exactly integrated facet triangular element, Comput Methods Appl Mech Eng 129(1-2) 53-79 (Jan 1996), 8A1239
Two-dimensional thermal stress analysis under unsteady state by the improved BEM, J Thermal Stresses 19(2) 107-121 (Mar 1996), 8A1240
Anharmonic properties of alkali halides and cyanides, Acta Phys Polonica A 89(1) 75-90 (Jan 1996), 9A485
Boundary element analysis of heat conduction and thermal stresses in contact problems using independent meshing, Comput Struct 59(4) 729-741 (May 1996), 9A1267
First order approximation of effective thermal conductivity for a nonlinear composite, J Tech Phys 36(4) 429-432 (1995), 9A1287
Application of BEM to 3D problems of coupled thermoelasticity, Eng Anal Boundary Elements 16(4) 297-303 (1995), 9A1290
Computation of large shear deformations of a thermoplastic material, Numer Methods PDE 12(3) 393-406 (May 1996), 9A1291
Generalized method of Schwarz and addition theorems in mechanics of materials containing cavities, Arch Mech 47(6) 1169-1181 (1995), 9A1292
Comparative investigations of thermal conductivity of selected plastics using a steady-state and transient

heat conduction method, J Tech Phys 36(4) 477-484 (1995), 9A1293
Adaptive FE technique for thermal stress analysis of built-up structures, JSME Int J Ser A 39(2) 223-230 (Apr 1996), 10A8
Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, JSME Int J Ser A 39(2) 216-222 (Apr 1996), 10A1331
Wigner potential method in the investigation of thermal properties of regular composites, Arch Mech 48(2) 429-442 (1996), 10A1342
Axisymmetric thermal stress analysis in the steady state with heat generation in the region by BEM, J Thermal Stresses 19(3) 273-286 (May 1996), 10A1343
A posteriori error estimation and adaptive mesh refinement for combined thermal-stress FE analysis, Comput Struct 59(6) 1149-1163 (Jun 1996), 10A1344
Numerical simulation of welding and quenching processes using transient thermal and thermo-elastoplastic formulations, Comput Struct 60(1) 131-154 (Jul 1996), 11A837
Boundary element method for micropolar thermoelasticity, Eng Anal Boundary Elements 17(1) 19-26 (1996), 11A1254
Distributed-parameter optimization and topology design for nonlinear thermoelasticity, Comput Methods Appl Mech Eng 132(1-2) 117-134 (May 1996), 12A812
Hybrid numerical analysis of heat transfer and thermal stress in a solidifying body using FVM and FEM, Int J Eng Sci 34(8) 901-922 (Jun 1996), 12A1289
Thermoviscoelastic contact analysis with friction by an incremental thermal relaxation procedure, Comput Methods Appl Mech Eng 130(1-2) 151-162 (Mar 1996), 12A1290

412Z. Experimental techniques

Positron annihilation study of the ageing effects in the Cu-Zn-Sn parent phase, Acta Phys Polonica A 88(2) 327-332 (Aug 1995), 1A1297
Sapphire optical fiber-based interferometer for high temperature environmental applications, Smart Mat Struct 4(2) 147-151 (Jun 1995), 1A1298
Thermal deformation analysis of various electronic packaging products by moire and microscopic moire interferometry, J Electron Packaging 117(3) 185-191 (Sep 1995), 3A1188
Study on thermal strain using subscale specimens, J Propulsion Power 12(1) 210-213 (Feb 1995), 6A1177
Development of simple thermal fatigue test method using low-thermal expansion restraining holders (Japanese), J Soc Mat Sci Japan 45(1) 125-130 (Jan 1996), 7A1291
Apparatus for measuring the energy of pulse radiation of a laser, J Tech Phys 36(4) 421-428 (1995), 9A860
Effect of the rate and temperature of deformation on the M_d temperature, martensite morphology and mechanical properties of N26J2T3Nb steel (Polish), Arch Naukio Mat 16(4) 294-310 (1995), 9A1281
Stepwise martensitic transformations in NiTi alloy studied by the DTA method (Polish), Arch Naukio Mat 16(2) 137-144 (1995), 9A1282
Transformation of AlGaAs-GaAs interface under hydrostatic pressure, Acta Phys Polonica A 89(3) 405-409 (Mar 1996), 9A1283
Comparative investigations of thermal conductivity of selected plastics using a steady-state and transient heat conduction method, J Tech Phys 36(4) 477-484 (1995), 9A1293
Kinetics of strain relaxation in crystalline and amorphous solid states, Acta Phys Polonica A 89(3) 431-436 (Mar 1996), 9A1294
Microstructure and properties of CuAlNi shape memory alloys, Arch Naukio Mat 16(4) 253-266 (1995), 9A1295
Thermomechanical technique for measuring residual stress, Exp Tech 20(2) 25-27 (Apr 1996), 9T1296
Experimental and statistical investigation of changes in surface roughness associated with spray quenching, Int J Heat Mass Transfer 39(10) 2023-2037 (Jul 1996), 10A1345
Thermoelastic stress analysis with standard thermographic equipment by means of statistical noise rejection, Res Nondestructive Eval 7(4) 239-251 (1996), 10T1346

414. MASS TRANSFER

Mathematical modeling for permeable behavior of non-homogeneous material and its applicabilities (Japanese), Proc JSCE 526(II) 63-77 (Nov 1995), 6A1178

414B. Convection dominated transfer

Time-dependent transport by convection and diffusion with exchange between two phases, J Fluid Mech 297 373-401 (Aug 1995), 2A1161
Experimental thermal and fluid science, Exp Thermal Fluid Sci 11(3) 226-309 (Oct 1995), 4A1240
Local convective mass transfer on circular cylinder with transverse annular fins in crossflow, Int J Heat Mass Transfer 39(5) 1093-1101 (Mar 1996), 6A1179
Mixed-convection mass transfer in a fully developed horizontal square channel flow, Exp Heat Transfer 8(3) 185-193 (Sep 1995), 6A1180
Free convective mass transfer at down-pointing pyramidal electrodes, Int J Heat Mass Transfer 39(6) 1297-1305 (Apr 1996), 7A1294
Mass transfer from impinging swirling jets (Spanish), J Brazilian Soc Mech Sci 17(3) 322-330 (1995), 7A1295
Mass transfer at impact flowing with Coanda effect (German), Heat and Mass Transfer Warme 31(3) 121-125 (Feb 1996), 8A1241
Turbulence, Heat, and Mass Transfer - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey (Begell House, New York, 1995) 9N21
Control of transport in a chaotic lattice, Physica D 93(3-4) 191-209 (Jun 1996), 11A85

414C. Sublimation or ablation

Stability of cylindrical bodies in the theory of surface diffusion, Physica D 89(1-2) 123-135 (Dec 1995), 6A1181

414D. Diffusion

Finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities, Numer Math 71(2) 135-157 (Aug 1995), 1A24
Absorbing boundary conditions for diffusion equations, Numer Math 71(2) 185-224 (Aug 1995), 1A1299
Constant front speed in weakly diffusive non-Fickian systems, SIAM J Appl Math 55(4) 1039-1058 (Aug 1995), 1A1300
Modeling the heat and mass transfer analysis during oil-frying of cylindrical sausages, Int J Energy Res 19(7) 555-565 (Sep 1995), 2A1125
Time-dependent transport by convection and diffusion with exchange between two phases, J Fluid Mech 297 373-401 (Aug 1995), 2A1161
Stable pattern and standing wave formation in a simple isothermal cubic autocatalytic reaction scheme, J Eng Math 29(5) 413-436 (Sep 1995), 2A1167
Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), Proc JSCE 521(II-32) 93-100 (Aug 1995), 3A969
Remarks upon the contribution of J Stefan to the understanding of diffusion processes, Int J Heat Mass Transfer 39(1) 218-220 (Jan 1996), 3T1099
Analytic solutions for contaminant transport under nonequilibrium conditions, Appl Sci Res 55(1) 31-38 (Jul 1995), 3A1189
Corrosion of reinforced concrete due to stress-assisted diffusion, Arch Civil Eng 41(3) 447-460 (1995), 3A1190
Theory of poroelastic beams with axial diffusion, J Mech Phys Solids 43(12) 2023-2042 (Dec 1995), 4A541
Traveling waves solution of convection-diffusion systems whose convection terms are weakly non-conservative: Application to the modeling of two-phase fluid flows, SIAM J Appl Math 55(6) 1552-1576 (Dec 1995), 4A1002
Stable nonGaussian diffusive profiles, Nonlinear Anal 26(3) 583-593 (Feb 1996), 4T1241
Mechanism and estimation of leakage through concrete crack (Japanese), Proc JSCE 523(III-32) 83-90 (Sep 1995), 4A1302
Existence and stability of boundary layer's solutions to a system of reaction-diffusion equations, Nonlinear Anal 26(4) 641-657 (Feb 1996), 5T1200
Nonclassical symmetry analysis of nonlinear reaction-diffusion equations in two spatial dimensions, Nonlinear Anal 26(4) 735-754 (Feb 1996), 5T1201
Nonlinear diffusion controlled particle growth: A variational and asymptotic approach, Int J Eng Sci 34(1) 21-46 (Jan 1996), 5A1202
Parabolic equation with slow and fast diffusions, Nonlinear Anal 26(4) 813-822 (Feb 1996), 5T1203
Aspects of simulation of the microclimate between apparel and it's user, Fibres Textiles in E Europe 2(4) 20-23 (Dec 1994), 6A1182
Chloride migration through clayey silt underlain by fine sand or silt, J Geotech Eng 122(1) 60-68 (Jan 1996), 6A1183
Moisture diffusion in variously shaped fibor reinforced composites, Comput Struct 59(1) 157-166 (Apr 1996), 7A1296
Granular thermal diffusion in flows of binary-sized mixtures, Acta Mech 114(1-4) 121-137 (1996), 8A927
Asymptotic behavior of the interface of some nonlinear diffusion problems, Math Methods Appl Sci 19(5) 375-380 (Mar 1996), 8A1242
Computer simulation used for solid state diffusion investigations (Polish), Arch Naukio Mat 16(2) 127-135 (1995), 9A1297
Degeneracy of a fast-diffusion equation and stability, SIAM J Math Anal 27(2) 476-485 (Mar 1996), 9A1298
Exact solutions for 1D transport with asymptotic scale-dependent dispersion, Appl Math Model 20(4) 298-308 (Apr 1996), 9A1299
Modeling distribution storage water quality: An analytical approach, Appl Math Model 20(4) 329-338 (Apr 1996), 9A1300
Nonequilibrium spatial correlations of reagents in model reaction diffusion system, Acta Phys Polonica B 827(3) 747-765 (Mar 1996), 9T1301
Equilibrium solutions of diffusion equations with nonlinear boundary conditions, Z Angew Math Phys 47(2) 194-209 (Mar 1996), 10A1347
Quasisolutions and global attractor of reaction-diffusion systems, Nonlinear Anal 26(12) 1889-1903 (Jun 1996), 10T1348
Unsteady diffusion and absorption problems, IMA J Appl Math 56(1) 1-19 (1996), 10A1349
Numerical anomalies in simulating directional solidification of binary alloys, Numer Heat Transfer A 29(6) 639-644 (May 1996), 11A1255
Symmetric singularity formation in lubrication-type equations for interface motion, SIAM J Appl Math 56(3) 681-714 (Jun 1996), 11A1256
Stationary diffusion in heterogeneous media, IMA J Appl Math 56(2) 133-144 (Apr 1996), 12A1291

414E. Convection with diffusion

Generalized integral forms for friction, heat, and mass transfer coefficients, Int J Heat Mass Transfer 38(16) 3103-3108 (Nov 1995), 1A1213
Heat and mass transfer in superheated vapor jet condensation, Heat Transfer Res 25(6) 765-769 (1993), 1A1242
Accurate dynamic modeling of contaminant dispersion in channels, SIAM J Appl Math 55(4) 1016-1038 (Aug 1995), 1A1301
Fourier analysis of a robust multigrid method for convection-diffusion equations, Numer Math 71(3) 365-397 (Sep 1995), 1A1302
Mass transfer characteristics for a rotating cup-like cylinder, Int J Heat Mass Transfer 38(16) 2959-2967 (Nov 1995), 1A1303
Numerical analysis of higher order harmonics in the response of a mass transfer probe, Int J Heat Mass Transfer 38(14) 2667-2675 (Sep 1995), 1A1304
Two models of fluid flow and mass transfer at the trailing edge of a gas slug, Int J Heat Mass Transfer 38(18) 3341-3347 (Dec 1995), 2A957
Boundary-layer control by heat and mass transfer, Int J Heat Mass Transfer 38(17) 3209-3217 (Nov 1995), 2A1102
Convection-diffusion equation with periodic boundary conditions, Appl Math letters 8(3) 55-61 (May 1995), 2A1162
Experimental study on mass-heat transfer of circular jet impingement in cubical cavities, J Enhanced Heat Transfer 2(4) 251-261 (1995), 2A1163
Combined heat and mass transfer by laminar natural convection from a vertical plate, Heat and Mass Transfer Warme 30(6) 369-376 (Sep 1995), 3A1030
Method of heat and mass transfer enhancement in film evaporation, Int J Heat Mass Transfer 39(1) 97-108 (Jan 1996), 3A1094
Effect on additives on the regeneration of a dilute absorbent, J Thermophys Heat Transfer 9(4) 743-748 (Dec 1995), 3A1191
Jet-flow scavenging of a curing oven - Part II: Numerical simulation, J Electron Packaging 117(3) 220-224 (Sep 1995), 3A1192
Numerical study of natural convection from a vertical surface due to combined buoyancies, Numer Heat Transfer A 28(4) 409-429 (Oct 1995), 3A1193
Probability and dispersion theory, IMA J Appl Math 55(2) 149-162 (1995), 3A1194
Advances in Enhanced Heat-Mass Transfer and Energy Efficiency, HTD-Vol 320-Vol 1 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco (ASME Press, New York, 1995) 5N28
Free convective heat and mass transfer in processing polymer materials, Heat Transfer Res 25(7) 888-893 (1993), 5A1147
Level set approach to a unified model for etching, deposition, and lithography - Part II: 3D simulations, J Comput Phys 122(2) 348-366 (Dec 1995), 5A1208
Buoyancy effects on the mass transfer in absorption with a nonabsorbable gas, Int J Heat Fluid Flow 16(6) 536-545 (Dec 1995), 6A1184
Exact solution for contaminant transport with nonlinear sorption, Appl Math letters 9(1) 83-87 (Jan 1996), 6A1185
Mathematical modeling and experimental measurements of moving boundary problems associated with exothermic heat of mixing, Int J Heat Mass Transfer 39(5) 1005-1021 (Mar 1996), 6A1186
Combined buoyancy effects of thermal and mass diffusion on laminar forced convection in horizontal rectangular ducts, Int J Heat Mass Transfer 39(7) 1479-1488 (May 1996), 7A1217
Maximal effective diffusivity for time-periodic incompressible fluid flows, SIAM J Appl Math 56(1) 40-56 (Feb 1996), 7A1297
Numerical simulation of unsteady convective intrusions in a thermohaline stratification, Int J Heat Mass Transfer 39(6) 1183-1201 (Apr 1996), 7A1298
Dissolution effects in transport in porous media, SIAM J Appl Math 56(1) 89-118 (Feb 1996), 7A1357
Time-periodic transport in heterogeneous porous media, Appl Math Comput 75(2-3) 119-138 (Mar 1996), 7A1360
Heat (mass) transfer in a serpentine channel with right-angled turns, J Heat Transfer 118(1) 211-213 (Feb 1996), 8T1072
Computational heat and mass transport in concrete walls exposed to fire, Numer Heat Transfer A 29(4) 373-395 (Mar 1996), 8A1243
Entrainment and mixing in vertical buoyant light-gas plumes, J Energy Resources Tech 118(1) 77-81 (Mar 1996), 8A1244
Mass transfer effects on flow past an impulsively started infinite vertical plate with constant mass flux: An exact solution, Heat and Mass Transfer Warme 31(3) 163-167 (Feb 1996), 8A1245
Study of absorption enhancement by wavy film flows, Int J Heat Fluid Flow 17(1) 71-77 (Feb 1996), 8A1246
New model describing convective-dispersive phenomena derived by using the mixing-cell concept, Appl Math Model 20(4) 309-320 (Apr 1996), 9A1302
Heat exchange between a gas suspension and a wall, Heat Transfer Res 25(8) 930-933 (1993), 10A1283
Dispersion of a solute in oscillating flow through a channel, Heat and Mass Transfer Warme 31(4) 249-256 (Apr 1996), 10A1350
Effect of natural convection in liquid phase mass transport coefficient measurements: The case of thermosolutal convection, Int J Heat Mass Transfer 39(10) 2177-2182 (Jul 1996), 10A1351
Effect of aspect ratio on mass transfer from a rotating cup, Int J Heat Mass Transfer 39(11) 2375-2377 (Jul 1996), 11T1257
Mass transfer measurements from a blunt-faced flat plate in a uniform flow, Int J Heat Fluid Flow 17(2) 179-182 (Apr 1996), 11T1258
Multiple bifurcations in triple convection with non-ideal boundary conditions, Physica D 93(1-2) 1-22 (May 1996), 11A1267
Conjugate heat and mass transfer in a desiccant-airflow system: A numerical solution method, Numer Heat Transfer A 29(7) 689-706 (May 1996), 12A1292
General drift decomposition for diffusion with advection, IMA J Appl Math 56(2) 177-181 (Apr 1996), 12A1293
Membrane diffusion and flux response, Appl Math letters 9(4) 35-40 (Jul 1996), 12A1294

414F. Double diffusion and other combined effects

PHASES model for binary-constituent solid-liquid phase transition - Part I: Numerical method, Numer Heat Transfer B 28(2) 111-126 (Sep 1995), 1A1215
PHASES model for binary-constituent solid-liquid phase transition - Part 2: Applications, Numer Heat Transfer B 28(2) 127-137 (Sep 1995), 1A1216
Numerical simulation of double diffusive convection in a V-shaped sump, Int J Heat Fluid Flow 16(4) 236-243 (Aug 1995), 1A1305
Numerical study of the combined effects of microsegregation, mushy zone permeability and flow, caused by volume contraction and thermosolutal convection, on macrosegregation and eutectic formation in binary alloy solidification, Int J Heat Mass Transfer 38(18) 3455-3473 (Dec 1995), 2A1105
Effect of the temperature dependence of fluid properties on the migration of an interface in double diffusive natural convection, Int J Heat Mass Transfer 38(18) 3413-3421 (Dec 1995), 2A1164
Mass exchange between droplets during head-on collisions of multisize sprays, Int J Heat Mass Transfer 38(18) 3369-3383 (Dec 1995), 2A1165
Mass transfer into a liquid film flowing concurrently with gas flow: Correlation of average mass-transfer coefficient, Heat Transfer Japan Res 23(6) 485-496 (1994), 2A1166
Effect of turbulence on solidification of a binary metal alloy with electromagnetic stirring, J Heat Transfer 117(3) 716-724 (Aug 1995), 3A1195
Compositionally convective and morphological instabilities of a binary fluid layer under freezing with nonlinear analysis, Int J Heat Mass Transfer 39(2) 289-298 (Jan 1996), 4A1242

Double-diffusive convection in an inclined slot filled with porous medium, Eur J Mech B 14(5) 629-652 (1995), 4A1243

Double-diffusive convection with two stabilizing gradients: Strange consequences of magnetic buoyancy, J Fluid Mech 301 383-406 (Oct 1995), 4A1244

Effect of rotation on double-diffusive convection in a laterally heated vertical slot, J Fluid Mech 301 345-370 (Oct 1995), 4A1245

Effect on interfacial deformation on the onset of convective instability in a doubly diffusive fluid layer, Int J Heat Mass Transfer 39(2) 407-418 (Jan 1996), 4A1246

Theoretical study of a laminar jet in a double-diffusion environment, J Fluids Eng 117(3) 341-346 (Sep 1995), 5A948

Experimental study of a laminar jet in a double-diffusion environment, J Fluids Eng 117(3) 347-354 (Sep 1995), 5A949

Evaluation of the relaxation time of heat and mass exchange in the liquid-vapor bubble flow, Int J Heat Mass Transfer 39(4) 753-759 (Mar 1996), 5A1161

Thermosolutal transport phenomena in large Lewis number electrochemical systems, Int J Heat Mass Transfer 39(4) 841-850 (Mar 1996), 5A1204

Penalty upwind FEM for diffusive convection problem in double-diffusive system, J Hydrodyn 7(4) 63-71 (1995), 6A1187

Numerical simulation of unsteady convective intrusions in a thermohaline stratification, Int J Heat Mass Transfer 39(6) 1183-1201 (Apr 1996), 7A1298

Heat islands influence on the Dispersion of Contaminants by the atmosphere, J Brazilian Soc Mech Sci 17(3) 314-321 (1995), 7A1387

Bifurcation study of double diffusive flows in a laterally heated stably stratified liquid layer, Int J Heat Mass Transfer 39(13) 2699-2710 (Sep 1996), 11A1259

Cooperating thermosolutal convection in enclosures - I: Scale analysis and mass transfer, Int J Heat Mass Transfer 39(13) 2671-2681 (Sep 1996), 11A1260

Cooperating thermosolutal convection in enclosures - II: Heat transfer and flow structure, Int J Heat Mass Transfer 39(13) 2683-2697 (Sep 1996), 11A1261

Effects of binary mixture condensation on turbulent mixed convection heat and mass transfer in a vertical channel, Numer Heat Transfer A 29(6) 599-612 (May 1996), 11A1262

Linear stability in systems with intensive mass transfer - I: Gas (liquid)-solid, Int J Heat Mass Transfer 39(12) 2571-2580 (Aug 1996), 11A1263

Linear stability in systems with intensive mass transfer - II: Gas-liquid, Int J Heat Mass Transfer 39(12) 2581-2585 (Aug 1996), 11A1264

Linear stability in systems with intensive mass transfer - III: Liquid-liquid, Int J Heat Mass Transfer 39(12) 2587-2592 (Aug 1996), 11A1265

Linear stability in systems with intensive mass transfer - IV: Gas-liquid film flow, Int J Heat Mass Transfer 39(12) 2593-2597 (Aug 1996), 11A1266

Multiple bifurcations in triple convection with non-ideal boundary conditions, Physica D 93(1-2) 1-22 (May 1996), 11A1267

Reaction-diffusion systems: Bifurcation and stabilizing effect of conditions given by inclusions, Nonlinear Anal 27(3) 249-260 (Aug 1996), 12T1295

Simulation of 2D thermosolutal convection in liquid metals induced by horizontal temperature and species gradients, Int J Heat Mass Transfer 39(14) 2883-2894 (Sep 1996), 12A1296

414G. Chemical reaction

Finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities, Numer Math 71(2) 135-157 (Aug 1995), 1A24

Existence of periodic solutions to reaction-diffusion systems with periodic data, SIAM J Math Anal 26(5) 1225-1232 (Sep 1995), 1A1306

Stefan problem for a reaction-diffusion system, SIAM J Math Anal 26(5) 1089-1112 (Sep 1995), 1A1307

Stable pattern and standing wave formation in a simple isothermal cubic autocatalytic reaction scheme, J Eng Math 29(5) 413-436 (Sep 1995), 2A1167

Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part I: Equal diffusivities, Fluid Dyn Res 16(6) 311-333 (Nov 1995), 3A944

Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part II: Different diffusivities for reactant and autocatalyst, Fluid Dyn Res 16(6) 335-359 (Nov 1995), 3A945

Flow reactor models for gas-liquid reactions based on the penetration theory, Heat and Mass Transfer Warme 30(6) 447-454 (Sep 1995), 3A1196

Propagation of isothermal reaction-diffusion waves in coupled autocatalytic systems, IMA J Appl Math 55(2) 117-133 (1995), 3A1197

Stability of stationary solutions for a scalar non-local reaction-diffusion equation, Quart J Mech Appl Math 48(4) 557-582 (Nov 1995), 3A1198

Measurement of mass transfer across a moving mercury-electrolyte interface by an electrochemical method, Exp Fluids 19(5) 353-358 (Sep 1995), 3A1201

Modeling of oxidation in metal matrix composites, Int J Eng Sci 33(15) 2327-2243 (Dec 1995), 4A1247

Reaction-diffusion equations, their approximations and Lyapunov functions, Nonlinear Anal 26(3) 469-478 (Feb 1996), 4T1248

Modeling and the adaptive solution of reactive vapor infiltration problems, Model Simulation Mat Sci Eng 3(6) 737-752 (Nov 1995), 6A589

Eikonal approximation to excitable reaction-diffusion systems: Travelling non-planar wave fronts on the plane, Physica D 89(3-4) 329-345 (Jan 1996), 6A1188

Material-dependent catalytic recombination modeling for hypersonic flows, J Thermophys Heat Transfer 10(1) 131-136 (Mar 1996), 6A1189

Thermophoretic deposition including an application to the outside vapor deposition process, Int J Heat Mass Transfer 39(7) 1429-1438 (May 1996), 7A1299

Dissolution effects in transport in porous media, SIAM J Appl Math 56(1) 89-118 (Feb 1996), 7A1357

Linear stability analysis of reaction fronts in liquids, Quart Appl Math 54(2) 225-247 (Jun 1996), 11A980

Membrane diffusion and flux response, Appl Math letters 9(4) 35-40 (Jul 1996), 12A1294

Reaction-diffusion systems: Bifurcation and stabilizing effect of conditions given by inclusions, Nonlinear Anal 27(3) 249-260 (Aug 1996), 12T1295

414H. Injection or suction

Modeling heat transfer to impinging fuel sprays in direct-injection engines, Atomization and Sprays 5(2) 213-242 (Apr 1995), 5T1266

Initial section of gas nozzle-burner flame with unsymmetrical boundary conditions, Russian Aeronaut 38(3) 37-41 (1995), 11A1268

414I. Porous media

Simultaneous heat and mass transfer in packed bed catalytic reactors, J Thermophys Heat Transfer 9(3) 524-530 (Sep 1995), 1A1220

Viscous air flow pattern in the Stefan diffusion tube: Application to the mutual diffusion in a porous media, Transport Porous Media 19(1) 15-36 (Apr 1995), 1A1308

Cumulative mass approach for column testing, J Geotech Eng 121(10) 696-703 (Oct 1995), 2A1168

Heat and mass transfer with condensation in a fibrous insulation slab bounded on one side by a cold surface, Int J Heat Mass Transfer 38(17) 3253-3262 (Nov 1995), 2A1169

Infiltration and saturated hydraulic conductivity of compacted clay, J Geotech Eng 121(10) 713-722 (Oct 1995), 2A1170

Numerical analysis of fluid flow and mass transfer in a channel with a porous bottom wall, Int J Numer Methods Fluids 21(5) 391-399 (Sep 1995), 2A1171

Analytical approach to coupled heat and moisture transport in soil, Transport Porous Media 20(3) 281-304 (Sep 1995), 4A1315

Computation of permeability and dispersivities of solute or heat in periodic porous media, Int J Heat Mass Transfer 39(4) 661-676 (Mar 1996), 5A1307

Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N31

General mathematical modeling for heat and mass transfer in unsaturated porous media: An application to free evaporative cooling, Heat and Mass Transfer Warme 31(1-2) 49-55 (Dec 1995), 6A1111

Fractional step method for mass transport in groundwater, Int J Numer Methods Heat & Fluid Flow 5(10) 859-875 (Dec 1995), 6A1190

Numerical simulation of the transient moisture transfer through porous insulation, Int J Heat Mass Transfer 39(5) 995-1004 (Mar 1996), 6A1191

Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, Int J Heat Mass Transfer 39(7) 1363-1378 (May 1996), 7A1231

Determination of moisture diffusivity in porous media using moisture concentration profiles, Int J Heat Mass Transfer 39(6) 1273-1280 (Apr 1996), 7A1300

Macroscopic behavior of gas flow with adsorption through a fractured porous medium, Mech Res Commun 23(1) 67-73 (Feb 1996), 7T1359

Jet impingement drying of a moist porous solid, Int J Heat Mass Transfer 39(9) 1911-1923 (Jun 1996), 8A1205

Numerical analysis of heat and mass transfer in drying and pyrolysis of porous media, Numer Heat Transfer A 29(4) 331-355 (Mar 1996), 8A1206

Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, Int J Heat Mass Transfer 39(8) 1687-1695 (May 1996), 8A1247

Symmetry approximation for nonsymmetric permeability tensors and its consequences for mass transport, Transport Porous Media 22(2) 121-136 (Feb 1996), 9A1303

Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, Heat Transfer Res 25(8) 950-953 (1993), 10A1352

Effect of initial moisture distribution on the transient heat flow through wet porous insulations, J Thermal Insulation Build Envelopes 19 348-366 (Apr 1996), 11A1224

Considerations about the effective macrodispersion coefficient, Mec Appl 40(4-6) 503-518 (Dec 1995), 11A1269

Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, Int J Heat Mass Transfer 39(13) 2641-2651 (Sep 1996), 11A1295

Reaction infiltration problem - Part I: Existence, uniqueness, regularity, and singular limit in one space dimension, Nonlinear Anal 27(4) 463-491 (Aug 1996), 12T1297

414J. Transient effects

Multiscale, hybrid mixture theory for swelling systems - I: Balance laws, Int J Eng Sci 34(2) 125-145 (Jan 1996), 5A1205

Multiscale, hybrid mixture theory for swelling systems - II: Constitutive theory, Int J Eng Sci 34(2) 147-169 (Jan 1996), 5A1206

Unsteady diffusion and absorption problems, IMA J Appl Math 56(1) 1-19 (1996), 10A1349

414Y. Computational techniques

High resolution upwind-mixed FEMs for advection-diffusion equations with variable time-stepping, Numer Methods PDE 11(5) 525-538 (Sep 1995), 1A1309

Numerical analysis of fluid flow and mass transfer in a channel with a porous bottom wall, Int J Numer Methods Fluids 21(5) 391-399 (Sep 1995), 2A1171

Avoiding BDF stability barriers in the MOL solution of advection-dominated problems, Appl Numer Math 17(3) 311-318 (Jul 1995), 2A1172

Local simulation of two-phase flows including interface tracking with mass transfer, J Comput Phys 121(1) 142-154 (Oct 1995), 2T1173

Modified equation for dispersive difference schemes, Appl Numer Math 17(3) 299-309 (Jul 1995), 2A1174

Analysis of the diffusion-convection problem by the BEM, Eng Anal Boundary Elements 15(3) 267-275 (1995), 3A1199

Evaluation of covariance matrices in the multistage unified least-squares adjustment of the measurement results, Bull Polish Acad Sci Tech Sci 43(3) 235-302 (1995), 3A1200

Operator splitting algorithm for coupled 1D advection-diffusion-reaction equations, Comput Methods Appl Mech Eng 127(1-4) 181-201 (Nov 1995), 4A1249

Pointwise superconvergence of the streamline diffusion FEM, Numer Methods PDE 12(1) 123-145 (Jan 1996), 5A30

Accurate numerical algorithm for advective transport, Commun Numer Methods Eng 11(12) 1039-1045 (Dec 1995), 5A1207

Level set approach to a unified model for etching, deposition, and lithography - Part II: 3D simulations, J Comput Phys 122(2) 348-366 (Dec 1995), 5A1208

Penalty upwind FEM for diffusive convection problem in double-diffusive system, J Hydrodyn 7(4) 63-71 (1995), 6A1187

Finite volume methods for convection-diffusion problems, SIAM J Numer Anal 33(1) 31-55 (Feb 1996), 7A1301

Numerical studies of optimal grid construction, Numer Methods PDE 12(2) 191-206 (Mar 1996), 7A1302

Particle tracking technique for the Lagrangian-Eulerian FEM in multi-dimensions, Int J Numer Methods Eng 39(7) 1115-1136 (Apr 1996), 9A66

Boundary conditions for FE simulations of convective flows with artificial boundaries, Int J Numer Methods Eng 39(6) 1053-1071 (Mar 1996), 9A1304

Fixed grid numerical technique for the Stefan problems, Bull Polish Acad Sci Tech Sci 43(4) 493-504 (1995), 9A1305

Lagrangian-Eulerian method with adaptively local zooming and peak-valley capturing approach to solve 2D advection-diffusion transport equations, Int J Numer Methods Eng 39(6) 987-1016 (Mar 1996), 9A1306

New approach for building bounded skew-upwind schemes, Comput Methods Appl Mech Eng 129(3) 221-233 (Jan 1996), 9A1307

Application of moving grid control volume FEM to ablation problems, J Thermophys Heat Transfer 10(2) 312-319 (Jun 1996), 10A1353

High-resolution conservative algorithms for advection in incompressible flow, SIAM J Numer Anal 33(2) 627-665 (Apr 1996), 10A1354

Petrov-Galerkin methods for the transient advective-diffusive equation with sharp gradients, Int J Numer Methods Eng 39(9) 1455-1473 (May 1996), 10A1355

Variational principle for entropy in electrochemical transport phenomena, Int J Eng Sci 34(5) 549-560 (Apr 1996), 10A1356

Exponentially fitted shape functions for advection-dominated flow problems in 2D, J Comput Appl Math 67(1) 161-165 (Feb 1996), 11A1270

Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part II: Mass transfer processes, Numer Heat Transfer A 29(8) 825-842 (Jun 1996), 12A1298

Solution of the 1D convection-diffusion equation by a multilevel Petrov-Galerkin method, Int J Numer Methods Eng 39(12) 2095-2109 (Jun 1996), 12A1299

414Z. Experimental techniques

Numerical analysis of higher order harmonics in the response of a mass transfer probe, Int J Heat Mass Transfer 38(14) 2667-2675 (Sep 1995), 1A1304

Determination of the diffusion coefficients of iron and chromium in Pb-17Li, Int J Heat Mass Transfer 38(16) 3085-3090 (Nov 1995), 1A1310

Measurement of mass transfer across a moving mercury-electrolyte interface by an electrochemical method, Exp Fluids 19(5) 353-358 (Sep 1995), 3A1201

Mixed-convection mass transfer in a fully developed horizontal square channel flow, Exp Heat Transfer 8(3) 185-193 (Sep 1995), 6A1180

Fractional step method for mass transport in groundwater, Int J Numer Methods Heat & Fluid Flow 5(10) 859-875 (Dec 1995), 6A1190

Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, Fibres Textiles in E Europe 2(4) 40-42 (Dec 1994), 6A1192

Holographic interferometry study of heat and mass transfer of liquid media in capillaries, Heat Transfer Res 25(8) 954-956 (1993), 10A1357

416. COMBUSTION

416B. Fundamentals

Thermal explosion model, Appl Math Comput 71(2-3) 201-210 (Sep 1995), 1A1311

Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, J Fluids Eng 117(2) 289-297 (Jun 1995), 1A1335

Thermodynamic analysis of the rich flammability limits of fuel-diluent mixtures in air, J Energy Resources Tech 117(3) 239-242 (Sep 1995), 5A1122

Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, Combust Sci Tech 109(1-6) 35-52 (Nov 1995), 7A1303

Introduction to Combustion: Concepts and Applications (McGraw-Hill, New York, 1996) 8R32

Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation (Springer-Verlag, New York, 1996) 9R24

Equations for the concentration probability distribution function in turbulent mixing and combustion problems, TsAGI 1(3) 3-36 (1994), 10T1358

Formation of turbulent eddies in jet diffusion flames, JSME Int J Ser B 39(2) 433-439 (May 1996), 11T1274

Transport Phenomena in Combustion - Proc of 8th Int Symp, San Francisco CA, July 1995 (Taylor & Francis, PA, 1996) 12N46

416C. Ignition (thermal and heterogeneous)

Mixing layer ignition of hydrogen, Combust Flame 103(1-2) 129-141 (Oct 1995), 1A1312

Study of ignition process of diesel sprays, JSME Int J Ser B 38(3) 483-489 (Aug 1995), 1T1313

Autoignition of nonuniform mixtures in chambers of variable volume, Combust Sci Tech 105(4-6) 245-263 (Apr 1995), 2A1175

Model for low-temperature ignition of magnesium particles, Combust Sci Tech 105(4-6) 279-294 (Apr 1995), 2A1176

Numerical analysis of the autoignition of methanol, ethanol, N-heptane and N-octane sprays with

detailed chemistry, Combust Sci Tech 105(4-6) 265-278 (Apr 1995), 2A1177
PDF modeling of autoignition in nonpremixed turbulent flows, Combust Sci Tech 105(4-6) 229-243 (Apr 1995), 2A1178
Simulation of the behavior of rich hydrogen-air flames near the flammability limit, Combust Sci Tech 105(4-6) 183-193 (Apr 1995), 2A1179
Two-dimensional simulation of turbulent autoignition with transient laminar flamelet source term closure, Combust Sci Tech 105(4-6) 211-227 (Apr 1995), 2A1180
Effects of mean flow on premixed flame ignition, Combust Sci Tech 106(1-3) 19-39 (May 1995), 3A1202
Experimental study and modeling of dodecane ignition in a diesel engine, Combust Flame 103(3) 207-220 (Nov 1995), 3A1203
Gas-phase ignition of accelerated boundary-layer flows on strongly catalytic surfaces, Combust Flame 103(3) 161-170 (Nov 1995), 3A1204
Ignition and combustion of single, levitated char particles, Combust Flame 103(3) 181-193 (Nov 1995), 3A1205
Modeling methane cool flames and ignitions, Combust Sci Tech 106(1-3) 83-102 (May 1995), 3A1237
Ignition of boron particles coated by a thin titanium film, J Propulsion Power 11(6) 1125-1131 (Dec 1995), 4A1250
Deflagration to detonation transition fueled by dust layers, Shock Waves 5(4) 249-258 (Dec 1995), 5A213
Asymptotic and numerical analyses of ignition of a fuel jet in a supersonic airstream, Combust Sci Tech 108(1-3) 47-65 (Sep 1995), 5A1209
Computational and experimental studies of laser-induced thermal ignition in premixed ethylene-oxidizer mixtures, Combust Flame 103(4) 253-280 (Dec 1995), 5A1210
From spark ignition to flame initiation, Combust Sci Tech 108(1-3) 1-30 (Sep 1995), 5A1211
Study on ignition criterion of a large carbon-char particle, Combust Sci Tech 108(1-3) 91-101 (Sep 1995), 5A1212
Two stage ignition of a n-heptane isolated droplets, Combust Sci Tech 108(1-3) 103-119 (Sep 1995), 5A1213
Unsteady planar diffusion flames: Ignition, travel, burnout, Combust Sci Tech 107(1-3) 93-126 (Jul 1995), 5A1214
Time-dependent laser ignition of a combustible stagnant boundary layer, IMA J Appl Math 55(3) 257-268 (1995), 6A1193
Validity of droplet ignition criteria derived assuming gas-phase quasistcadiness, J Propulsion Power 12(1) 18-25 (Feb 1995), 6A1194
Radiative ignition of volatile gases on a vertical fuel plate, Combust Sci Tech 109(1-6) 309-325 (Nov 1995), 7A1258
Bifurcation behavior of premixed hydrogen-air mixtures in a continuous stirred tank reactor, Combust Sci Tech 109(1-6) 347-371 (Nov 1995), 7A1304
Ignition in nonpremixed counterflowing hydrogen versus heated air: Computational study with detailed chemistry, Combust Flame 104(1-2) 157-175 (Jan 1996), 7A1305
Flame-controlling continuation method for generating S-curve responses with detailed chemistry, Combust Flame 104(3) 328-342 (Feb 1996), 8A1248
Heating and ignition of combustible dust layers on a hot surface: Influence of layer shrinkage, Combust Flame 105(4) 471-485 (Jun 1996), 11A1271
Numerical simulation of laser ignition of an isolated carbon particle in quiescent environment, Combust Flame 105(4) 591-599 (Jun 1996), 11A1272
Relationships between bifurcation and numerical analyses for ignition of hydrogen-air diffusion flames, Combust Flame 105(4) 569-590 (Jun 1996), 11A1273
Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, Combust Flame 106(1-2) 81-88 (Jul 1996), 12A1300

416D. Laminar flame propagation

Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, Combust Flame 102(4) 427-437 (Sep 1995), 1A1314
Coupling of conical wrinkled laminar flames with gravity, Combust Flame 103(1-2) 27-40 (Oct 1995), 1A1315
Heat release and induced strain in premixed flames, Combust Flame 103(1-2) 1-10 (Oct 1995), 1A1316
Modeling and analysis of a spray of droplets' combustion problem, Z Angew Math Mech 75(8) 583-597 (1995), 1A1317
Non-uniqueness for flame propagation when the Lewis number is less than 1, European J Appl Math 6(4) 287-306 (Aug 1995), 1A1318
Premixed and diffusion flames in a centrifuge, Combust Flame 102(4) 501-511 (Sep 1995), 1A1319
Structural response of counterflow diffusion flames to strain rate variations, Combust Flame 102(4) 481-492 (Sep 1995), 1A1320
Asymptotic and numerical analysis of a premixed laminar nitrogen dioxide-hydrogen flame, Combust Sci Tech 105(4-6) 165-182 (Apr 1995), 2A1181
Structure of H_2-NO_2-argon and H_2-O_2-argon laminar premixed flames, Combust Sci Tech 105(4-6) 195-209 (Apr 1995), 2A1182
Analytical solution of the equation describing the outward propagating wrinkled flame, Combust Sci Tech 106(1-3) 203-206 (May 1995), 3T1206
Bimodal particle dispersion in the nonadiabatic heterogeneous SHS flame propagation, Combust Sci Tech 106(1-3) 193-201 (May 1995), 3T1207
Chemical structures of fuel-rich, premixed, laminar flames of 1,1-$C_2H_4Cl_2$/CH_4/O_2/Ar, Combust Sci Tech 106(1-3) 69-82 (May 1995), 3A1208
Counterflow diffusion flames with unsteady strain rates, Combust Sci Tech 106(4-6) 345-361 (Jun 1995), 3A1209
Instantaneous velocity measurements in laminar and turbulent premixed flames using on-line PIV, Combust Sci Tech 106(4-6) 239-265 (Jun 1995), 3A1210
Non-Huygens flame configuration in stagnation flow, Combust Flame 103(3) 247-251 (Nov 1995), 3A1211
Flame propagation and extinction in spatially-periodic longitudinal velocity fields, Combust Sci Tech 107(1-3) 155-164 (Jul 1995), 5A1215
Numerical and experimental study of the no-emission of ceramic foam surface burners, Combust Sci Tech 108(1-3) 193-203 (Sep 1995), 5A1216
Numerical study of a premixed flame on a slit burner, Combust Sci Tech 108(1-3) 121-132 (Sep 1995), 5A1258
Effects of shear and strain on temporal evolution of laminar diffusion flames, AIAA J 34(1) 89-95 (Jan 1996), 6A1195
Burning velocities, Markstein lengths, and flame quenching for spherical methane-air flames: A computational study, Combust Flame 104(1-2) 176-198 (Jan 1996), 7A1306
Forced forward smolder combustion, Combust Flame 104(1-2) 1-26 (Jan 1996), 7A1307
Simplified theory for de Ris flame over thick and thin fuel beds, Combust Flame 104(1-2) 66-80 (Jan 1996), 7A1308
Elementary discussion of forward smoldering, Combust Flame 104(3) 300-310 (Feb 1996), 8A1249
New heterogeneous burning velocity formula for the propagation of a laminar flame front through a polydisperse spray of droplets, Combust Flame 104(3) 358-368 (Feb 1996), 8A1250
Premixed combustion in laminar Couette flow, Combust Flame 104(3) 241-259 (Feb 1996), 8A1251
Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation (Springer-Verlag, New York, 1996) 9R24
"Tulip flame" phenomenon, Combust Flame 105(1-2) 225-238 (Apr 1996), 9A1308
Analysis of multiple flames in counterflow spray combustion, Combust Flame 104(4) 431-459 (Mar 1996), 9A1309
Diffusion-flame burning of fuel-vapor pockets in oxidizer for general Lewis numbers, Combust Flame 105(1-2) 1-14 (Apr 1996), 9A1310
Inhibition of premixed methane-air flames by fluoromethanes, Combust Flame 105(1-2) 15-27 (Apr 1996), 9A1311
Observation of near-planar spinning premixed flames in a sudden expansion tube, Combust Flame 105(1-2) 180-188 (Apr 1996), 9A1312
Quenching distance of laminar flame in aluminum dust clouds, Combust Flame 105(1-2) 147-160 (Apr 1996), 9A1313
Stretch-affected flame propagation in vortical flows, Combust Flame 104(4) 460-468 (Mar 1996), 9A1314
Diagnostics and modeling of strained fuel-rich acetylene-oxygen flames used for diamond deposition, Combust Flame 105(3) 321-331 (May 1996), 10A1359
Experimental study of extinction of nonadiabatic counterflow premixed flames, Combust Flame 105(3) 308-320 (May 1996), 10A1360
Influences of flame-vortex interactions on formation of oxides of nitrogen in curved methane-air diffusion flamelets, Combust Flame 105(3) 373-380 (May 1996), 10A1361
Formation of turbulent eddies in jet diffusion flames, JSME Int J Ser B 39(2) 433-439 (May 1996), 11T1274
Global characteristics and structures of hydrogen-air counterflow diffusion flames, J Propulsion Power 12(3) 534-542 (Jun 1996), 11A1275
Forward smolder of polyurethane foam in a forced air flow, Combust Flame 106(1-2) 89-109 (Jul 1996), 12A1301
Premixed flame propagation in a high-intensity, large-scale vortical flow, Combust Flame 106(1-2) 29-40 (Jul 1996), 12A1302
Scalar structure of nonequidiffusive premixed flames in counterflow, Combust Flame 106(1-2) 168-183 (Jul 1996), 12A1303

416E. Turbulent flame propagation, flammability

Inner cutoff scale of flame surface wrinkling in turbulent premixed flames, Combust Flame 103(1-2) 107-114 (Oct 1995), 1A1321
Premixed flame effects on turbulence and pressure-related terms, Combust Flame 102(4) 447-461 (Sep 1995), 1A1322
Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, Combust Sci Tech 105(4-6) 357-375 (Apr 1995), 2A1183
Lifted flames and the effects of inhibitors, Combust Sci Tech 105(4-6) 345-355 (Apr 1995), 2A1184
Stability in a model of turbulent combustion, Appl Math letters 8(1) 83-86 (Jan 1995), 2A1185
Instantaneous velocity measurements in laminar and turbulent premixed flames using on-line PIV, Combust Sci Tech 106(4-6) 239-265 (Jun 1995), 3A1210
Microscales of turbulent combustion, Prog Energy Combust Sci 21(2) 153-171 (1995), 3A1212
Sensitivity study of turbulent reacting flow modeling in gas turbine combustors, AIAA J 33(10) 1857-1864 (Oct 1995), 3A1213
Assumed and evolution probability density functions in supersonic turbulent combustion calculations, J Propulsion Power 11(6) 1132-1138 (Dec 1995), 4A1251
Dynamical behavior of a premixed turbulent open V-flame, J Fluid Mech 300 87-115 (Oct 1995), 4A1260
Errors due to correlations in evaluating mean density from Favre-averaged enthalpy and composition in turbulent reactive flow, Combust Flame 103(4) 343-347 (Dec 1995), 5A1217
Flame curvature statistics in axisymmetric turbulent jet flames, Combust Sci Tech 108(1-3) 31-46 (Sep 1995), 5A1218
Flame propagation along a fine vortex tube, Combust Sci Tech 108(1-3) 67-80 (Sep 1995), 5A1219
Method for contour-aligned smoothing of joint 2D scalar images in turbulent flames, Combust Sci Tech 107(1-3) 195-203 (Jul 1995), 5T1220
Stretched laminar flamelet modeling of turbulent chloromethane-air nonpremixed jet flames, Combust Flame 103(4) 328-338 (Dec 1995), 5A1221
Study of turbulent compustion and its modeling using a diffusion reaction equation model, Int J Eng Sci 34(1) 47-58 (Jan 1996), 5A1222
Eddy break-up coefficient, Combust Flame 104(1-2) 208-212 (Jan 1996), 7A1309
Turbulent premixed flames in closed combustion chambers, JSME Int J Ser B 39(1) 171-175 (Feb 1996), 7A1310
Assessment of turbulent combustion submodels using the linear eddy model, Combust Flame 104(3) 343-357 (Feb 1996), 8A1252
Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation (Springer-Verlag, New York, 1996) 9R24
Computations of steady-state and transient premixed turbulent flames using pdf methods, Combust Flame 104(4) 481-504 (Mar 1996), 9A1315
Scaling in buoyancy-driven turbulent premixed flames, Combust Flame 105(1-2) 28-34 (Apr 1996), 9A1316
Simulation of turbulent burning velocities using aqueous autocatalytic reactions in a near-homogeneous turbulence, Combust Flame 105(1-2) 54-67 (Apr 1996), 9A1317
Experimental investigation of the turbulence structure of medium-scale methanol pool fires, Combust Flame 105(3) 245-266 (May 1996), 10A1362
Modeling of local extinction in turbulent flames, J Eng Gas Turbines Power 118(2) 292-307 (Apr 1996), 10A1399
Applications of direct numerical simulation to premixed turbulent combustion, Prog Energy Combust Sci 21(6) 531-576 (1995), 11A1276
Unsteady strain rate and curvature effects in turbulent premixed methane: Air flames, Combust Flame 106(1-2) 184-202 (Jul 1996), 12A1304

416F. Flame stability and stabilization

Interplay of transport, kinetics, and thermal interactions in the stability of premixed hydrogen-air flames near surfaces, Combust Flame 103(1-2) 59-75 (Oct 1995), 1A1323
Numerical analysis of two-ring flame stabilizer flows in aircraft afterburners, Numer Heat Transfer A 28(1) 85-101 (Jul 1995), 1A1324
Stability in a model of turbulent combustion, Appl Math letters 8(1) 83-86 (Jan 1995), 2A1185
Chemical structure of atmospheric pressure premixed n-decane and kerosene flames, Combust Sci Tech 106(4-6) 327-344 (Jun 1995), 3A1214
Large eddy simulation of reacting flows applied to bluff body stabilized flames, AIAA J 33(12) 2339-2347 (Dec 1995), 4A1080
Structure of a swirl-stabilized spray flame relevant to gas turbine and furnaces, J Propulsion Power 11(6) 1110-1117 (Dec 1995), 4A1252
Numerical analysis on instability of cylindrical flames, Combust Sci Tech 107(1-3) 181-193 (Jul 1995), 5A1223
Stability of hypersonic reacting stagnation flow of a detonatable gas mixture by dynamical systems analysis, Combust Flame 103(4) 311-327 (Dec 1995), 5A1224
Liquid Rocket Engine Combustice Instability (AIAA, MD, 1995) 6N33
Burner wake stabilized gas jet flames in cross-flow, Combust Sci Tech 109(1-6) 327-346 (Nov 1995), 7A1311
Solutions for a class of equations occurring in research of arc column instability (Chinese), J Dalian Univ Tech 35(5) 628-632 (Oct 1995), 8A847
Instability of buoyant diffusion flames, Exp Fluids 20(4) 241-248 (Feb 1996), 8A1253
Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, Combust Flame 105(3) 332-340 (May 1996), 10A1363
Stability of the bunsen flame profiles in the Kuramoto-Sivashinsky equation, SIAM J Math Anal 27(3) 765-781 (May 1996), 10A1364
Study of flame stability in a step swirl combustor, J Eng Gas Turbines Power 118(2) 308-315 (Apr 1996), 10A1365
Linear stability analysis of reaction fronts in liquids, Quart Appl Math 54(2) 225-247 (Jun 1996), 11A980
Examination of chemical approaches to stabilizing composite-propellant combustion, J Propulsion Power 12(3) 554-563 (Jun 1996), 11A1277
Near-limit oscillations of spherical diffusion flames, AIAA J 34(7) 1403-1409 (Jul 1996), 12A1305

416G. Combustion products, exhaust emissions

Geometric effects on mass transfer during thermogravimetric analysis: Application to reactivity of diesel soot, Combust Flame 102(4) 471-480 (Sep 1995), 1A1325
Removal of NO by low-temperature O_3 oxidation, Combust Flame 102(4) 512-518 (Sep 1995), 1A1326
Simplified modeling of NO formation in technical combustion processes, J Energy Resources Tech 117(2) 161-164 (Jun 1995), 1A1327
Effect of SO_2 and NO on the conversion of fuel nitrogen to N_2O and NO in single particle combustion of coal, Combust Sci Tech 106(1-3) 153-166 (May 1995), 3A1215
Modeling of soot formation and oxidation in turbulent diffusion flames, J Thermophys Heat Transfer 9(4) 644-652 (Dec 1995), 3A1216
Mathematical modeling of a rotary hearth coke calciner, Model Ident Control 16(4) 193-212 (Oct 1995), 4A384
Global equivalence ratio concept and the formation mechanisms of carbon monoxide in enclosure fires, Prog Energy Combust Sci 21(3) 197-237 (1995), 4A1253
Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, J Propulsion Power 11(6) 1154-1161 (Dec 1995), 4A1254
Development of the 2400G stationary gas engines, J Eng Gas Turbines Power 117(4) 810-819 (Oct 1995), 5A1225
Emissions of CO and NO from a two stage porous media burner, Combust Sci Tech 107(1-3) 81-91 (Jul 1995), 5A1226
Flow distribution and pressure drop in diffuser-monolith flows, J Fluids Eng 117(3) 362-368 (Sep 1995), 5A1227
Micro-structures of premixed hydrocarbon flames: Methane, Combust Sci Tech 107(1-3) 1-19 (Jul 1995), 5A1228
Nitric oxide emission from pulverized coal blend flames, J Energy Resources Tech 117(3) 228-233 (Sep 1995), 5A1229
Hydrodynamic suppression of soot emissions in laminar diffusion flames, J Propulsion Power 12(1) 10-17 (Feb 1995), 6A1196
NO_x emissions and thermal efficiencies of small scale biomass-fueled combustion plant with reference to process industries in a developing country, Int J Energy Res 20(1) 41-55 (Jan 1996), 6A1197
Temperature and soot concentration in a high soot density flame, Int J Heat Mass Transfer 39(6) 1235-1241 (Apr 1996), 7A1256

Analytical scaling model for hydrocarbon emissions from fuel absorption in oil layers in spark ignition engines, Combust Sci Tech **109**(1-6) 205-226 (Nov 1995), 7A1312

Biarone formation during pyrolysis of a mixture of anthracene and naphthalene, Combust Sci Tech **109**(1-6) 273-285 (Nov 1995), 7A1313

Characterization of carbon particulates in diffusion flames, JSME Int J Ser B **39**(1) 211-215 (Feb 1996), 7T1314

$CO+_2$ chemiluminescence in premixed flames, Combust Sci Tech **109**(1-6) 183-203 (Nov 1995), 7A1315

Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, Heavy Vehicle Syst **2**(3-4) 308-322 (1995), 7T1316

Experimental study of ignition in nonpremixed counterflowing hydrogen versus heated air, Combust Sci Tech **109**(1-6) 373-393 (Nov 1995), 7A1317

Influence of cerium oxide on the formation and oxidation of soot, Combust Flame **104**(1-2) 199-207 (Jan 1996), 7A1318

NO and N_2O formation during char combustion: Is it HCN or surface attached nitrogen, Combust Flame **104**(1-2) 213-217 (Jan 1996), 7T1319

Reactive dimerization: A new PAH growth mechanism in flames, Combust Sci Tech **109**(1-6) 165-181 (Nov 1995), 7A1320

Soot formation during pyrolysis and combustion of hydrocarbons, Combust Sci Tech **109**(1-6) 399-400 (Nov 1995), 7T1321

Soot formation during pyrolysis of benzene-xylene mixtures, Combust Sci Tech **109**(1-6) 401-404 (Nov 1995), 7T1322

Soot formation in shock-tube pyrolysis of toluene, toluene-methanol, toluene-ethanol, and toluene-oxygen mixtures, Combust Flame **104**(1-2) 51-65 (Jan 1996), 7A1323

Study of radiant tube flame structure and NO_x emissions, Combust Sci Tech **109**(1-6) 255-271 (Nov 1995), 7A1324

Understanding NO_x formation in nonpremixed flames: Experiments and modeling, Prog Energy Combust Sci **21**(5) 361-385 (1995), 7A1325

Research reviews on flameholders and combustion of an afterburner and a Ramjet engine, JSME Int J Ser B **39**(1) 1-10 (Feb 1996), 7A1347

Combustion-generated NO_x and coke in heavy-residual fuel oil combustion, Combust Sci Tech **108**(4-6) 345-361 (Oct 1995), 8A1254

Effects of a ring crevice on hydrocarbon emission from spark ignition engines, Combust Sci Tech **108**(4-6) 279-295 (Oct 1995), 8A1255

Hazardous air emissions potential from a wood-fired furnace, Combust Sci Tech **108**(4-6) 297-309 (Oct 1995), 8A1256

Mechanisms governing the formation and destruction of NO_x and other nitrogenous species in low NO_x coal combustion systems, Combust Sci Tech **108**(4-6) 323-344 (Oct 1995), 8A1257

NO_x formation in large-scale oxy-fuel flames, Combust Sci Tech **108**(4-6) 311-322 (Oct 1995), 8A1258

OH imaging in a lean burning high-pressure combustor, AIAA J **34**(3) 622-624 (Mar 1996), 8T1259

Relationships among nitric oxide, temperature, and mixture fraction in hydrogen jet flames, Combust Flame **104**(3) 288-299 (Feb 1996), 8A1260

Soot morphology and optical properties in nonpremixed turbulent flame environments, Combust Sci Tech **108**(4-6) 207-229 (Oct 1995), 8A1261

Soot nucleation and growth in acetylene air laminar coflowing jet diffusion flames, Combust Flame **104**(3) 369-375 (Feb 1996), 8T1262

Modeling NO_x release from a single coal particle - I: Formation of NO from volatile nitrogen, Combust Flame **105**(1-2) 92-103 (Apr 1996), 9A1318

Soot formation in hydrocarbon-air laminar jet diffusion flames, Combust Flame **105**(1-2) 132-146 (Apr 1996), 9A1319

Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, J Dyn Syst Meas Control **118**(1) 106-112 (Mar 1996), 9A1340

Thermal Engineering for Global Environmental Protection (Begell House, New York, 1996) 10N42

Amounts of NO_x and N_2O formed in a fluidized bed combustor during the burning of coal volatiles and also of char, Combust Flame **105**(3) 341-357 (May 1996), 10A1366

NO_x emission and major species concentrations in partially premixed laminar methane-air co-flow jet flames, Combust Flame **105**(3) 414-427 (May 1996), 10A1367

Review of measurements of heat flux density applicable to the field of combustion, Exp Thermal Fluid Sci **12**(4) 452-460 (May 1996), 10A1382

Al_2O_3 collection and sizing from solid rocket motor plumes, J Propulsion Power **12**(3) 598-604 (Jun 1996), 11A1278

Barriers to energy in vehicle design, Int J Vehicle Des **17**(3) 240-246 (1996), 11A1279

Design of automobile exhaust system using top-down approach design methodology, Int J Vehicle Des **17**(3) 276-294 (1996), 11A1280

Effect of allene addition on the structure of a rich $C_2H_2/O_2/Ar$ flame, Combust Flame **105**(4) 451-461 (Jun 1996), 11A1281

Minimization of NO during staged combustion of CH_3NH_2, Combust Flame **105**(4) 557-568 (Jun 1996), 11A1282

Semiempirical correlations of NO_x emissions from utility combustion turbines with inert injection, J Propulsion Power **12**(3) 527-533 (Jun 1996), 11A1283

Soot suppression by ferrocene in laminar ethylene-air nonpremixed flames, Combust Flame **105**(4) 528-540 (Jun 1996), 11A1284

Optical radiations from interaction of effluent gases with the low-orbital atmosphere, J Spacecraft Rockets **33**(3) 393-403 (Jun 1996), 12A1306

Investigation of lean combustion in a natural gas-fueled spark-ignited engine, J Energy Resources Tech **118**(2) 145-151 (Jun 1996), 12A1328

Investigation of the lean operational limits of gas-fueled spark ignition engines, J Energy Resources Tech **118**(2) 159-163 (Jun 1996), 12A1329

416H. Interaction of flames and surfaces

Head-on quenching of a premixed flame by a cold wall, Combust Flame **103**(4) 296-310 (Dec 1995), 5A1230

416I. Kinetics and mechanisms

Bifurcation for quasi-variational inequalities of reaction-diffusion type, Stability Appl Anal Continuous Media **3**(2) 111-127 (Jun 1993), 2T1186

Direct comparison of pair-exchange and IEM models in premixed combustion, Combust Flame **103**(3) 194-206 (Nov 1995), 3A1217

Detailed kinetic modeling of n-heptane combustion, Combust Sci Tech **107**(4-6) 317-353 (Aug 1995), 5A1231

Detonation wave structure of gases at elevated initial pressures, Combust Sci Tech **107**(4-6) 355-385 (Aug 1995), 5A1232

Kinetic model for formation of aromatics in the high temperature chlorination of methane, Combust Sci Tech **107**(4-6) 223-260 (Aug 1995), 5A1233

Macrokinetics of SHS infiltration, Combust Sci Tech **107**(1-3) 21-29 (Jul 1995), 5A1234

Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, Combust Sci Tech **107**(4-6) 301-316 (Aug 1995), 5A1245

Kinetics of the $N_2 + O \rightarrow NO + N$ reaction under thermodynamic nonequilibrium, J Thermophys Heat Transfer **10**(1) 148-154 (Mar 1996), 6A1198

Heat release mechanisms in inhibited laminar counterflow flames, Combust Flame **104**(1-2) 27-40 (Jan 1996), 7A1326

Convexity requirement in the geometric-probabilistic approach to heterogeneous chemical kinetics, J Thermal Anal **46**(1) 49-54 (Jan 1996), 8A1263

Detailed kinetic model of the high-temperature pyrolysis of tetrachloroethene, Combust Flame **104**(3) 260-271 (Feb 1996), 8A1264

Kinetics and mechanism of processes in the system $FeSO_4 \times 7H_2O$-MnO_2, J Thermal Anal **46**(1) 285-290 (Jan 1996), 8A1285

Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, Combust Flame **105**(1-2) 68-79 (Apr 1996), 9A1320

Detailed oxidation kinetics and flame inhibition effects of chloromethane, Combust Flame **105**(3) 291-307 (May 1996), 10A1368

Temperature dependence of H + OH recombination in phosphorus oxide containing post-combustion gases, Combust Flame **105**(3) 407-413 (May 1996), 10A1369

High-temperature pyrolysis of hexachloropropene: Kinetic analysis of pathways to formation of perchloro-arylbenzenes, Combust Flame **105**(4) 486-498 (Jun 1996), 11A1285

Thermochemical and chemical kinetic data for fluorinated hydrocarbons, Prog Energy Combust Sci **21**(6) 453-529 (1995), 11A1286

Flash pyrolysis of hydroxyl-terminated polybutadiene - II: Implications of the kinetics to combustion of organic polymers, Combust Flame **106**(1-2) 144-154 (Jul 1996), 12A1307

Methanol and hydrogen oxidation kinetics in water at supercritical states, Combust Flame **106**(1-2) 110-130 (Jul 1996), 12A1308

Shock tube and modeling study of ketene oxidation, Combust Flame **106**(1-2) 155-167 (Jul 1996), 12A1309

416J. Unsteady combustion and combustion acoustics

Structures induced by periodic acoustic excitation of a diffusion flame, Combust Flame **103**(3) 151-160 (Nov 1995), 3A1218

Role of slip in the generation of acoustic instabilities in gas turbines, J Propulsion Power **12**(1) 34-40 (Feb 1995), 6A1199

Mixing by resonant acoustic driving in a closed chamber, J Propulsion Power **12**(2) 366-370 (Apr 1996), 8A1266

Oscillatory fuel droplet vaporization: Driving mechanism for combustion instability, J Propulsion Power **12**(2) 358-365 (Apr 1996), 8A1267

Transcritical liquid oxygen droplet vaporization: Effect on rocket combustion instability, J Propulsion Power **12**(2) 349-357 (Apr 1996), 8A1268

Response of counterflow premixed flames to oscillating strain rates, Combust Flame **105**(3) 358-372 (May 1996), 10A1370

Theory of unsteady combustion of solids: Investigation of quasisteady assumption, J Propulsion Power **12**(3) 564-573 (Jun 1996), 11A1287

416K. Supersonic combustion

Ignition simulation of methane-hydrogen mixtures in a supersonic mixing layer, Combust Flame **102**(4) 462-470 (Sep 1995), 1A1328

Computational study of large-disturbance oscillations in unsteady supersonic combustion around projectiles, AIAA J **33**(10) 1828-1835 (Oct 1995), 3A1219

Two-dimensional weak shock-vortex interaction in a mixing zone, AIAA J **33**(10) 1797-1802 (Oct 1995), 3A1220

Supersonic flow mixing and combustion using ramp nozzle, J Propulsion Power **11**(6) 1147-1153 (Dec 1995), 4A1255

Mechanisms of detonation transmission in layered H_2-O_2 mixtures, Shock Waves **5**(4) 225-238 (Dec 1995), 5T214

Nonintrusive stabilization of a conical detonation wave for supersonic combustion, Combust Flame **103**(4) 281-295 (Dec 1995), 5A1235

Fluid phenomena in scramjet combustion systems, Annu Rev Fluid Mech **28** 323-360 (1996), 6A1212

Fully implicit time accurate method for hypersonic combustion: Application to shock-induced combustion instability, Shock Waves **5**(5) 293-303 (Feb 1996), 7A1081

Planar OH density and apparent temperature measurements in a supersonic combusting flow, AIAA J **34**(3) 463-469 (Mar 1996), 8A1063

Asymptotic analysis on the extinction of diffusion flames in supersonic stagnation-point flow, JSME Int J Ser B **39**(2) 440-445 (May 1996), 11A1288

Simulation of shock-induced combustion past blunt projectiles using shock-fitting technique, J Propulsion Power **12**(3) 518-526 (Jun 1996), 11A1289

Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, Combust Flame **106**(1-2) 62-68 (Jul 1996), 12A1310

416L. Heterogeneous and multiphase combustion

Influence of porosity and two-phase flow on diffusional-thermal instability of a deflagrating energetic material, Combust Sci Tech **106**(1-3) 41-68 (May 1995), 3A1221

Study on the combustibility of torrefied wood oil-water mixture droplets, Int J Energy Res **20**(3) 215-236 (Mar 1996), 8A1269

Theory of shallow annoulder waves, IMA J Appl Math **56**(1) 87-102 (1996), 10A1371

416M. Flame radiation

Flamelet structure of radiating CH_4: Air Flames, Combust Flame **102**(4) 438-446 (Sep 1995), 1A1329

Theoretical investigation of transient droplet combustion by considering flame radiation, Int J Heat Mass Transfer **38**(14) 2611-2621 (Sep 1995), 1A1330

Performance evaluation of porous radiant gas burners, Exp Heat Transfer **8**(1) 73-95 (Mar 1995), 1A1372

Modeling of a Lagrangian flamelet with radiation interaction, Combust Sci Tech **106**(4-6) 363-382 (Jun 1995), 3A1235

Influence of heterogeneous kinetics and thermal radiation on the oxidation of graphite particles, Combust Flame **104**(1-2) 81-94 (Jan 1996), 7A1327

416N. Furnaces

Parametric study of a carbon black oil furnace, Combust Flame **103**(1-2) 76-90 (Oct 1995), 1A1331

Mathematical modeling of a rotary hearth coke calciner, Model Ident Control **16**(4) 193-212 (Oct 1995), 4A384

Modeling direct-fired annealing furnaces for transient operations, Appl Math Model **20**(1) 34-40 (Jan 1996), 5A1236

Simulation studies of control of oil-refining heating furnaces (Chinese), J Dalian Univ Tech **36**(1) 68-71 (Jan 1996), 8A1270

Comparison of several discrete arithmetic schemes for simulating a constrained jet and lab-scale tangential fired furnace, Comput Methods Appl Mech Eng **130**(3-4) 279-288 (Apr 1996), 12A1311

416O. Combustors and afterburners

Characterizing fuels for atmospheric fluidized bed combustion, Combust Flame **103**(1-2) 41-58 (Oct 1995), 1A1332

Modeling dump combustor flows with and without swirl at the inlet using Reynolds stress models, Int J Numer Methods Heat & Fluid Flow **5**(7) 577-588 (Sep 1995), 1A1333

Numerical analysis of the flowfields in a staged gas turbine combustor, J Propulsion Power **11**(5) 894-898 (Oct 1995), 2A1041

Analytical-empirical model to predict heat transfer coefficients in circulating fluidized bed combustors, Heat and Mass Transfer Warme **30**(6) 377-383 (Sep 1995), 3A1259

Experimental investigation on the two-phase theory in a fluidized-bed combustor, Int J Energy Res **19**(8) 699-719 (Nov 1995), 3A1261

Effect of dilution air on the scalar flowfield at combustor sector exit, J Propulsion Power **11**(6) 1162-1169 (Dec 1995), 4A1256

Combustion enhancement using induced swirl, Exp Fluids **20**(1) 59-60 (Nov 1995), 5T1237

Multiburner combustors: A prospective trend of the development of aircraft engines, J Machinery Manuf Reliab **2** 1-8 (1995), 5T1238

Numerical simulation of steady-state dump combustor operation with auxiliary fuel injection, Combust Sci Tech **107**(1-3) 31-58 (Jul 1995), 5A1239

Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology combustor, J Eng Gas Turbines Power **117**(3) 441-452 (Jul 1995), 5A1240

Calculation of two-phase flow in gas turbine combustors, J Eng Gas Turbines Power **117**(4) 695-703 (Oct 1995), 5A1268

Detailed measurements on a modern combustor dump diffuser system, J Eng Gas Turbines Power **117**(4) 678-685 (Oct 1995), 5A1273

Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 1: Mean and turbulent flowfield, J Fluids Eng **117**(3) 450-458 (Sep 1995), 5A1277

Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 2: Higher order moments and flow visualization, J Fluids Eng **117**(3) 459-467 (Sep 1995), 5A1278

Flow field and performance characteristics of combustor diffusers: A basic study, J Eng Gas Turbines Power **117**(4) 686-694 (Oct 1995), 5A1279

Medway: A high-efficiency combined cycle power plant design, J Eng Gas Turbines Power **117**(4) 713-723 (Oct 1995), 5A1283

Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, J Eng Gas Turbines Power **117**(4) 704-712 (Oct 1995), 5A1286

Combustion oscillations in a twin-stream afterburner, J Sound Vib **188**(4) 545-560 (Dec 1995), 6A1200

Modeling processes in GTE combustors, Russian Aeronaut **38**(1) 43-46 (1995), 6A1201

Simplified gasdynamic model of combustion chamber with heat supply for ideal liquid, Russian Aeronaut **38**(1) 33-38 (1995), 6A1202

Fundamental hydrodynamics related to pressurized fluidized bed combustion, Prog Energy Combust Sci **21**(5) 419-451 (1995), 7A1328

Analytical design methodology for an annular combustor, Int J Comput Fluid Dyn **5**(3-4) 231-243 (1995), 9A1321

Ash vaporization in circulating fluidized bed coal combustion, Aerosol Sci Tech **24**(3) 135-150 (Apr 1996), 9A1322

Influence of fuel composition on emissions of CO, NO, and NO_2 from a gas-fired pulsed combustor, Combust Flame **104**(4) 419-430 (Mar 1996), 9A1323

Measurement of the flow field in a diesel engine combustion chamber after combustion by cross-correlation of high-speed photographs, Exp Fluids **20**(5) 335-345 (Mar 1996), 9A1324

Study of flame stability in a step swirl combustor, J Eng Gas Turbines Power 118(2) 308-315 (Apr 1996), 10A1365
Numerical study of turbulent swirling flow in combustor, Chinese J Aeronaut 9(1) 6-12 (Feb 1996), 10A1372
Fireside slagging, fouling, and high-temperature corrosion of heat-transfer surface due to impurities in steam-raising fuels, Prog Energy Combust Sci 22(1) 29-120 (1996), 11A1290
Jet interaction in liquid-liquid coaxial injectors, J Fluids Eng 118(2) 329-334 (Jun 1996), 12A1133
Modeling of jet-generated recirculating flows in a miniature combustor, Numer Heat Transfer A 29(7) 741-755 (May 1996), 12A1312

416P. Solid fuels

Devolatilization of coal particles in a flat flame: Experimental and modeling study, Combust Flame 103(1-2) 115-128 (Oct 1995), 1A1334
Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, J Fluids Eng 117(2) 289-297 (Jun 1995), 1A1335
Quasi-steady combustion modeling of homogeneous solid propellants, Combust Flame 103(1-2) 11-26 (Oct 1995), 1A1336
Solid rocket motor grain burnback analysis using adaptive grids, J Propulsion Power 11(5) 1006-1011 (Oct 1995), 2A1196
Fluidized bed feeding of carbon black particles, Combust Flame 103(3) 239-242 (Nov 1995), 3A1222
Preliminary investigations of combustion of pulverized coconut shell-based fuel slurries in an oil-fired foundry furnace, Int J Energy Res 19(8) 687-691 (Nov 1995), 3A1223
Thoeretical study of micro and macroscopic processes developing in solid fuels during combustion, Prog Energy Combust Sci 21(2) 109-144 (1995), 3A1224
Fluidized bed combustion of alternative solid fuels: Status, successes, and problems of the technology, Prog Energy Combust Sci 21(3) 239-268 (1995), 4A1257
Acousto-ultrasonic technique applied to filled-polymer damage assessment, J Spacecraft Rockets 32(5) 866-869 (Oct 1995), 5A1241
Mathematical model of the processes of ignition, combustion, and gasification of the pulverized coal fuel in the electric arc devices, Thermophys and Aeromech 2(2) 151-164 (1995), 5A1253
Coal: Energy for the future, Prog Energy Combust Sci 21(4) 269-360 (1995), 6T1203
Effect of fluorinated graphite on combustion of boron and boron-based fuel-rich propellants, J Propulsion Power 12(1) 26-33 (Feb 1995), 6A1204
Dynamic characteristics of a small fixed-bed gasifier stove, Proc Inst Mech Eng A 210(A1) 35-45 (1996), 8A1271
Magnetic flow meter measurement of solid propellant pressure-coupled responses using an acoustic analysis, J Propulsion Power 12(2) 436-438 (Apr 1996), 8T1272
Plateau region of composite propellants, J Propulsion Power 12(2) 434-436 (Apr 1996), 8A1273
Modeling of normal and erosive burning rate of a hot double-base homogeneous propellant, Combust Flame 105(1-2) 202-210 (Apr 1996), 9A1325
Acoustic-mean flow interaction and vortex shedding in solid rocket motors, Int J Numer Methods Fluids 22(6) 449-465 (Mar 1996), 9A1342
Effect of solid CaO on the production of NO_x and N_2O in fluidized bed combustors: Studies using pyridine as a prototypical nitrogeneous fuel, Combust Flame 105(4) 511-527 (Jun 1996), 11A1291
Effects of Kevlar fibers on ammonium perchlorate propellant combustion, J Propulsion Power 12(3) 616-619 (Jun 1996), 11A1292
Comparative analysis of plasma and fire technologies of pulverized coal ignition, combustion and gasification using a mathematical model of a chemically nonequilibrium system, Thermophys and Aeromech 2(3) 245-250 (1995), 12A1313
Flash pyrolysis of hydroxyl-terminated polybutadiene - I: Analysis and implications of the gaseous products, Combust Flame 106(1-2) 131-143 (Jul 1996), 12A1314
Fragmentation of highly porous char particles burning in regime I, Combust Flame 106(1-2) 203-206 (Jul 1996), 12T1315

416Q. Liquid fuels

Recent Advances in Spray Combustion, Vol I and II (AIAA, MD, 1995) 3N46
Combustion of Han-based liquid propellant sprays at 28 to 38 MPA, Combust Sci Tech 106(1-3) 1-17 (May 1995), 3A1225
Detailed measurements in heavy oil and oil-water emulsion flames, Combust Sci Tech 106(4-6) 383-391 (Jun 1995), 3A1226
Numerical investigation of multiple flame configurations in convective droplet gasification, Combust Flame 103(3) 221-238 (Nov 1995), 3A1227
Structure of a swirl-stabilized combusting spray, J Propulsion Power 11(6) 1093-1102 (Dec 1995), 4A1258
Transpiration cooling effects on nozzle heat transfer and performance, J Spacecraft Rockets 32(6) 981-985 (Dec 1995), 5A947
Coupled thermodynamic-fluid-dynamic solution for a liquid-hydrogen tank, J Spacecraft Rockets 32(5) 918-921 (Oct 1995), 5T1242
Development of an aviation fuel thermal stability test unit, J Eng Gas Turbines Power 117(3) 468-474 (Jul 1995), 5A1243
Thermal stability and heat transfer characteristics of methane and natural gas fuels, J Eng Gas Turbines Power 117(3) 462-467 (Jul 1995), 5A1244
Evaporation and combustion of a slowly moving liquid fuel droplet: Higher-order theory, J Fluid Mech 307 135-165 (Jan 1996), 7A1093
Atmospheric chemistry of alternate fuels and reformulated gasoline components, Prog Energy Combust Sci 21(5) 387-417 (1995), 7A1329
Chemical structures of fuel-rich flames of trans-$C_2H_2Cl_2$-CH_4-Ar-O_2 mixtures, Combust Flame 104(1-2) 41-50 (Jan 1996), 7A1330
Effect of liquid mass transport on the combustion and extinction of bicomponent droplets of methanol and water, Combust Flame 105(1-2) 104-122 (Apr 1996), 9A1326
Jet fuel deposition and oxidation: Dilution, materials, oxygen, and temperature effects, J Eng Gas Turbines Power 118(2) 271-277 (Apr 1996), 10A1373
Surface effects on deposits from jet fuels, J Eng Gas Turbines Power 118(2) 278-285 (Apr 1996), 10A1374
Surface fouling in aviation fuels: An isothermal chemical study, J Eng Gas Turbines Power 118(2) 286-291 (Apr 1996), 10A1375
Mechanics and Combustion of Droplets and Sprays (Begell House, New York, 1995) 11R44
New decomposition catalysts and characterization techniques for rocket-grade hydrogen peroxide, J Propulsion Power 12(3) 574-579 (Jun 1996), 11A1293
Supercritical droplet vaporization and combustion studies, Prog Energy Combust Sci 22(1) 1-28 (1996), 11A1294
High-temperature pyrolysis of 1,3-hexachlorobutadiene, Combust Flame 106(1-2) 1-10 (Jul 1996), 12A1316

416R. Oxidation and oxidizers

Wide-range modeling study of n-heptane oxidation, Combust Flame 103(1-2) 91-106 (Oct 1995), 1A1337
Modeling of soot formation and oxidation in turbulent diffusion flames, J Thermophys Heat Transfer 9(4) 644-652 (Dec 1995), 3A1216
Formation of propene oxide from the co-oxidation of propene and acetaldehyde, Combust Sci Tech 106(4-6) 297-305 (Jun 1995), 3A1228
Oxidation of the piston crevice hydrocarbon during the expansion process in a spark ignition engine, Combust Sci Tech 106(4-6) 307-326 (Jun 1995), 3A1229
Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, Combust Sci Tech 107(4-6) 301-316 (Aug 1995), 5A1245
1-pentene oxidation and its interaction with nitric oxide in the low and negative temperature coefficient regions, Combust Flame 104(4) 377-390 (Mar 1996), 9A1327
Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling, Combust Flame 104(4) 505-523 (Mar 1996), 9A1328
Microstructural evolution of char under oxidation induced by uneven heating, Combust Flame 105(1-2) 80-91 (Apr 1996), 9A1329
Effect of burner geometry on the blowout limits of jet diffusion flames in a co-flowing oxidizing stream, J Energy Resources Tech 118(2) 134-139 (Jun 1996), 12A1317

416S. Flame and fire (spread and extinction)

Extinction of premixed flames by pressure drops, Combust Flame 102(4) 493-500 (Sep 1995), 1A1338
Predictions of unsteady flame spread and burning processes by the vorticity-stream function formulation of the compressible Navier-Stokes equations, Int J Numer Methods Heat & Fluid Flow 5(6) 511-529 (Aug 1995), 1A1339
Spectral analysis of a simulated premixed flame surface in 2D, Comput Fluids 24(6) 663-683 (Jul 1995), 1A1340
Fluid dynamics phenomena in the process of self-propagating high-temprature synthesis, Combust Sci Tech 105(4-6) 295-325 (Apr 1995), 2A1187
Flame Structure and Processes (Oxford UP, New York, 1995) 3R30
Critical conditions for upward flame spread and comparison with empirical flammability indices, Combust Sci Tech 106(1-3) 125-136 (May 1995), 3A1230
Decomposition flame of hydrazine in inert porous media, Combust Flame 103(3) 143-150 (Nov 1995), 3A1231
Extended flame zone in the combustion of CH_3Cl, Combust Sci Tech 106(4-6) 229-238 (Jun 1995), 3A1232
Fire plume behavior in temperature-stratified ambients, Combust Sci Tech 106(4-6) 207-228 (Jun 1995), 3A1233
Integro-differential model for the heat transfer in forest fires, J Brazilian Soc Mech Sci 16(4) 393-399 (1994), 3A1234
Modeling of a Lagrangian flamelet with radiation interaction, Combust Sci Tech 106(4-6) 363-382 (Jun 1995), 3A1235
Analysis of ignition and flame spreading in solid rocket motor star slots, J Propulsion Power 11(6) 1371-1373 (Dec 1995), 4A1259
Dynamical behavior of a premixed turbulent open V-flame, J Fluid Mech 300 87-115 (Oct 1995), 4A1260
Unsteady planar diffusion flames: Ignition, travel, burnout, Combust Sci Tech 107(1-3) 93-126 (Jul 1995), 5A1214
Flame propagation and extinction in spatially-periodic longitudinal velocity fields, Combust Sci Tech 107(1-3) 155-164 (Jul 1995), 5A1215
Combustion enhancement using induced swirl, Exp Fluids 20(1) 59-60 (Nov 1995), 5T1237
Breakup zone of a diesel spray - Part 1: Length of zone and volume of unatomized liquid, Atomization and Sprays 5(2) 157-174 (Apr 1995), 5T1246
Inhibiting effect of brominated compounds on oxidation reactions, Combust Flame 103(4) 339-342 (Dec 1995), 5A1247
Numerical analysis of horizontal flame spread over a thin fuel in normal and elevated gravity regime, Combust Sci Tech 107(1-3) 59-80 (Jul 1995), 5A1248
Measurements of vaporized and liquid fuel concentration fields in a burning spray jet of acetone using planar laser induced fluorescence, Exp Fluids 20(1) 1-9 (Nov 1995), 5A1264
Extinction dynamics of partially premixed spray flames, Int J Turbo Jet Engines 12(3) 173-188 (1995), 6A1205
Bifurcation behavior of premixed hydrogen-air mixtures in a continuous stirred tank reactor, Combust Sci Tech 109(1-6) 347-371 (Nov 1995), 7A1304
Experimental and modeling study of fires in ventilated ducts - Part II: PMMA and stratification, Combust Flame 104(1-2) 138-156 (Jan 1996), 7A1331
Effect of ambient pressure on flame spread over thin cellulosic fuel in a quiescent, microgravity environment, J Heat Transfer 118(1) 181-190 (Feb 1996), 8A1274
Three-dimensional modeling for prediction of wall fires with buoyancy-induced flow along a vertical rectangular channel, Combust Flame 105(3) 391-406 (May 1996), 10A1376
Blowout limits of a jet diffusion flame in the presence of small surrounding jet pilot flames, J Energy Resources Tech 118(2) 140-144 (Jun 1996), 12A1318

416T. Combustion, flame, and fire modeling

Simulation of forced-ventilation fires, Numer Heat Transfer A 28(3) 321-338 (Sep 1995), 1A1341
Application of the infinite reaction rate model in the simulation of the dynamics of exothermic mixing layers, Combust Sci Tech 105(4-6) 377-397 (Apr 1995), 2A1188
Flame Structure and Processes (Oxford UP, New York, 1995) 3R30
Mechanisms of 2D smoldering propagation through packed fuel beds, Combust Sci Tech 106(1-3) 103-124 (May 1995), 3A1236
Modeling methane cool flames and ignitions, Combust Sci Tech 106(1-3) 83-102 (May 1995), 3A1237
Coupled thermal response of objects and participating media in fires and large combustion systems, Numer Heat Transfer A 28(5) 531-545 (Nov 1995), 4A1261
Solid-propellant fire in an enclosure fitted with a ceiling safety-vent, Int J Heat Mass Transfer 39(3) 575-601 (Feb 1996), 4A1262
Analytical examination of the combustion of a turbulent jet in an environment of air containing a premixed fuel or a diluent, J Energy Resources Tech 117(3) 234-238 (Sep 1995), 5A1249
Different physical interpretation of flame sheet surface density, Combust Sci Tech 108(1-3) 81-90 (Sep 1995), 5A1250
Effects of axial temperature gradients in the wall of a detonator delay element, Combust Sci Tech 107(4-6) 205-221 (Aug 1995), 5A1251
Elementary reaction modeling of high-temperature benzene combustion, Combust Sci Tech 107(4-6) 261-300 (Aug 1995), 5A1252
Mathematical model of the processes of ignition, combustion, and gasification of the pulverized coal fuel in the electric arc devices, Thermophys and Aeromech 2(2) 151-164 (1995), 5A1253
Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, Combust Sci Tech 108(1-3) 149-173 (Sep 1995), 5A1254
Methods for examining anisotropies in early combustion - Part II: Theoretical developments, Combust Sci Tech 108(1-3) 175-191 (Sep 1995), 5A1255
Modeling of burner-stabilized hydrogen-air flames using mathematically reduced reaction schemes, Combust Sci Tech 107(1-3) 165-180 (Jul 1995), 5A1256
Modeling of confined and unconfined laminar premixed flames on slit and tube burners, Combust Sci Tech 107(4-6) 387-401 (Aug 1995), 5A1257
Numerical study of a premixed flame on a slit burner, Combust Sci Tech 108(1-3) 121-132 (Sep 1995), 5A1258
PDF integrals for self-similar turbulent flows, Combust Sci Tech 107(4-6) 403-410 (Aug 1995), 5T1259
Prediction of burn rate of magnesium-sodium nitrate propellant, Combust Sci Tech 108(1-3) 133-147 (Sep 1995), 5A1260
Radiation-augmented combustion of homogeneous solids, Combust Sci Tech 107(1-3) 127-154 (Jul 1995), 5A1261
Trajectories of burning coal particles in highly swirling reactive flows, Int J Heat Fluid Flow 16(5) 440-450 (Oct 1995), 5A1262
Diffusion flame over a continuous moving fuel plate under microgravity, J Thermophys Heat Transfer 10(1) 97-101 (Mar 1996), 6A1206
Investigation of the heat transfer characteristics of a typical annular combustion chamber of an industrial gas turbine, Heat Transfer Eng 16(4) 17-27 (Dec 1995), 7A1252
Turbulent premixed flames in closed combustion chambers, JSME Int J Ser B 39(1) 171-175 (Feb 1996), 7A1310
Gas-liquid combustion reactor theory (ideally stirred reactor), Combust Sci Tech 109(1-6) 93-120 (Nov 1995), 7A1332
Mechanism of structure formation during combustion synthesis of titanium silicides, Combust Sci Tech 109(1-6) 53-70 (Nov 1995), 7A1333
Modeling effects of soot and turbulence-radiation coupling on radiative transfer in turbulent gaseous combustion, Combust Sci Tech 109(1-6) 121-140 (Nov 1995), 7A1334
Numerical study of premixed flames parametric acoustic instability, Combust Sci Tech 109(1-6) 23-33 (Nov 1995), 7A1335
Rich flammability limits in CH_3OH-CO-diluent mixtures, Combust Sci Tech 109(1-6) 71-91 (Nov 1995), 7A1336
Three-dimensional modeling and parametric study of turbulent burning along the walls of a vertical rectangular channel, Combust Sci Tech 109(1-6) 287-308 (Nov 1995), 7A1337
Turbulent flame motion in a pancake chamber via a Lagrangian, 2D vortex dynamics simulation, Combust Sci Tech 109(1-6) 227-253 (Nov 1995), 7A1338
Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, J Energy Resources Tech 118(1) 65-71 (Mar 1996), 8A1275
Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, J Energy Resources Tech 118(1) 72-76 (Mar 1996), 8A1276
Computerized analysis of low-NO_x coal-fired utility boilers, Combust Sci Tech 108(4-6) 383-401 (Oct 1995), 8A1277
Detailed kinetic study of ammonia oxidation, Combust Sci Tech 108(4-6) 231-254 (Oct 1995), 8A1278
Mathematical modeling of NO formation in a power-station boiler, Combust Sci Tech 108(4-6) 363-382 (Oct 1995), 8A1279
Computational investigation on combustion of a carbon packed bed in stagnation flow field (Chinese), J Dalian Univ Tech 35(3) 362-366 (Jun 1995), 8A1319
Attachment of the flame sheet to the carbon surface in a carbon combustion model: On the surface constraining conditions, Combust Flame 105(1-2) 35-42 (Apr 1996), 9A1330
Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, Combust Flame 104(4) 469-480 (Mar 1996), 9A1331
Effects of time scale ratio in turbulent diffusion flames modeling, European J Mech Eng 41(1) 3-10 (1996), 10A1377

Thermal model for the rotary kiln including heat transfer within the bed, Int J Heat Mass Transfer 39(10) 2131-2147 (Jul 1996), 10A1378
Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, Int J Heat Mass Transfer 39(13) 2641-2651 (Sep 1996), 11A1295
Comparative analysis of plasma and fire technologies of pulverized coal ignition, combustion and gasification using a mathematical model of a chemically nonequilibrium system, Thermophys and Aeromech 2(3) 245-250 (1995), 12A1313
Numerical study on combustion of a liquid fuel droplet, Numer Heat Transfer A 29(8) 843-858 (Jun 1996), 12A1319
Review of semi-analytical solutions for flame impingement heat transfer, Int J Heat Mass Transfer 39(14) 2989-3002 (Sep 1996), 12A1320
Scaling of the visible lengths of jet diffusion flames, J Energy Resources Tech 118(2) 128-133 (Jun 1996), 12A1321

416Y. Computational techniques

Spectral analysis of a simulated premixed flame surface in 2D, Comput Fluids 24(6) 663-683 (Jul 1995), 1A1340
Lumped-mass FEM with interpolation of the nonlinear coefficients for a quasilinear heat transfer equation, Numer Heat Transfer B 28(2) 199-215 (Sep 1995), 1A1342
Detailed chemistry modeling of laminar diffusion flames on parallel computers, Int J Supercomput Appl High Perform Comput 9(3) 167-186 (1 1995), 3A1238
Matrix dissipation for central difference schemes with combustion, AIAA J 33(10) 1865-1870 (Oct 1995), 3A1239
Chaos in thermal pulse combustion, Chaos 5(4) 662-670 (Dec 1995), 5A1263
Asymptotic and numerical study of diffusion flames with variable Lewis number and finite rate chemistry, Combust Flame 104(1-2) 111-137 (Jan 1996), 7A1339
Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, J Energy Resources Tech 118(1) 65-71 (Mar 1996), 8A1275
Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, J Energy Resources Tech 118(1) 72-76 (Mar 1996), 8A1276
Numerical modeling of chemistry and gas dynamics during shock-induced ethylene combustion, Combust Flame 104(3) 311-327 (Feb 1996), 8A1280
Analytical design methodology for an annular combustor, Int J Comput Fluid Dyn 5(3-4) 231-243 (1995), 9A1321
Application of rate-ratio asymptotics to the prediction of extinction for methanol droplet combustion, Combust Flame 105(3) 267-290 (May 1996), 10A1379
Newton-Krylov methods for low-Mach-number compressible combustion, AIAA J 34(5) 961-967 (May 1996), 10A1380
Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996 (Comput Mech, Billerica MA, 1996) 11N45
Calculations of thermodynamic processes in fuel-feed systems, Russian Aeronaut 38(3) 47-50 (1995), 11A1296
Upwind unstructured scheme for 3D combusting flows, J Propulsion Power 12(3) 494-502 (Jun 1996), 11A1297
Application of front tracking techniques to the turbulent combustion processes in a single stroke device, Combust Flame 106(1-2) 11-28 (Jul 1996), 12A1322
Lagrangian simulation of a thin non-premixed flame in the field of an asymmetric layer, Combust Flame 106(1-2) 41-61 (Jul 1996), 12A1323

416Z. Experimental techniques

Experimental realization of premixed methane-air cylindrical flames, Combust Flame 102(4) 519-522 (Sep 1995), 1A1343
Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, J Propulsion Power 11(5) 1083-1086 (Oct 1995), 2A1189
Composition distortion in MBMS sampling, Combust Flame 103(3) 171-180 (Nov 1995), 3A1240
Measurements of vaporized and liquid fuel concentration fields in a burning spray jet of acetone using planar laser induced fluorescence, Exp Fluids 20(1) 1-9 (Nov 1995), 5A1264
Stable vortex structures in axisymmetric convective torch during oscillating combustion, Int J Heat Mass Transfer 39(7) 1519-1525 (May 1996), 7A1340
Visualization of formaldehyde distribution above platinum plate catalyst by using LIF method, J Energy Resources Tech 118(1) 82-87 (Mar 1996), 8A1046
Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, AIAA J 34(3) 489-493 (Mar 1996), 8A1052
Instability of buoyant diffusion flames, Exp Fluids 20(4) 241-248 (Feb 1996), 8A1253
Application of noncircular primary-air inlet geometries in the inshot burners of residential gas furnaces, J Energy Resources Tech 118(1) 58-64 (Mar 1996), 8A1281
Evaluation of an amplitude-sizing anemometer and application to a pulverized coal burner, Combust Sci Tech 108(4-6) 255-277 (Oct 1995), 8A1282
Measurements of particle flame temperatures using three-color optical pyrometry, Combust Flame 104(3) 272-287 (Feb 1996), 8A1283
Measurement of the flow field in a diesel engine combustion chamber after combustion by cross-correlation of high-speed photographs, Exp Fluids 20(5) 335-345 (Mar 1996), 9A1324
Emission spectra of burning iron in high-pressure oxygen, Combust Flame 104(4) 391-400 (Mar 1996), 9A1332
Flame stretch measurements during the interaction of premixed flames and Karman vortex streets using PIV, Combust Flame 105(1-2) 167-179 (Apr 1996), 9A1333
Flow-reactor mass-spectrometer investigation of the initiation steps of the $O(^3P)$ atom reaction with benzene, Combust Flame 105(1-2) 239-241 (Apr 1996), 9A1334
Further studies on effects of thermophoresis on seeding particles in LDV measurements of strained flames, Combust Flame 105(1-2) 189-201 (Apr 1996), 9A1335
Infrared analysis of flame-generated PAH samples, Combust Flame 105(1-2) 161-166 (Apr 1996), 9A1336
Thermal and concentration fields of burner-attached jet flames in cross flow, Combust Flame 105(1-2) 211-224 (Apr 1996), 9A1337
Concentration and temperature measurements in a laser-induced high-explosive ignition zone - Part I: LIF spectroscopy measurements, Combust Flame 105(3) 381-390 (May 1996), 10A1381
Review of measurements of heat flux density applicable to the field of combustion, Exp Thermal Fluid Sci 12(4) 452-460 (May 1996), 10A1382
Experimental study of stages in aluminum particle combustion in air, Combust Flame 105(4) 541-556 (Jun 1996), 11A1298
Experimental study of the structure of several fuel-rich premixed flames of methane, oxygen, and argon, Combust Flame 105(4) 433-450 (Jun 1996), 11A1299
Laser-induced incandescence calibration via gravimetric sampling, Combust Flame 105(4) 462-470 (Jun 1996), 11A1300
Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, Combust Flame 105(4) 499-510 (Jun 1996), 11A1301
Role of combustion on droplet transport in pressure-atomized spray flames, J Propulsion Power 12(3) 543-553 (Jun 1996), 11A1302
Combustion measurements from an impinging radial jet reattachment flame, Combust Flame 106(1-2) 69-80 (Jul 1996), 12A1324
Development of an experimentally flexible facility for mixing-combustion interactions in supersonic flow, J Energy Resources Tech 118(2) 152-158 (Jun 1996), 12A1325

418. PRIME MOVERS AND PROPULSION

418B. Fundamentals

Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL (ASME Press, New York, 1995) 1N36
Determinate model of thrust-augmenting ejectors, Theor Comput Fluid Dyn 8(1) 37-55 (1996), 7A1074
Thrust generation due to airfoil flapping, AIAA J 34(2) 324-331 (Feb 1996), 7A1167
Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, JSME Int J Ser B 39(1) 185-192 (Feb 1996), 7T1341
Analysis of the effects of torque, engine geometry, and speed on choosing an engine inertia model to minimize prediction errors, J Dyn Syst Meas Control 118(1) 181-184 (Mar 1996), 9A434
Numerical and experimental study of the propulsive speed of the three-joint bending propulsion mechanism, J Fluids Eng 118(1) 134-141 (Mar 1996), 9A1456
Understanding Engineering Thermo (Prentice Hall, Upper Saddle River, NJ, 1996) 10R33
Aerospace aerothermodynamics, TsAGI 1(1) 10-24 (1994), 10A1205
Efficiency of shock wave scramjet and shock-free scramjet, TsAGI 1(4) 83-92 (1994), 10A1404
Fundamental factors in the design of a fast-responding methanol-to-hydrogen steam reformer for transportation applications, J Energy Resources Tech 118(2) 112-119 (Jun 1996), 12A1326
Unsteady processes in aerospace power units with stag: separation, J Appl Math Mech 59(6) 965-972 (1995), 12A1327

418C. Performance

Effect of sulfur dioxide in recirculated exhaust gas on wear within diesel engines: Relationship between wear and amount of SO_2 absorbed by lubricating oil film, JSME Int J Ser B 38(3) 465-474 (Aug 1995), 1T1344
Thrust characteristics of a supersonic mixer ejector, J Propulsion Power 11(5) 931-937 (Oct 1995), 2A1190
Operating characteristics of an externally pressurized gas lubricated piston ring, J Trib 117(3) 534-539 (Jul 1995), 5A1103
Flow characteristics of lobed forced mixers at higher velocity ratios, Exp Fluids 20(3) 234-237 (Jan 1996), 7T1342
Reliability model for combustion engine, Int J Vehicle Des 17(2) 208-219 (1996), 8T842
Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, Int J Energy Res 20(2) 107-123 (Feb 1996), 8A1284
Numerical method for power plant simulations, J Energy Resources Tech 118(1) 36-43 (Mar 1996), 8A1285
Influence of a piston ring assembly design on blowby and friction in a SI engine, Int J Vehicle Des 17(2) 147-162 (1996), 8A1287
Equivalence of maximum power and minimum entropy generation rate in the optimization of power plants, J Energy Resources Tech 118(2) 98-101 (Jun 1996), 12A1209
Estimation on integral aerogasdynamics of hypersonic scramjet-powered aircraft, Thermophys and Aeromech 2(3) 203-213 (1995), 12T1332

418D. Steam engines and turbines

Role of soot aggregation on the lubrication of diesel engines, Trib Trans 38(4) 959-965 (Oct 1995), 2A809
Exergy analysis of radial inflow expansion turbines for power recovery, Heat Recovery Syst CHP 15(8) 775-785 (Nov 1995), 2A1076
Mixed cycle for converting heat to mechanical work, Heat Recovery Syst CHP 15(8) 749-753 (Nov 1995), 2A1078
Modeling the transient behavior of heat recovery steam generators, Proc Inst Mech Eng A 209(A4) 265-273 (1995), 4A1263
Steam injection: Analysis of a typical application, Appl Thermal Eng 16(2) 115-125 (Feb 1996), 5A1265
Simplified dynamic model of the T700 turboshaft engine, J Am Helicopter Soc 40(4) 62-70 (Oct 1995), 6A1207
Migration of admixtures in the steam power station cycle (Polish), Prace Inst Maszyn Przeplywowych 0(99) 40-62 (1995), 9A1338
Remarks on the theory of two-phase flows in steam turbines (Polish), Prace Inst Maszyn Przeplywowych 0(99) 27-40 (1995), 9A1339
Advances in steam path technology, J Eng Gas Turbines Power 118(2) 337-352 (Apr 1996), 10A1383
Evolution of Westinghouse heavy-duty power generation and industrial turbines, J Eng Gas Turbines Power 118(2) 316-330 (Apr 1996), 10A1384
Numerical simulation of interaction between the turbine fragment and the engine envelope, Russian Aeronaut 38(3) 42-46 (1995), 11A185

418E. Internal combustion, positive displacement engines

Numerical study of the turbulent heat transfer in a motorized engine utilizing a two-boundary method-grid generation technique, Numer Heat Transfer A 28(2) 215-230 (Aug 1995), 1A1225
Effect of sulfur dioxide in recirculated exhaust gas on wear within diesel engines: Relationship between wear and amount of SO_2 absorbed by lubricating oil film, JSME Int J Ser B 38(3) 465-474 (Aug 1995), 1T1344
Effects of cylinder wall surface roughness and bore distortion on blow-by in automotive engines, Trib Trans 38(4) 966-972 (Oct 1995), 2T805
Role of soot aggregation on the lubrication of diesel engines, Trib Trans 38(4) 959-965 (Oct 1995), 2A809
Variable stroke piston mechanism for spark ignition engines, Int J Vehicle Des 16(6) 570-580 (1995), 2A1191
Development and testing diesel engine CFD models, Prog Energy Combust Sci 21(2) 173-196 (1995), 3A1241
Experimental study of the diesel engine flame radiative properties, Arch Thermodyn 15(1-4) 81-109 (1994), 3A1242
Turbulence modeling of internal combustion engines using RNG k-ε models, Combust Sci Tech 106(4-6) 267-295 (Jun 1995), 3A1243
Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, Proc Inst Mech Eng A 209(A4) 297-311 (1995), 4A1264
Experimental data processing techniques to map the performance of a spark ignition engine, Proc Inst Mech Eng D 209(D4) 297-306 (1995), 4A1265
Optical research engines: Tools in gasoline engine development, Proc Inst Mech Eng D 209(D4) 281-287 (1995), 4A1266
Effects of continuous addition of lubricating oil additives upon the performance and wear of a high-speed diesel engine in severe working conditions, Acta Polytech Scand Mech Eng 0(117) 8-140 (1995), 5A1102
Modeling heat transfer to impinging fuel sprays in direct-injection engines, Atomization and Sprays 5(2) 213-242 (Apr 1995), 5T1266
Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, Proc Inst Mech Eng D 210(D1) 63-70 (1996), 7A1192
Analytical scaling model for hydrocarbon emissions from fuel absorption in oil layers in spark ignition engines, Combust Sci Tech 109(1-6) 205-226 (Nov 1995), 7A1312
Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, JSME Int J Ser B 39(1) 185-192 (Feb 1996), 7T1341
Burning model of internal combustion engine based on neural networks (Chinese), J Dalian Univ Tech 35(6) 883-888 (1995), 7A1343
Initiation of the pre-flame reaction of n-heptane in a motored engine, Combust Sci Tech 109(1-6) 141-164 (Nov 1995), 7A1344
Study on independent effects of diesel engine operating conditions on nitric oxide formation and emissions through schematical combustion simulation, Proc Inst Mech Eng D 210(D1) 71-80 (1996), 7A1403
Reliability model for combustion engine, Int J Vehicle Des 17(2) 208-219 (1996), 8T842
Modeling of turbulent flow through intake systems of internal combustion engines: Large valve lifts, J Brazilian Soc Mech Sci 17(4) 373-379 (1995), 8A953
Aspects of the outline design specification of a 0.5 kW Stirling engine for domestic scale co-generation, Proc Inst Mech Eng A 210(A1) 25-33 (1996), 8A1286
Influence of a piston ring assembly design on blowby and friction in a SI engine, Int J Vehicle Des 17(2) 147-162 (1996), 8A1287
Multi-dimensional mathematic model for processes in cylinder of internal combustion engines (Chinese), J Dalian Univ Tech 36(1) 62-67 (Jan 1996), 8A1288
Regression analysis of inlet port performance optimized in diesel engine (Chinese), J Dalian Univ Tech 35(5) 694-698 (Oct 1995), 8A1289
Relation between engine noise and crankshaft vibrations (Chinese), J Dalian Univ Tech 36(2) 198-202 (Mar 1996), 9A234
Robust throttle control of automotive engines: Theory and experiment, J Dyn Syst Meas Control 118(1) 92-98 (Mar 1996), 9A436
Analysis of the reliability of internal combustion engine exhaust valves, J Machinery Manuf Reliab 5 40-52 (1995), 9A1027
Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, J Dyn Syst Meas Control 118(1) 106-112 (Mar 1996), 9A1340
Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, JSME Int J Ser C 39(1) 115-122 (Mar 1996), 9A1341
Development and validation of a computer simulation model for diesel fuel injection systems, Proc Inst Mech Eng D 210(D2) 149-160 (1996), 10A1385
Effect of lubricating oils on piston ring friction and scuffing, Japan J Trib 40(5) 437-449 (1995), 10A1386
Experimental study of a fluidic type fuel injector in comparison with a solenoid type injector, Proc Inst Mech Eng D 210(D2) 131-147 (1996), 10A1387
Investigations on preheated palm oil methyl esters in the diesel engine, Proc Inst Mech Eng A 210(A2) 131-138 (1996), 10A1388

Reduction of unburnt hydrocarbon emissions from spark ignition engines using in-cylinder catalysts, Proc Inst Mech Eng D 210(D2) 123-129 (1996), 10A1389
Modeling wall impaction of diesel sprays, Int J Heat Fluid Flow 17(2) 130-138 (Apr 1996), 11A1303
Participation of inert species in air in piston-compression ignition, JSME Int J Ser B 39(2) 426-432 (May 1996), 11T1304
Fundamentals of the service life design of diesel exhaust valves, J Machinery Manuf Reliab 1 45-54 (1996), 12A985
Investigation of lean combustion in a natural gas-fueled spark-ignited engine, J Energy Resources Tech 118(2) 145-151 (Jun 1996), 12A1328
Investigation of the lean operational limits of gas-fueled spark ignition engines, J Energy Resources Tech 118(2) 159-163 (Jun 1996), 12A1329
Soot mass concentration measurements in diesel engine exhaust using laser-induced incandescence, Aerosol Sci Tech 25(1) 46-60 (Jul 1996), 12A1330

418F. Free piston and wave engines

Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL (ASME Press, New York, 1995) 1N36
Analysis of free-piston Stirling engine-linear alternator systems - Part 1: Theory, J Propulsion Power 11(5) 1036-1046 (Oct 1995), 2A1192
Analysis of free-piston Stirling engine-linear alternator systems - Part 2: Results, J Propulsion Power 11(5) 1047-1055 (Oct 1995), 2A1193

418G. Gas turbines

Advances in Engine Technology - EC Aeronautics Research Series (Wiley, UK, 1995) 4R21
Introduction to Aerospace Propulsion (Prentice Hall, Upper Saddle River, NJ, 1996) 4R32
Computational Fluid Dynamics in Aeropropulsion, AD-Vol 49 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N33
Optimum pressure ratio for a combined cycle gas turbine plant, Proc Inst Mech Eng A 209(A4) 259-264 (1995), 4A1267
Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, J Eng Gas Turbines Power 117(4) 767-776 (Oct 1995), 5A157
Diesel electro-injector: A numerical simulation code, J Eng Gas Turbines Power 117(4) 792-798 (Oct 1995), 5A1072
Advanced gas engine cogeneration technology for special applications, J Eng Gas Turbines Power 117(4) 826-831 (Oct 1995), 5A1267
Calculation of two-phase flow in gas turbine combustors, J Eng Gas Turbines Power 117(4) 695-703 (Oct 1995), 5A1268
Ceramic gas turbine technology development, J Eng Gas Turbines Power 117(4) 783-791 (Oct 1995), 5A1269
Combined cycle designed to achieve greater than 60 percent efficiency, J Eng Gas Turbines Power 117(4) 734-741 (Oct 1995), 5A1270
Combined power plants: Past, present, and future, J Eng Gas Turbines Power 117(4) 608-616 (Oct 1995), 5A1271
Design and development of a direct injected, glow plug ignition-assisted, natural gas engine, J Eng Gas Turbines Power 117(4) 799-803 (Oct 1995), 5A1272
Detailed measurements on a modern combustor dump diffuser system, J Eng Gas Turbines Power 117(4) 678-685 (Oct 1995), 5A1273
Development of 300 kW class ceramic gas turbine (CGT303), J Eng Gas Turbines Power 117(4) 777-782 (Oct 1995), 5A1274
Development requirements for an advanced gas turbine system, J Eng Gas Turbines Power 117(4) 724-733 (Oct 1995), 5A1275
Enhancement of performance of gas turbine engines by inlet air cooling and cogeneration system, Appl Thermal Eng 16(2) 163-173 (Feb 1996), 5A1276
Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 1: Mean and turbulent flowfield, J Fluids Eng 117(3) 450-458 (Sep 1995), 5A1277
Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 2: Higher order moments and flow visualization, J Fluids Eng 117(3) 459-467 (Sep 1995), 5A1278
Flow field and performance characteristics of combustor diffusers: A basic study, J Eng Gas Turbines Power 117(4) 686-694 (Oct 1995), 5A1279
Gas-operated bearing damper for turbomachinery - theoretical predictions versus experimental measurements - Part II: Experimental results and comparison with theory, J Eng Gas Turbines Power 117(4) 750-756 (Oct 1995), 5A1280
Integration of magnetic bearings in the design of advanced gas turbine engines, J Eng Gas Turbines Power 117(4) 655-665 (Oct 1995), 5A1281
Landfill gas application development of the Caterpillar G3600 spark-ignited gas engine, J Eng Gas Turbines Power 117(4) 820-825 (Oct 1995), 5A1282
Medway: A high-efficiency combined cycle power plant design, J Eng Gas Turbines Power 117(4) 713-723 (Oct 1995), 5A1283
Methodology to assess design uncertainty in selecting affordable gas turbine technology, J Eng Gas Turbines Power 117(4) 666-672 (Oct 1995), 5A1284
Modeling and control of HSFDs for active control of rotor-bearing systems, J Eng Gas Turbines Power 117(4) 757-766 (Oct 1995), 5A1285
Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, J Eng Gas Turbines Power 117(4) 704-712 (Oct 1995), 5A1286
Role of fuel preparation in low-emission combustion, J Eng Gas Turbines Power 117(4) 617-654 (Oct 1995), 5A1287
System evaluation and LBTU fuel combustion studies for IGCC power generation, J Eng Gas Turbines Power 117(4) 673-677 (Oct 1995), 5A1288
Theoretical and experimental investigation of a gas-operated bearing damper for turbomachinery - Part I: Theoretical model and predictions, J Eng Gas Turbines Power 117(4) 742-749 (Oct 1995), 5A1289
Thermoeconomic optimization of sensible heat thermal storage for cogenerated waste-to-energy recovery, J Eng Gas Turbines Power 117(4) 832-836 (Oct 1995), 5A1290
Role of slip in the generation of acoustic instabilities in gas turbines, J Propulsion Power 12(1) 34-40 (Feb 1995), 6A1199
Simplified dynamic model of the T700 turboshaft engine, J Am Helicopter Soc 40(4) 62-70 (Oct 1995), 6A1207
Aircraft and rocket engine design: Opportunity of using birotative turbine with straightening cascade in turbojet by-pass engines, Russian Aeronaut 38(2) 97-99 (1995), 8A1290
Investigation of high-temperature engines in system of supersonic aircraft, Russian Aeronaut 38(2) 71-75 (1995), 8T1291
Experimental leakage and rotordynamic results for helically grooved annular gas seals, J Eng Gas Turbines Power 118(2) 389-393 (Apr 1996), 10A229
F117-PW-100 hybrid ball bearing ceramic technology insertion, J Eng Gas Turbines Power 118(2) 434-442 (Apr 1996), 10A1010
Air bottoming cycle: Use of gas turbine waste heat for power generation, J Eng Gas Turbines Power 118(2) 359-368 (Apr 1996), 10A1390
Benefits of MS 6001B gas turbine in cogeneration: The UEM power plant case, J Eng Gas Turbines Power 118(2) 331-336 (Apr 1996), 10A1391
Combined helium and combustion gas turbine plant exploiting liquid hydrogen (LH_2) physical exergy, J Eng Gas Turbines Power 118(2) 257-264 (Apr 1996), 10A1392
Component and procedural improvements for the T-62T-40-7 gas turbine in the LCAC fleet, J Eng Gas Turbines Power 118(2) 369-374 (Apr 1996), 10A1393
Effect of cyclic loading on the creep performance of silicon nitride, J Eng Gas Turbines Power 118(2) 251-256 (Apr 1996), 10A1394
Installation, testing, and lessons learned of the TF40B gas turbine test facility, J Eng Gas Turbines Power 118(2) 375-379 (Apr 1996), 10A1395
Mechanisms of coke formation in gas turbine combustion chambers, J Eng Gas Turbines Power 118(2) 265-270 (Apr 1996), 10A1396
Method to reduce the rejection rate for low performance at the acceptance test of PWC PT6T-6 overhauled power sections, J Eng Gas Turbines Power 118(2) 229-235 (Apr 1996), 10A1397
Modeling of (cogeneration) power plants on time-dependent power demands of the consumer, J Eng Gas Turbines Power 118(2) 353-358 (Apr 1996), 10A1398
Modeling of local extinction in turbulent flames, J Eng Gas Turbines Power 118(2) 292-307 (Apr 1996), 10A1399
Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, J Eng Gas Turbines Power 118(2) 246-250 (Apr 1996), 10A1400
Thermodynamic analysis of new combination of supercharged boiler cycle and heat recovery cycle for power generation, J Eng Gas Turbines Power 118(2) 453-460 (Apr 1996), 10A1401
Initial section of gas nozzle-burner flame with unsymmetrical boundary conditions, Russian Aeronaut 38(3) 37-41 (1995), 11A1268
Hot-streak clocking effects in a 1-1/2 stage turbine, J Propulsion Power 12(3) 619-620 (Jun 1996), 11A1305
Propellant design relationships for throttled gas generators, J Propulsion Power 12(3) 614-616 (Jun 1996), 11A1306
Study of the GTE real cycle efficiency with one- and two-staged heat input at equality of their effective cycles, Russian Aeronaut 38(3) 24-29 (1995), 11A1307
Fluid Dynamics and Heat Transfer of Turbomachinery (Wiley, New York, 1996) 12R38
Modeling of supercharger turbines in internal-combustion engines, Int J Mech Sci 38(8-9) 853-869 (Sep 1996), 12A1176

418H. Rocket motors

Structurally compliant rocket engine combustion chamber - Experimental and analytical validation, J Spacecraft Rockets 32(4) 645-652 (Aug 1995), 1A1345
Titan IV motor failure and redesign analysis, J Spacecraft Rockets 32(4) 612-618 (Aug 1995), 1A1346
Analysis of air-turborocket performance, J Propulsion Power 11(5) 950-954 (Oct 1995), 2A1194
Flow-structural interaction inside a solid rocket motor during ignition transient, J Propulsion Power 11(5) 998-1005 (Oct 1995), 2A1195
Solid rocket motor grain burnback analysis using adaptive grids, J Propulsion Power 11(5) 1006-1011 (Oct 1995), 2A1196
Introduction to Aerospace Propulsion (Prentice Hall, Upper Saddle River, NJ, 1996) 4R32
4000°F materials for low-thrust rocket engines, J Propulsion Power 11(6) 1261-1267 (Dec 1995), 4A1268
Delta improvement study: Hydrogen upper stage, J Propulsion Power 11(6) 1288-1290 (Dec 1995), 4A1269
Design studies of the advanced technology engine, J Propulsion Power 11(6) 1268-1278 (Dec 1995), 4A1270
Life prediction of the thrust chamber wall of a reusable rocket engine, J Propulsion Power 11(6) 1279-1287 (Dec 1995), 4A1271
Optimization of hybrid-rocket-booster fuel-grain design, J Spacecraft Rockets 32(6) 964-969 (Dec 1995), 5A1291
Influence of rocket design parameters on engine nozzle efficiencies, J Propulsion Power 12(1) 41-47 (Feb 1995), 6A1208
Arcjet development for amateur radio satellite, J Spacecraft Rockets 33(1) 86-91 (Feb 1996), 7A987
Local effects of solid rocket motor exhaust on stratospheric ozone, J Spacecraft Rockets 33(1) 144-153 (Feb 1996), 7A1345
System optimization of ablative pulsed plasma thrusters for stationkeeping, J Spacecraft Rockets 33(1) 96-100 (Feb 1996), 7A1346
Theoretical upper limits on enthalpy rocket performance, J Propulsion Power 12(2) 445-448 (Apr 1996), 8A1292
Acoustic-mean flow interaction and vortex shedding in solid rocket motors, Int J Numer Methods Fluids 22(6) 449-465 (Mar 1996), 9A1342
Draining of liquid from tanks of square or rectangular cross sections, J Spacecraft Rockets 33(2) 311-312 (Apr 1996), 10T1402
Acoustic-instability boundaries in liquid-propellant rockets: Theoretical explanation of empirical correlation, J Propulsion Power 12(3) 621-624 (Jun 1996), 11A1308
Internal ballistic model for spinning star-grain motors, J Propulsion Power 12(3) 612-614 (Jun 1996), 11A1309
Laboratory-scale hybrid rocket motor uncertainty analysis, J Propulsion Power 12(3) 605-611 (Jun 1996), 11A1310
Theoretical effects of aluminum gel propellant secondary atomization on rocket engine performance, J Propulsion Power 12(3) 591-597 (Jun 1996), 11A1311
Computational pollutant environment assessment from propulsion-system testing, J Spacecraft Rockets 33(3) 386-392 (Jun 1996), 12A1331

418I. Jet and fanjet engines

Developments in High-Speed-Vehicle Propulsion Systems (AIAA, MD, 1995) 3N31
Supersonic combustion ramjet missile, J Propulsion Power 11(6) 1139-1146 (Dec 1995), 4A1272
Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, J Eng Gas Turbines Power 117(3) 489-498 (Jul 1995), 5A1030
Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, J Eng Gas Turbines Power 117(3) 499-508 (Jul 1995), 5A1031
Multiburner combustors: A prospective trend of the development of aircraft engines, J Machinery Manuf Reliab 2 1-8 (1995), 5T1238
Mixing of swirling jets in a supersonic duct flow, J Propulsion Power 12(1) 170-177 (Feb 1995), 6A962
Acutation system requirements for advanced short take-off and vertical landing powerplants, Proc Inst Mech Eng J Aerospace Eng 209(G4) 281-289 (1995), 6A1209
Internal flowfield characteristics of a scramjet inlet at Mach 10, J Propulsion Power 12(1) 158-164 (Feb 1995), 6A1210
Reacting flow simulation for a large-scale ram accelerator, J Propulsion Power 12(1) 61-69 (Feb 1995), 6A1211
Flow characteristics of lobed forced mixers at higher velocity ratios, Exp Fluids 20(3) 234-237 (Jan 1996), 7T1342
Multivariable control of the F-100 turbofan engine using Edmunds' method, Int J Turbo Jet Engines 12(4) 307-322 (1995), 9A1343
Probabilistic method for the fatigue life assessment of powder metallurgy parts of aircraft engines, J Eng Gas Turbines Power 118(2) 411-415 (Apr 1996), 10A733
Jet fuel deposition and oxidation: Dilution, materials, oxygen, and temperature effects, J Eng Gas Turbines Power 118(2) 271-277 (Apr 1996), 10A1373
Surface effects on deposits from jet fuels, J Eng Gas Turbines Power 118(2) 278-285 (Apr 1996), 10A1374
Surface fouling in aviation fuels: An isothermal chemical study, J Eng Gas Turbines Power 118(2) 286-291 (Apr 1996), 10A1375
Affordable nacelle technologies for future turbofans, J Eng Gas Turbines Power 118(2) 236-239 (Apr 1996), 10A1403
Assessment of noise control measures for a model advanced ducted propulsor, J Aircraft 33(3) 505-510 (Jun 1996), 11A258
Jet interaction in liquid-liquid coaxial injectors, J Fluids Eng 118(2) 329-334 (Jun 1996), 12A1133

418J. Ramjets

Approach to in situ analysis of scramjet combustor behavior, J Propulsion Power 11(5) 943-949 (Oct 1995), 2A1197
Hypervelocity scramjet mixing enhancement, J Propulsion Power 11(5) 1088-1090 (Oct 1995), 2T1198
Developments in High-Speed-Vehicle Propulsion Systems (A:AA, MD, 1995) 3N31
Introduction to Aerospace Propulsion (Prentice Hall, Upper Saddle River, NJ, 1996) 4R32
One-dimensional, equilibrium-chemistry ram accelerator performance calculations, J Propulsion Power 11(6) 1366-1368 (Dec 1995), 4A1273
Use of jet interaction for ignition in ram and external propulsion accelerators, J Propulsion Power 11(6) 1299-1306 (Dec 1995), 4A1274
Technology demonstration nozzle for Mach 7 turboramjets, J Eng Gas Turbines Power 117(3) 401-405 (Jul 1995), 5A1292
Fluid phenomena in scramjet combustion systems, Annu Rev Fluid Mech 28 323-360 (1996), 6A1212
Transverse jet mixing and combustion experiments in hypervelocity flows, J Propulsion Power 12(1) 186-192 (Feb 1995), 6A1213
Research reviews on flameholders and combustion of an afterburner and a Ramjet engine, JSME Int J Ser B 39(1) 1-10 (Feb 1996), 7A1347
Preliminary studies on dual-mode combustion ramjet using petal nozzle, J Propulsion Power 12(2) 424-426 (Apr 1996), 8A1293
Strategy for developing air-breathing aerospace planes, J Aircraft 33(2) 377-385 (Apr 1996), 9A1344
Efficiency of shock wave scramjet and shock-free scramjet, TsAGI 1(4) 83-92 (1994), 10A1404
Unsteady pressure behavior in a ramjet-scramjet inlet, J Propulsion Power 12(3) 486-493 (Jun 1996), 11A1312
Estimation on integral aerogasdynamics of hypersonic scramjet-powered aircraft, Thermophys and Aeromech 2(3) 203-213 (1995), 12T1332

418K. Nuclear power systems

Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL (ASME Press, New York, 1995) 1N36
Isotope and parameter effects in a gas core nuclear propulsion reactor, J Spacecraft Rockets 32(4) 719-722 (Aug 1995), 1A1347
Safety control of prestressing in nuclear plants, J Struct Eng 121(11) 1722-1725 (Nov 1995), 3A1244
Hydrogen corrosion considerations of carbide fuels for nuclear thermal propulsion applications, J Propulsion Power 11(6) 1338-1348 (Dec 1995), 4A1275
Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, Fusion Eng Des 31(2) 109-115 (Jun 1996), 12A1333

418L. Ionic, electric, and photonic propulsion

Material-property effects on a thin-film solar concentrator, J Spacecraft Rockets 32(4) 697-702 (Aug 1995), 1A1348

Investigation of stabilized resonant cavity microwave plasmas for propulsion, J Propulsion Power 11(5) 1021-1027 (Oct 1995), 2A1199
Laser propulsion 10-kW thruster test program results, J Propulsion Power 11(6) 1307-1316 (Dec 1995), 4A1276
Performance comparisons of low-power arcjets, J Propulsion Power 11(6) 1368-1371 (Dec 1995), 4A1277
Two-dimensional numerical model of plasma flow in a Hall thruster, J Propulsion Power 11(6) 1317-1323 (Dec 1995), 4A1278
Anode heat loss and current distributions in a DC arcjet, J Propulsion Power 12(1) 120-126 (Feb 1995), 6A1214
Considerations of the all electric (accessory) engine concept, Proc Inst Mech Eng J Aerospace Eng 209(G4) 273-280 (1995), 6A1215
Electric probe measurements in the plume of an ion thruster, J Propulsion Power 12(1) 95-104 (Feb 1995), 6A1216
Near- and far-field plume studies of a one-kilowatt arcjet, J Propulsion Power 12(1) 105-111 (Feb 1995), 6A1217
Two-fluid nonequilibrium simulation of hydrogen arcjet thrusters, J Propulsion Power 12(1) 112-119 (Feb 1995), 6A1218
System optimization of ablative pulsed plasma thrusters for stationkeeping, J Spacecraft Rockets 33(1) 96-100 (Feb 1996), 7A1346
Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, J Spacecraft Rockets 33(1) 137-143 (Feb 1996), 7A1348
Microinstabilities in a 10-kilowatt self-field magnetoplasmadynamic thruster, J Propulsion Power 12(2) 381-389 (Apr 1996), 8A1294
Simple geometric model for estimating the impingement current on ion thruster grids, J Propulsion Power 12(2) 377-380 (Apr 1996), 8A1295
Electric-propulsion spacecraft optimization for lunar missions, J Spacecraft Rockets 33(2) 235-239 (Apr 1996), 10A1405

418M. Working fluids

Effect of sulfur dioxide in recirculated exhaust gas on wear within diesel engines: Relationship between wear and amount of SO_3 absorbed by lubricating oil film, JSME Int J Ser B 38(3) 465-474 (Aug 1995), 1T1344
Methodology for comparison of hydraulic and thermal performance of alternative heat transfer fluids in complex systems, Heat Transfer Eng 16(1) 60-72 (Mar 1995), 1A1349
Development of an aviation fuel thermal stability test unit, J Eng Gas Turbines Power 117(3) 468-474 (Jul 1995), 5A1243
Thermal stability and heat transfer characteristics of methane and natural gas fuels, J Eng Gas Turbines Power 117(3) 462-467 (Jul 1995), 5A1244
Development of engineering design data for new refrigerants - I: Pure fluids and azeotropic mixtures, Int J Energy Res 20(2) 143-155 (Feb 1996), 8A1296
Working fluids in non-steady flows for waste energy recovery systems, Appl Thermal Eng 16(7) 579-590 (Jul 1996), 11A1313

418N. Other devices

Multidimensional in-cylinder flow calculations and flow visualization in a motored engine, J Fluids Eng 117(2) 282-288 (Jun 1995), 1A1350
Design and development of a large bipropellant blowdown propulsion system, J Propulsion Power 11(5) 986-991 (Oct 1995), 2A1200
Test experience, 490-N high-performance [321-s specific impulse] engine, J Propulsion Power 11(5) 992-997 (Oct 1995), 2A1201
Cassini multilayer insulation blanket high-temperature exposure tests, J Thermophys Heat Transfer 9(4) 778-783 (Dec 1995), 3A1245
Galileo high-gain antenna deployment anomaly thermal analysis support, J Thermophys Heat Transfer 9(4) 771-777 (Dec 1995), 3A1246
Loaded thermoacoustic engine, J Acoust Soc Am 98(5) 2690-2693 (Nov 1995), 3A1247
Flow distribution and pressure drop in diffuser-monolith flows, J Fluids Eng 117(3) 362-368 (Sep 1995), 5A1227
Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, J Flow Visualization Image Proc 2(2) 125-133 (1995), 5T1293
Performance evaluation of dry-cooling systems for power plant applications, Appl Thermal Eng 16(3) 219-232 (Mar 1996), 6A1219
Oblique detonation wave engine performance prediction, J Propulsion Power 12(2) 322-327 (Apr 1996), 8A1297
Subcritical crack growth life prediction for ceramic components of advanced heat engines, J Eng Gas Turbines Power 118(2) 240-245 (Apr 1996), 10A805
Impact of ambient temperature on lithium-bromide-water absorption machine performance, Appl Thermal Eng 16(6) 515-522 (Jun 1996), 10A1406

VII. EARTH SCIENCES

450. MICROMERITICS

Mechanics of collisional motion of granular materials - Part 3: Self-similar shock wave propagation, J Fluid Mech 316 29-51 (Jun 1996), 12A1334

450B. Geometrical properties of solid particles

Characterization of single particles, particulate materials and two-phase bodies, Acta Tech CSAV 40(4) 421-458 (1995), 1A1351
Distinguishing between spherical and nonspherical particles by measuring the variability in azimuthal light scattering, Aerosol Sci Tech 23(3) 373-391 (Oct 1995), 2A1202
Development of artificial soft rock (Japanese), Proc JSCE 522(VI-28) 45-49 (Sep 1995), 4T1279
Orientation-specific dynamic shape factors for doublets and triplets of spheres in the transition regime, Aerosol Sci Tech 24(1) 36-44 (Jan 1996), 7A1349
Kinematic and static hypotheses for constitutive modeling of granulates considering particle rotation, Acta Mech 115(1-4) 213-229 (1996), 9A5
Stress and strain in granular assemblies, Mech Mat 22(3) 165-177 (Mar 1996), 10A1407
Size measurement of fine powders using the differential mobility analyzer - Application of boiling method for aerosol generation, Aerosol Sci Tech 25(1) 61-66 (Jul 1996), 12A1335

450C. Mechanical and physical properties of solid particles

Simulation of the quasi-static mechanics and scalar transport properties of ideal granular assemblages, J Comput Phys 121(2) 331-346 (Oct 1995), 2T1203
Distribution of selected physical properties in the crushed material, Arch Gornictwa 40(1) 83-100 (1995), 3A1248
Modeling of particulate media using discontinuous deformation analysis, J Eng Mech 121(11) 1234-1243 (Nov 1995), 3A1249
Washability characteristics of raw materials (Polish), Arch Gornictwa 40(1) 101-110 (1995), 3A1250
Punch problem for shear-index granular materials, Quart J Mech Appl Math 49(1) 81-105 (Feb 1996), 7A1350
Quasi-static discrete element model of granular materials, Comput Geotech 18(2) 145-165 (1996), 8A1298

450D. Comminution of solids

Affected layer produced by grit blasting for austenitic stainless steel, Int J Japan Soc Precision Eng 29(1) 46-47 (Mar 1995), 1T720
Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), Proc JSCE 522(VI-28) 77-86 (Sep 1995), 4A666

450E. Statics of solid particles

Kinematic and static hypotheses for constitutive modeling of granulates considering particle rotation, Acta Mech 115(1-4) 213-229 (1996), 9A5
Stress and strain in granular assemblies, Mech Mat 22(3) 165-177 (Mar 1996), 10A1407
Homogenization for granular materials: Non reversible behavior, Mech Cohesive-Frictional Mat 1(2) 199-218 (Apr 1996), 11A1314

450F. Dynamics of solid particles

Effect of fiber inertia on its orientation in a shear flow with application to lung dosimetry, Aerosol Sci Tech 23(3) 282-290 (Oct 1995), 2A1204
Finite deformation analysis of motion of granular material in a silo, Arch Mech 47(3) 617-633 (1995), 3A1251
Numerical modeling of convex particle assemblies with friction, Comput Methods Appl Mech Eng 127(1-4) 371-386 (Nov 1995), 4A1280
Strength enhancement in particulate solids under high loading rates, Earthquake Eng Struct Dyn 24(12) 1609-1622 (Dec 1995), 5A550
Boundary effects for Couette flow of granular materials: Dynamical modeling, Appl Math Model 20(1) 82-92 (Jan 1996), 5A1294
Local measurements of velocity fluctuations and diffusion coefficients for a granular material flow, J Fluid Mech 304 1-25 (Dec 1995), 6A1220
Axisymmetric thermophoresis of multiple aerosol spheres, Aerosol Sci Tech 24(1) 21-35 (Jan 1996), 7A1351
Risk of dike failure due to flow slides, Coastal Eng 26(3-4) 241-249 (Dec 1995), 7A1352
Ice streams in Antarctica: Transverse instability of gravity-driven flow, J Non-Newtonian Fluid Mech 62(2-3) 155-174 (Feb 1996), 8A1299
Stability of bounded rapid shear flows of a granular material, J Fluid Mech 308 31-62 (Feb 1996), 8A1300
Talc-thermoplastic compounds: Particle orientation in flow and rheological properties, J Non-Newtonian Fluid Mech 62(2-3) 175-206 (Feb 1996), 8A1301
Comparison of thermal rebound theory with penetration measurements of nanometer particles through wire screens, Aerosol Sci Tech 24(3) 129-134 (Apr 1996), 9A1345
Penetration of ultrafine particles and ion clusters through wire screens, Aerosol Sci Tech 24(3) 119-127 (Apr 1996), 9A1346
Submicron fly ash penetration through electrostatic precipitators at two coal power plants, Aerosol Sci Tech 24(3) 191-204 (Apr 1996), 9A1347
Vertical oscillation of a bed of granular material, J Appl Mech 63(1) 156-161 (Mar 1996), 9A1348
Granular-flow rheology: Role of shear-rate number in transition regime, J Eng Mech 122(5) 469-480 (May 1996), 10A1044
Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, J Fluid Mech 314 163-189 (May 1996), 11A1315
Effect of alpha source to aerosol distance on the performance of a diffusion charger, Aerosol Sci Tech 24(4) 255-262 (May 1996), 11A1316
Environment control of individual aqueous particles in a cubic electrodynamic levitation system, Aerosol Sci Tech 24(4) 263-278 (May 1996), 11A1317
Three-dimensional model for analyzing charge carrier motion around a charged spherical object in the presence of flow and electric field, Aerosol Sci Tech 24(4) 279-289 (May 1996), 11A1318
Application of vibratory disk feeders for silos, Forschung Ingenieur 62(5) 129-145 (May 1996), 12A1336
Monte-Carlo simulation of turbulent deposition of charged particles in a plate-plate electrostatic precipitator, Aerosol Sci Tech 25(1) 31-45 (Jul 1996), 12A1337

450G. Snow motion

Ice streams in Antarctica: Transverse instability of gravity-driven flow, J Non-Newtonian Fluid Mech 62(2-3) 155-174 (Feb 1996), 8A1299

450H. Characteristics of packings (pressured particles)

Characterization of morphological changes in agglomerates subject to condensation and evaporation using multiple fractal dimensions, Aerosol Sci Tech 23(3) 431-442 (Oct 1995), 2A1205
Development of self-compacting high performance concrete (Japanese), Proc JSCE 522(VI-28) 23-26 (Sep 1995), 4T806
Packing characterization of granular composite media in 2Ds, J Appl Mech 62(3) 811-813 (Sep 1995), 5T1295
Plane strain in granular media, Mech Res Commun 23(1) 41-46 (Feb 1996), 7T1353

450J. Mechanical and physical properties of atomized liquids

Liquid sheet and film atomization: A comparative experimental study, Exp Fluids 19(6) 388-396 (Oct 1995), 4A1015
Development and evaluation of a new turbulence generator for atomization research, Exp Fluids 20(4) 291-301 (Feb 1996), 8A933
Measurement of indoor bioaerosol levels by a direct counting method, J Env Eng 122(5) 374-378 (May 1996), 10T1458
Aerosol evaporation in the transition regime, Aerosol Sci Tech 25(1) 11-21 (Jul 1996), 12A1338

450Z. Experimental techniques

Design and test of a polar nephelometer, Aerosol Sci Tech 23(3) 341-356 (Oct 1995), 2A1206
Measurements and control of particle deposition velocity on a horizontal wafer with thermophoretic effect, Aerosol Sci Tech 23(3) 321-330 (Oct 1995), 2A1207
Particle size distribution of airborne dusts using a scanning electron microscope, Aerosol Sci Tech 23(3) 475-478 (Oct 1995), 2A1208
Radial differential mobility analyzer, Aerosol Sci Tech 23(3) 357-372 (Oct 1995), 2A1209
Single particle characterization of time-of-flight mass spectrometry, Aerosol Sci Tech 23(3) 263-270 (Oct 1995), 2A1210
Densimetric and magnetic characteristics of crushed materials (Polish), Arch Gornictwa 40(1) 63-82 (1995), 3A1252
Axisymmetric instrument response resulting from mixing effects in accelerated DMA-CPC measurements, Aerosol Sci Tech 23(4) 491-509 (Nov 1995), 4A1281
Comparative study of pressure reducers for aerosol sampling from high purity gases, Aerosol Sci Tech 23(4) 481-490 (Nov 1995), 4A1282
Development of a new thermophoretic precipitator for scanning transmission electron microscope analysis of ultrafine aerosol particles, Aerosol Sci Tech 23(4) 521-533 (Nov 1995), 4A1283
Experimental investigation for agglomeration of aerosols in alternating electric fields, Aerosol Sci Tech 23(4) 603-610 (Nov 1995), 4A1284
Fibrous particle decomposition in a turbulent channel flow: An experimental study, Aerosol Sci Tech 23(4) 641-652 (Nov 1995), 4A1285
Fluorescence particle counter for detecting airborne bacteria and other biological particles, Aerosol Sci Tech 23(4) 653-664 (Nov 1995), 4A1286
High-output, size-selective aerosol generator, Aerosol Sci Tech 23(4) 510-520 (Nov 1995), 4A1287
Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, Aerosol Sci Tech 23(4) 591-602 (Nov 1995), 4A1288
Removal of fine particles from smooth flat surfaces by consecutive pulse air jets, Aerosol Sci Tech 23(4) 665-673 (Nov 1995), 4A1289
Stochastic modeling of a new spectrometer, Aerosol Sci Tech 23(4) 611-627 (Nov 1995), 4A1290
Local measurements of velocity fluctuations and diffusion coefficients for a granular material flow, J Fluid Mech 304 1-25 (Dec 1995), 6A1220
Punch problem for shear-index granular materials, Quart J Mech Appl Math 49(1) 81-105 (Feb 1996), 7A1350
Efficient multiple charging of diesel particles by photoemission, Aerosol Sci Tech 24(1) 14-20 (Jan 1996), 7A1354
Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, Aerosol Sci Tech 24(1) 1-13 (Jan 1996), 7A1355
Particle reentrainment from a fine powder layer in a turbulent air flow, Aerosol Sci Tech 24(2) 69-84 (Feb 1996), 8A1302
Turbulent deposition of aerosol particles in large transport tubes, Aerosol Sci Tech 24(2) 107-116 (FEb 1996), 8A1303
Bounded logarithm scale for particle count data, Aerosol Sci Tech 24(3) 217-219 (Apr 1996), 9A1349
Simultaneous detection of positive and negative ions from single airborne particles by real-time laser mass spetrometry, Aerosol Sci Tech 24(4) 233-242 (May 1996), 11A1319
Design and testing of a photochemical aerosol generator for calibrating aerosol measuring instruments in the submicrometer region, Aerosol Sci Tech 25(1) 67-72 (Jul 1996), 12A1339
Influence of particle refractive index on the lower detection limit of light scattering aerosol counters, Aerosol Sci Tech 25(1) 1-10 (Jul 1996), 12A1340

452. POROUS MEDIA

452B. Fundamentals of fluid flow

Dispersion in consolidated sandstone with radial flow, Transport Porous Media 19(1) 37-66 (Apr 1995), 1A1352
Macroscopic capillary pressure, Transport Porous Media 19(1) 67-77 (Apr 1995), 1A1353
Momentum transfer at the boundary between a porous medium and a homogeneous fluid - I: Theoretical development, Int J Heat Mass Transfer 38(14) 2635-2646 (Sep 1995), 1A1354
Momentum transfer at the boundary between a porous medium and a homogeneous fluid - II: Comparison with experiment, Int J Heat Mass Transfer 38(14) 2647-2655 (Sep 1995), 1A1355
Pressure perturbations method for analysis of transient compressible gas flow around wells in porous media, Int J Heat Mass Transfer 38(14) 2697-2700 (Sep 1995), 1T1356
Comparison of fast algorithms for estimating large-scale permeabilities of heterogeneous media, Transport Porous Media 19(2) 123-137 (May 1995), 2A1211
Continuum modeling of porous media containing fluid: A molecular viewpoint with particular attention to scale, Transport Porous Media 19(2) 157-197 (May 1995), 2A1212
Generalization of the Forchheimer-extended Darcy flow model to the tensor permeability case via a variational principle, J Fluid Mech 299 97-104 (Sep 1995), 2A1213
Multi-scale theory of swelling porous media - I: Application to 1D consolidation, Transport Porous Media 19(2) 93-122 (May 1995), 2A1214
Numerical solution of water quality equation for rivers (Japanese), Proc JSCE 521(II-32) 59-68 (Aug 1995), 3A887
Finite volume method using Voronoi grids for the solution of miscible displacement in porous media, J Brazilian Soc Mech Sci 16(4) 415-422 (1994), 3A1253
Gas and solute diffusion coefficients in pore networks and its description by a simple capillary model, Transport Porous Media 19(3) 281-301 (Jun 1995), 3A1254
Magnetohydrodynamic flow of second order fluid through a porous medium on an inclined porous plane, Arab J Sci Eng 20(3) 571-580 (Jul 1995), 4A1093
Comment on fractal and superdiffusive transport and hydrodynamic dispersion in heterogeneous porous media, by Muhammad Sahimi, Transport Porous Media 21(2) 175-188 (Nov 1995), 4A1291
Impacts of local dispersion and first-order decay on solute transport in randomly heterogeneous porous media, Transport Porous Media 21(2) 123-144 (Nov 1995), 4A1292
Modeling of colloid and colloid-facilitated contaminant transport in a 2D fracture with spatially variable aperture, Transport Porous Media 20(3) 197-221 (Sep 1995), 4A1293
Modeling of miscible flow in multi-component porous media, Transport Porous Media 21(1) 19-46 (Oct 1995), 4A1294
Non-Gaussian diffusion modeling in composite porous media by homogenization: Tail effect, Transport Porous Media 21(1) 47-70 (Oct 1995), 4A1295
Numerical and analytical study to estimate the effect of two length scales upon the permeability of a fibrous porous medium, Transport Porous Media 21(1) 1-17 (Oct 1995), 4A1296
Propagation of acceleration waves in incompressible saturated porous solids, Transport Porous Media 21(2) 163-173 (Nov 1995), 4A1297
Reply to "comment on fractal and superdiffusive transport and hydrodynamic dispersion in heterogeneous porous media", Transport Porous Media 21(2) 189-194 (Nov 1995), 4T1298
Tensiometer reaction related to its filter dimensions, Transport Porous Media 20(3) 235-250 (Sep 1995), 4A1299
Tortuosity and aerosity tensors for porous media, Transport Porous Media 20(3) 265-279 (Sep 1995), 4A1300
Two-dimensional interaction of a wetting front with an impervious layer: Analytical and numerical solutions, Transport Porous Media 20(3) 251-263 (Sep 1995), 4A1301
Partitioned solution procedure for simulating water flow in a variably saturated dual-porosity medium, Adv Water Resources 18(6) 335-343 (1995), 4T1308
Evolution of the balance equations in saturated thermoelastic porous media following abrupt simultaneous changes in pressure and temperature, Transport Porous Media 21(3) 241-268 (Dec 1995), 5A1296
Flow pattern analysis for a well defined by point sinks, Transport Porous Media 21(3) 209-223 (Dec 1995), 5A1297
Fluid flow analysis in an axially rotating porous pipe with mass injection at the wall, Numer Heat Transfer A 28(6) 723-737 (Dec 1995), 5A1298
Elucidation of pressure drop in packed-bed systems, Appl Thermal Eng 16(3) 195-202 (Mar 1996), 6A1221
Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory, Appl Mech Rev 49(4) 201-262 (Apr 1996), 6A1222
Determination of moisture diffusivity in porous media using moisture concentration profiles, Int J Heat Mass Transfer 39(6) 1273-1280 (Apr 1996), 7A1300
Isothermal liquid transport in porous media: Capillary hysteresis effects, Int J Heat Mass Transfer 39(9) 1925-1934 (Jun 1996), 8A1304
Reactive infiltration in porous media with thermal effects, Eur J Mech B 15(1) 119-137 (1996), 8A1307
Simplified stochastic model for infiltration into a heterogeneous soil forced by random precipitation, Adv Water Resources 19(3) 133-144 (Jun 1996), 8A1353
Application of a lattice-gas numerical algorithm to modeling water transport in fractured porous media, Transport Porous Media 22(3) 307-326 (Mar 1996), 9A1350
Averaging of unsteady flows in heterogeneous media of stationary conductivity, J Fluid Mech 310 39-60 (Mar 1996), 9A1351
Concentration fluctuations and dilution in 2D periodic heterogeneous porous media, Transport Porous Media 22(1) 91-119 (Jan 1996), 9A1352
Lattice gas simulation of Darcy flow with memory-free collisions, Transport Porous Media 22(2) 137-159 (Feb 1996), 9A1353
Mixing with first-order decay in variable-velocity porous media flow, Transport Porous Media 22(2) 161-180 (Feb 1996), 9A1354
Model for solute transport following an abrupt pressure impact in saturated porous media, Transport Porous Media 22(3) 271-285 (Mar 1996), 9A1355
One-dimensional linear waves with axial and central symmetries in saturated porous media, Transport Porous Media 22(1) 73-90 (Jan 1996), 9A1356
Properties of compressible gas flow in a porous media, Transport Porous Media 22(3) 287-306 (Mar 1996), 9A1357
Series solutions for steady unsaturated flow in irregular porous domains, Transport Porous Media 22(2) 195-214 (Feb 1996), 9A1358
Spatial-temporal averaging method for modeling transport in porous media, Transport Porous Media 22(1) 1-51 (Jan 1996), 9A1359
Stochastic model for the permeability characteristics of saturated cemented porous media undergoing freezing, Transport Porous Media 22(3) 345-357 (Mar 1996), 9A1360
Finite time of stabilization in the 1D problem of non-steady filtration, Math Methods Appl Sci 19(7) 529-554 (May 1996), 10T1408
Hydraulic conductivity of rock fractures, Transport Porous Media 23(1) 1-30 (Apr 1996), 10A1409
Note on the soil-water conductivity of a fractal soil, Transport Porous Media 23(1) 31-36 (Apr 1996), 10T1410
Transient non-Fickian dispersion theory, Transport Porous Media 23(1) 107-124 (Apr 1996), 10A1411
Unified theory of flow and deformation in double porous media, Eur J Mech A 15(2) 321-336 (1996), 10A1412
Simple waves in saturated porous media - I: The isothermal case, JSME Int J Ser B 39(2) 294-298 (May 1996), 11A920
Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, J Fluid Mech 314 163-189 (May 1996), 11A1315
Dependence of transport properties of *in situ* rocks on pore fluid composition and temperature, Surveys Geophys 17(3) 289-306 (May 1996), 11A1320
Laboratory observation of nonlocal dispersion, Transport Porous Media 23(2) 135-151 (May 1996), 11A1321
Modeling the flow of power law fluids in a packed bed using a volume-averaged equation of motion, Transport Porous Media 23(2) 175-196 (May 1996), 11A1322
Pressure and velocity of air during drying and storage of cereal grains, Transport Porous Media 23(2) 197-218 (May 1996), 11A1323
Scales of rock permeability, Surveys Geophys 17(3) 245-263 (May 1996), 11A1324
Towards realistic flow modeling - Creation and evaluation of 2D simulated porous media: An image analysis approach, Surveys Geophys 17(3) 265-287 (May 1996), 11A1325
Two approaches to modeling unstable flow and mixing of variable density fluids in porous media, Transport Porous Media 23(2) 219-236 (May 1996), 11A1326
Wavelet upscaling based on piecewise bilinear approximation of the permeability field, Transport Porous Media 23(2) 125-134 (May 1996), 11A1327
Body waves in fractured porous media saturated by two immiscible Newtonian fluids, Transport Porous Media 23(3) 259-273 (Jun 1996), 12A1341
Comparison between the two- and three-phase models for analysis of porosity formation in aluminum-rich castings, Numer Heat Transfer A 29(8) 859-867 (Jun 1996), 12A1342
Wave propagation in fractured porous media, Transport Porous Media 23(3) 237-258 (Jun 1996), 12A1343

452C. Seepage (incl pollutants)

Geotechnical Engineering (Balkema, Rotterdam, Netherlands, 1995) 1R18
Incipient fluidization of fine sands in deep seabed, J Hydraul Eng 121(9) 653-656 (Sep 1995), 1A977
Heterogeneous permeability profile and localized flow in fractured rocks (Japanese), J Soc Mat Sci Japan 44(502) 869-873 (Jul 1995), 1A1357
Modeling of the convective diffusive process with nonlinear sorption in multi-layered aquifer, Transport Porous Media 19(1) 1-13 (Apr 1995), 1A1358
Finite element in environmental engineering: Coupled thermo-hydro-mechanical processes in porous media including pollutant transport, Arch Comput Methods Eng 2(3) 1-54 (1995), 2A1215
Seepage design charts for flat bottom dams resting on heterogeneous media, Int J Numer Anal Methods Geomech 19(9) 637-651 (Sep 1995), 2A1216
Transport processes in periodic porous media, J Fluid Mech 299 1-15 (Sep 1995), 2A1217
Evaluation of an effect of a porous asphalt pavement to add an infiltration pipe on runoff control (Japanese), Proc JSCE 521(II-32) 29-38 (Aug 1995), 3A1255
Mechanism and estimation of leakage through concrete crack (Japanese), Proc JSCE 523(III-32) 83-90 (Sep 1995), 4A1302
Unsaturated water flow around obstructions simulated by 2D Rankine bodies, Adv Water Resources 18(6) 375-382 (1995), 4A1303
Transport in chemically and mechanically heterogeneous porous media - Part I: Theoretical development of region-averaged equations for slightly compressible single-phase flow, Adv Water Resources 19(1) 29-47 (1996), 4A1317
Transport in chemically and mechanically heterogeneous porous media - Part II: Comparison with numerical experiments for slightly compressible single-phase flow, Adv Water Resources 19(1) 49-60 (1996), 4T1318
Multi-phase flow modeling of air sparging, Adv Water Resources 18(6) 319-333 (1995), 4A1339
Experimental study of wave-induced flow in a porous structure, Coastal Eng 26(1-2) 77-98 (Sep 1995), 5T202
Tide-induced ground-water flow in deep confined aquifer, J Hydraul Eng 122(2) 104-110 (Feb 1996), 6A1226
Investigation on leakage characteristics of retaining wall by impedance measurement (Japanese), J Soc Mat Sci Japan 44(507) 1470-1475 (Dec 1995), 7A714
Determination of moisture diffusivities in gypsum renders, Heron 40(3) 201-215 (1995), 7A1356
Underseepage analysis of levees on two-layer and three-layer foundation, Comput Geotech 18(2) 85-107 (1996), 8A540
Finite volume method of non-orthogonal mesh for analyses of seepage problems (Chinese), J Dalian Univ Tech 35(3) 395-399 (Jun 1995), 8A1305
Integral equation analysis of coupled seepage and convective dispersion, Eng Anal Boundary Elements 16(3) 273-280 (1995), 8A1306
Reactive infiltration in porous media with thermal effects, Eur J Mech B 15(1) 119-137 (1996), 8A1307
Wave-induced seepage action on cylinder resting on deformable foundation (Chinese), J Dalian Univ Tech 35(5) 709-713 (Oct 1995), 8A1308
Experimental analysis of pore-scale flow and transport in porous media, Adv Water Resources 19(3) 163-180 (Jun 1996), 8A1325
Airflow through beds of cereal grains, Appl Math Model 20(4) 283-289 (Apr 1996), 9A1361
Homogenization for hydraulic drainage systems with periodically distributed 3D cavities, Math Mech Solids 1(1) 129-148 (Mar 1996), 9A1362
Interpretation of constant head in situ permeability tests in soil zones of finite extent, Geotechnique 46(1) 133-143 (Mar 1996), 9A1363
Contaminant transport in nonisothermal fractured porous media, J Env Eng 122(5) 416-423 (May 1996), 10A1413
Measurements of pore scale flows within and exiting ceramic foams, Exp Fluids 20(6) 433-440 (Apr 1996), 10A1414
Transient effect of battery of injection wells on seawater intrusion, J Hydraul Eng 122(5) 266-271 (May 1996), 10A1415
Study of internal heat transfer in nonuniform porous structures, Exp Thermal Fluid Sci 12(4) 426-432 (May 1996), 10T1423
Advanced Methods for Groundwater Pollution Control - Proc of Int Symp at CISM, Udine, Italy, May 1994 (Springer-Verlag, New York, 1995) 11N46
Rock Foundations - Proc of Int Workshop, Tokyo, Japan, Sept 1995 (Balkema, Rotterdam, Netherlands, 1995) 12N32
Electrical conduction and formation factor in isotropic porous media, Adv Water Resources 19(4) 225-239 (1996), 12T1356

452D. Multiphase flow in porous solids

Development and investigation of three-phase model of the mushy zone for analysis of porosity formation in solidifying castings, Int J Heat Mass Transfer 38(14) 2557-2567 (Sep 1995), 1A1359
Interface conditions for a thin film flow past a porous medium, SIAM J Math Anal 26(5) 1113-1129 (Sep 1995), 1A1360
Peculiarities of two-phase flow in coalbeds, J Brazilian Soc Mech Sci 17(1) 26-34 (1995), 2A934
Migration of salts in the unsaturated zone caused by heating, Transport Porous Media 19(2) 139-156 (May 1995), 2A1218
Stochastic analysis of multiphase flow in porous media - I: Spectral-perturbation approach, Stochastic Hydrology Hydraul 9(3) 239-267 (Sep 1995), 2T1219
Stochastic analysis of two-phase flow in porous media - I: Spectral-perturbation approach, Transport Porous Media 19(3) 233-259 (Jun 1995), 3A1256
Stochastic analysis of two-phase flow in porous media - II: Comparison between two perturbation and Monte-Carlo results, Transport Porous Media 19(3) 261-280 (Jun 1995), 3A1257
Effect of capillary forces on immiscible two-phase flow in heterogeneous porous media, Transport Porous Media 21(1) 71-93 (Oct 1995), 4A1304
Fluid distribution and pore-scale displacement mechanisms in drainage dominated three-phase flow, Transport Porous Media 20(1-2) 105-133 (Aug 1995), 4A1305
Generalized relative permeability coefficients during steady-state two-phase flow in porous media, and correlation with the flow mechanisms, Transport Porous Media 20(1-2) 135-168 (Aug 1995), 4A1306
Lattice-Boltzmann simulations of flow through Fontainebleau sandstone, Transport Porous Media 20(1-2) 3-20 (Aug 1995), 4A1307
Partitioned solution procedure for simulating water flow in a variably saturated dual-porosity medium, Adv Water Resources 18(6) 335-343 (1995), 4T1308
Simulation of capillary-dominated displacements in microtomographic images of reservoir rocks, Transport Porous Media 20(1-2) 21-35 (Aug 1995), 4A1309
Surface tension models with different viscosities, Transport Porous Media 20(1-2) 37-76 (Aug 1995), 4A1310
Three-phase flow and gravity drainage in porous media, Transport Porous Media 20(1-2) 77-103 (Aug 1995), 4A1311
Towards a theory of nonequilibrium multiphase filtration flow, Transport Porous Media 21(2) 145-162 (Nov 1995), 4A1312
Flux calculation at the interface between two rock types for two-phase flow in porous media, Transport Porous Media 21(3) 195-207 (Dec 1995), 5A1299
Large-scale averaging analysis of multiphase flow in fractured reservoirs, Transport Porous Media 21(3) 269-295 (Dec 1995), 5A1300
Pore-scale prototypes of multiphase flow in porous media, Annu Rev Fluid Mech 28 187-213 (1996), 6A945
Dissolution effects in transport in porous media, SIAM J Appl Math 56(1) 89-118 (Feb 1996), 7A1357
Dusty gas flow through porous media, Appl Math Comput 75(1) 59-73 (Mar 1996), 7A1358
Macroscopic behavior of gas flow with adsorption through a fractured porous medium, Mech Res Commun 23(1) 67-73 (Feb 1996), 7T1359
Constitutive relations for the energy transfer in nonsaturated continuous mixtures, Mech Res Commun 23(2) 117-122 (Apr 1996), 8A3
Coupling in a model porous medium geometry: Effect of fluid contact area, Appl Sci Res 55(2) 155-169 (Sep 1995), 8A1309
Experimental and numerical simulation of solute transport in heterogeneous porous media, Int J Numer Anal Methods Geomech 20(3) 155-171 (Mar 1996), 8A1310
Fluid flow in a medium distorted by a quasiconformal map can produce fractal boundaries, European J Appl Math 7(1) 1-10 (Feb 1996), 8A1311
Hydrodynamic description of a multicomponent multiphase mixture in narrow pores and thin layers, J Appl Math Mech 59(5) 745-752 (1995), 8A1312
Non-equilibrium imbibition of a porous block, European J Appl Math 7(1) 43-52 (Feb 1996), 8T1313

Simulation of immiscible multiphase flow in porous media: A focus on the capillary fringe of oil-contaminated aquifers, Transport Porous Media 22(3) 245-269 (Mar 1996), 9A1364
Nonequilibrium segregation state of a two-phase mixture in a porous column, Transport Porous Media 23(1) 83-106 (Apr 1996), 10A1416
Reservoir storage and containment of greenhouse gases, Transport Porous Media 23(1) 37-60 (Apr 1996), 10A1417
Reservoir storage and containment of greenhouse gases - II: Vapor-entry pressures, Transport Porous Media 23(1) 61-82 (Apr 1996), 10A1418
Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, J Fluid Mech 314 163-189 (May 1996), 11A1315

452E. Unsteady flow

Geotechnical Engineering (Balkema, Rotterdam, Netherlands, 1995) 1R18
Three-dimensional oscillatory flow through a porous medium with periodic permeability, Z Angew Math Mech 75(8) 599-604 (1995), 1A1361
Green element simulations of the transient nonlinear unsaturated flow equation, Appl Math Model 19(11) 675-684 (Nov 1995), 3A47
Start-up flow in a porous medium channel, Acta Mech 113(1-4) 155-168 (1995), 5A1301
Block-size determination in fractured porous media, IMA J Appl Math 55(3) 269-279 (1995), 6A1223
Time-periodic transport in heterogeneous porous media, Appl Math Comput 75(2-3) 119-138 (Mar 1996), 7A1360
Wave-induced seepage action on cylinder resting on deformable foundation (Chinese), J Dalian Univ Tech 35(5) 709-713 (Oct 1995), 8A1308
Critical damping for well oscillations: A theoretical investigation, Appl Sci Res 55(2) 107-118 (Sep 1995), 8A1314
Averaging of unsteady flows in heterogeneous media of stationary conductivity, J Fluid Mech 310 39-60 (Mar 1996), 9A1351

452F. Fluidized beds

Analysis of throughflow velocity in 2D fluidized bed bubbles, J Fluids Eng 117(2) 319-322 (Jun 1995), 1T1362
Experimental and theoretical information on solid flow in a circulating fluidized bed, J Energy Resources Tech 117(2) 133-141 (Jun 1995), 1A1363
Heat and mass transfer and modeling of combustion of low-grade solid fuels and combustible industrial wastes in a fluidized bed, Heat Transfer Res 25(6) 782-785 (1993), 1A1364
Heat exchange between a surface and an oscillating layer of a moist material, Heat Transfer Res 25(6) 794-797 (1993), 1A1365
Model of the hydrodynamic interaction between inhomogeneities in a fluidized bed, J Appl Math Mech 59(1) 111-128 (1995), 1A1366
Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expanded bed surface of a gas fluidized bed: Conditional sampling statistical analysis, Int J Heat Mass Transfer 38(17) 3263-3273 (Nov 1995), 2A1220
Interaction of water waves and seabed by the porous modium model, Acta Mech Sinica 11(2) 129-136 (1995), 3A927
Analysis of heat recovery in gas-solid moving beds using a simulation approach, Appl Thermal Eng 16(1) 89-99 (Jan 1996), 3A1258
Analytical-empirical model to predict heat transfer coefficients in circulating fluidized bed combustors, Heat and Mass Transfer Warme 30(6) 377-383 (Sep 1995), 3A1259
Effect of circulating fluidized bed particle characteristics on erosion of 1020 carbon steel, Wear 188(1-2) 33-39 (Sep 1995), 3A1260
Experimental investigation on the two-phase theory in a fluidized-bed combustor, Int J Energy Res 19(8) 699-719 (Nov 1995), 3A1261
Transverse instability of plane wavetrains in gas-fluidized beds, J Fluid Mech 303 55-81 (Nov 1995), 4A1072
Numerical uncertainty in heat conduction calculations for a tube immersed in a fluidized bed, Proc Inst Mech Eng C 209(C5) 323-336 (1995), 4A1212
Instabilities and the formation of bubbles in fluidized beds, J Fluid Mech 303 327-366 (Nov 1995), 4A1313
Three-dimensional particle image velocimetry for use in three-phase fluidization systems, Exp Fluids 19(6) 367-378 (Oct 1995), 4A1314
Heat transfer in a circulating fluidized bed with secondary air injection, Heat Transfer Res 25(7) 899-906 (1993), 5A1302
Specific features of external heat transfer in a gas-liquid fluidized bed, Heat Transfer Res 25(7) 907-912 (1993), 5A1303
Kinetic study and mathematical modeling of biofilm in a methanogenic fluidized bed (Japanese), Proc JSCE 527(II-33) 49-59 (Nov 1995), 6A1224
Simplified procedure for estimating shaking-induced pore-water pressure dissipation of layered saturated sands (Chinese), J Dalian Univ Tech 35(2) 216-221 (Apr 1995), 8A535
Modeling of the transient heat transfer across a heat transfer tube in a bubbling fluidized bed, J Heat Transfer 118(1) 258-261 (Feb 1996), 8T1315
Numerical analysis of nonlinear stability of a 2D uniform fluidized bed - Part I: Numerical check of linear stability, Fluid Dyn Res 17(5) 275-291 (Mar 1996), 8A1316
Research on heat transfer of centrifugal fluidized bed dryer (Chinese), J Dalian Univ Tech 36(2) 242-245 (Mar 1996), 9A1365
Heat transfer to developed surfaces above a fluidized bed, Heat Transfer Res 25(8) 934-937 (1993), 10A1419
Studies on a recirculating fluidized-bed incinerator-cold model, Int J Energy Res 20(4) 313-326 (Apr 1996), 10A1420
Three-phase fluidized bed for quenching steel parts, Heat Transfer Res 25(8) 925-929 (1993), 10A1421
Heat transfer in a pressurized circulating fluidized bed, Int J Heat Mass Transfer 39(13) 2711-2722 (Sep 1996), 11A1328
Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, JSME Int J Ser B 39(2) 387-394 (May 1996), 11T1329
Solids circulation in a recirculating fluidized bed under sticky conditions, Indian J Eng Mat Sci 3(3) 91-95 (Jun 1996), 11A1330
Heat transfer characteristics in a small-scale fluidized bed boiler, Int J Energy Res 20(6) 521-530 (Jun 1996), 12A1344

452G. Elastic behavior of fluid-filled solids

Experimental and numerical investigations on transient creep of porous chalk, Mech Mat 21(2) 147-158 (Aug 1995), 1A707
Finite deformation theory of hierarchically arranged porous solids - I: Balance of mass and momentum, Int J Eng Sci 33(13) 1861-1871 (Oct 1995), 2A1221
Finite deformation theory of hierarchically arranged porous solids - II: Constitutive behavior, Int J Eng Sci 33(13) 1873-1886 (Oct 1995), 2A1222
Flexure of a fluid-saturated cuboid, Acta Mech 111(3-4) 209-222 (1995), 2A1223
Changes of total porosity and skeleton volumes in elastic porous media (Polish), Arch Gornictwa 40(2) 143-157 (1995), 3A1262
Modeling added compressibility of porosity and the thermomechanical response of wet porous rock with application to Mt Helen Tuff, Int J Solids Struct 33(6) 761-793 (Mar 1996), 5A1304
Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, Fluid Dyn Res 17(2) 49-65 (Jan 1996), 5A1305
Macroscopic tensor of elastic moduli of porous medium of regular structure of noncompressible metal, Prikl Mekh (Appl Mech) 31(1) 37-43 (1995), 7A7
Effect of pore fluid compressibility on localization in elastic-plastic porous solids under undrained conditions, Int J Solids Struct 33(10) 1501-1518 (Apr 1996), 8A434
Application of multiple sorption model to prediction of sorptive and dilatometric properties of coal related to water and methane under different pressure conditions, Arch Gornictwa 40(3) 329-338 (1995), 9A1366
Integral equations for a 3D crack in an infinite, fluid-filled, poroelastic solid with zero permeability in one direction, J Appl Mech 63(1) 62-68 (Mar 1996), 9A1367
Numeric analysis of sodar echo signals, Arch Acoust 20(4) 303-309 (1995), 9A1368
Mechanics of Porous Continua (Wiley, New York, 1995) 10R39
Self-similar solutions of Barenblatt's nonlinear filtration equation, European J Appl Math 7(2) 151-167 (Apr 1996), 11A938
Influence of local fluid flow and the microstructure on elastic and anelastic rock properties, Surveys Geophys 17(3) 347-360 (May 1996), 11A1331
Surface electrical properties to spontaneous potentials in porous media, Surveys Geophys 17(3) 331-346 (May 1996), 11A1332
Growth and decay of acceleration waves in incompressible saturated poroelastic solids, Z Angew Math Mech 76(6) 341-347 (1996), 12A225
Hydration swelling of water-absorbing rocks: A constitutive model, Int J Numer Anal Methods Geomech 20(6) 403-430 (Jun 1996), 12A1345

452H. Dynamics of fluid-filled solids

Nonlinear poroelasticity for a layered medium, J Acoust Soc Am 98(2) 1138-1146 (Aug 1995), 1A1367
Parabolic equation for poro-elastic media, J Acoust Soc Am 98(3) 1645-1656 (Sep 1995), 1A1368
Analytical solution for 2D dynamic consolidation in frequency domain, Int J Numer Anal Methods Geomech 19(10) 663-682 (Oct 1995), 3A571
Analysis of interaction of impulse-like pressure wave in a fluid with deformable layer of porous material, Arch Mech 47(4) 793-812 (1995), 3A1263
Fluid substitution: Estimating changes in Vp without knowing Vs, Geophys 60(6) 1750-1755 (Dec 1995), 3A1264
Shear band localization in saturated porous media, Arch Mech 47(3) 577-599 (1995), 3A1265
Dynamic analysis of a fully-saturated porous medium accounting for geometrical and material nonlinearities, Int J Numer Methods Eng 39(1) 81-97 (Jan 1996), 5A1306
Study on soil water behavior during unsaturated sandy ground freezing and thawing under closed system (Japanese), Proc JSCE 529(III-33) 83-92 (Dec 1995), 7T699
Application of multivariate autoregressive model to groundwater behavior (Japanese), Proc JSCE 529(III-33) 93-102 (Dec 1995), 7A1361
Pressure and temperature dynamics in fluid-saturated porous-permeable rocks, Physica D 90(1-2) 154-169 (Jan 1996), 7A1362
Hydro-mechanical aspects of the sand production problem, Transport Porous Media 22(2) 225-244 (Feb 1996), 9A1369
Mechanics of Porous Continua (Wiley, New York, 1995) 10R39

452I. Thermodynamics, heat transfer, and combustion

Stability of vertical thermal boundary-layer flow in a porous medium, Eur J Mech B 14(4) 395-407 (1995), 1A1071
Measuring and modeling the thermophysical properties of porous alpha-two titanium aluminide compacts, Exp Heat Transfer 8(1) 57-71 (Mar 1995), 1A1158
Convective heat transfer in an annular porous layer with centrifugal force field, Numer Heat Transfer A 28(3) 375-388 (Sep 1995), 1A1218
Numerical study of transient natural convection about a corrugated plate embedded in an enclosed porous medium, Int J Numer Methods Heat & Fluid Flow 5(7) 629-645 (Sep 1995), 1A1219
Simultaneous heat and mass transfer in packed bed catalytic reactors, J Thermophys Heat Transfer 9(3) 524-530 (Sep 1995), 1A1220
Heat transfer in the inverted meniscus type evaporator at high heat fluxes, Int J Heat Mass Transfer 38(16) 3091-3101 (Nov 1995), 1A1249
Scattering characteristics of fibrous media containing closely spaced parallel fibers, J Thermophys Heat Transfer 9(3) 403-409 (Sep 1995), 1A1270
Viscous air flow pattern in the Stefan diffusion tube: Application to the mutual diffusion in a porous media, Transport Porous Media 19(1) 15-36 (Apr 1995), 1A1308
Coupled model for water flow, airflow and heat flow in deformable porous media, Int J Numer Methods Heat & Fluid Flow 5(6) 531-547 (Aug 1995), 1A1369
Effect of anisotropic permeability on free convective boundary layer flow in porous media, Transport Porous Media 19(1) 79-92 (Apr 1995), 1A1370
Effective thermal conductivity of a saturated porous medium, J Thermophys Heat Transfer 9(3) 573-575 (Sep 1995), 1T1371
Performance evaluation of porous radiant gas burners, Exp Heat Transfer 8(1) 73-95 (Mar 1995), 1A1372
Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, Int J Heat Mass Transfer 38(16) 2935-2943 (Nov 1995), 1A1373
Influence of surface mass flux on vortex instability of a horizontal mixed convection flow in a saturated porous medium, Int J Heat Mass Transfer 38(17) 3305-3311 (Nov 1995), 2A1106
Migration of salts in the unsaturated zone caused by heating, Transport Porous Media 19(2) 139-156 (May 1995), 2A1218
Analytical solution for heating a 2D porous-packed bed by a non-thermal equilibrium fluid flow, Appl Sci Res 55(1) 83-93 (Jul 1995), 3A1068
Analytical solution for transient laminar fully developed free convection in open-ended vertical eccentric porous annuli, J Heat Transfer 117(3) 762-764 (Aug 1995), 3T1069
Early initiation of natural convection in an open porous layer due to the presence of solid conductive inclusions, J Heat Transfer 117(3) 733-739 (Aug 1995), 3A1070
Free convection heat transfer of non-Newtonian fluids over axisymmetric and 2D bodies of arbitary shape embedded in a fluid-saturated porous medium, Int J Heat Mass Transfer 39(1) 203-210 (Jan 1996), 3A1071
Free convection in a horizontal enclosure partly filled with a porous medium, J Thermophys Heat Transfer 9(4) 797-800 (Dec 1995), 3T1072
Investigation of non-Darcian forced convection in an asymmetrically heated sintered porous channel, J Heat Transfer 117(3) 725-732 (Aug 1995), 3A1073
Natural convection in horizontal-layered porous annuli, J Thermophys Heat Transfer 9(4) 792-795 (Dec 1995), 3T1074
Comparative study of porous media models in a differentially heated square cavity using a FEM, Int J Numer Methods Heat & Fluid Flow 5(8) 735-752 (Oct 1995), 3A1266
Study of crack appearances in porous media combustion, Combust Sci Tech 106(1-3) 137-152 (May 1995), 3A1267
Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part I: The isotropic model, Appl Math Model 19(11) 654-667 (Nov 1995), 3A1268
Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part II: The anisotropic model, Appl Math Model 19(11) 668-674 (Nov 1995), 3A1269
Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, Int J Heat Mass Transfer 39(3) 615-630 (Feb 1996), 4A1166
Convective heat transfer in axisymmetric porous bodies, Int J Numer Methods Heat & Fluid Flow 5(9) 829-837 (Nov 1995), 4A1167
Convective heat transfer in porous and overlying fluid layers heated from below, Int J Heat Mass Transfer 39(2) 319-329 (Jan 1996), 4A1168
Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, Int J Heat Mass Transfer 39(2) 347-354 (Jan 1996), 4A1169
Heat transfer from a hot rock to water flowing through a crack, Heat Transfer Japan Res 23(7) 658-673 (1994), 4A1170
Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, Numer Heat Transfer A 28(5) 635-645 (Nov 1995), 4A1171
Transient natural convection of water near its density extremum in a rectangular cavity filled with porous medium, Numer Heat Transfer A 28(5) 619-633 (Nov 1995), 4A1172
Double-diffusive convection in an inclined slot filled with porous medium, Eur J Mech B 14(5) 629-652 (1995), 4A1243
Analytical approach to coupled heat and moisture transport in soil, Transport Porous Media 20(3) 281-304 (Sep 1995), 4A1315
Non-Darcy natural convection from a vertical wavy surface in a porous medium, Transport Porous Media 20(3) 223-234 (Sep 1995), 4A1316
Transport in chemically and mechanically heterogeneous porous media - Part I: Theoretical development of region-averaged equations for slightly compressible single-phase flow, Adv Water Resources 19(1) 29-47 (1996), 4A1317
Transport in chemically and mechanically heterogeneous porous media - Part II: Comparison with numerical experiments for slightly compressible single-phase flow, Adv Water Resources 19(1) 49-60 (1996), 4T1318
New numerical scheme for convective dominated heat transfer in a porous medium with strong temperature gradients, Transport Porous Media 21(2) 101-122 (Nov 1995), 4A1320
Local multigrid refinement method for natural convection in fissured porous media, Numer Heat Transfer B 28(4) 455-467 (Dec 1995), 5A1152
Mixed convection in a vertical tube partially filled with porous medium, Numer Heat Transfer A 28(6) 739-754 (Dec 1995), 5A1153
Non-Darcian forced convection analysis in an annulus partially filled with a porous material, Numer Heat Transfer A 28(6) 707-722 (Dec 1995), 5A1154
Convective heat exchange and thermomechanics of cooling laser mirrors, Heat Transfer Res 25(7) 884-887 (1993), 5A1157
Experimental study of boiling on a wicked surface, Int J Heat Mass Transfer 39(4) 771-777 (Mar 1996), 5A1178
Two-dimensional orthotropic model for simulating wood drying processes, Appl Math Model 20(1) 60-81 (Jan 1996), 5A1179
Emissions of CO and NO from a two stage porous media burner, Combust Sci Tech 107(1-3) 81-91 (Jul 1995), 5A1226
Computation of permeability and dispersivities of solute or heat in periodic porous media, Int J Heat Mass Transfer 39(4) 661-676 (Mar 1996), 5A1307
Forced convection from an isolated heat source in a channel with porous medium, Int J Heat Fluid Flow 16(6) 527-535 (Dec 1995), 6A1098
Natural convection suppression by azimuthal partitions in a horizontal porous annulus, Numer Heat Transfer A 29(1) 65-18 (Jan 1996), 6A1099
Numerical simulation of the transient moisture transfer through porous insulation, Int J Heat Mass Transfer 39(5) 995-1004 (Mar 1996), 6A1191

Block-size determination in fractured porous media, IMA J Appl Math 55(3) 269-279 (1995), 6A1223
Heat transfer in a 3D flow through a porous medium with periodic permeability, Z Angew Math Mech 75(12) 950-952 (1995), 6T1225
Amplitude effect on convection induced by time-periodic horizontal heating, Int J Heat Mass Transfer 39(6) 1121-1133 (Apr 1996), 7A1209
Mixed convection from a vertical cylinder embedded in a porous medium: Non-Darcy model, Int J Heat Mass Transfer 39(6) 1141-1148 (Apr 1996), 7A1229
Mixed convection in a vertical parallel-plate channel partially filled with porous media of high permeability, Int J Heat Mass Transfer 39(7) 1331-1342 (May 1996), 7A1230
Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, Int J Heat Mass Transfer 39(7) 1363-1378 (May 1996), 7A1231
Modeling the effective thermal conductivity of random packing of spheres through densification, Int J Heat Mass Transfer 39(7) 1343-1350 (May 1996), 7A1247
Results on thermoelasticity for porous piezoelectric materials, Mech Res Commun 23(1) 1-10 (Feb 1996), 7T1288
Pressure and temperature dynamics in fluid-saturated porous-permeable rocks, Physica D 90(1-2) 154-169 (Jan 1996), 7A1362
Non-Darcy mixed convection along nonisothermal vertical surfaces in porous media, Int J Heat Mass Transfer 39(6) 1157-1164 (Apr 1996), 7A1363
Convection and stability in rotating porous layer with alternating direction of the centrifugal body force, Int J Heat Mass Transfer 39(8) 1639-1647 (May 1996), 8A1084
Thermal stability of horizontally superposed porous and fluid layers in a rotating system, Int J Heat Mass Transfer 39(9) 1847-1857 (Jun 1996), 8A1087
Analysis of free surface momentum and energy transport in porous media, Numer Heat Transfer A 29(3) 281-296 (Feb 1996), 8A1110
Effect of an electromagnetic field on natural convection in an inclined porous layer, Int J Heat Fluid Flow 17(1) 36-44 (Feb 1996), 8A1111
Infiltration and solidification-remelting of a pure metal in a 2D porous preform, J Heat Transfer 118(1) 173-180 (Feb 1996), 8A1112
Influence of morphology upon two-temperature statements for convective transport in porous media, J Enhanced Heat Transfer 3(2) 129-145 (1996), 8A1113
Stochastic modeling of heating of a 1D porous slab by a flow of incompressible fluid, Acta Mech 114(1-4) 39-50 (1996), 8A1114
Experimental study of convective boiling in a porous medium: Temperature field analysis, J Heat Transfer 118(1) 230-233 (Feb 1996), 8T1151
R113 boiling heat transfer modeling on porous metallic matrix surfaces, Int J Heat Fluid Flow 17(1) 45-51 (Feb 1996), 8A1152
Modeling of instantaneous temperature field in reactor (Chinese), J Dalian Univ Tech 35(4) 520-524 (Aug 1995), 8A1165
Correlation of measured and computed radiation intensity exiting a packed bed, J Heat Transfer 118(1) 94-102 (Feb 1996), 8A1179
Momentum and heat transfer by forced convection in fixed beds of granular active carbon, Appl Thermal Eng 16(5) 419-427 (May 1996), 8A1195
Influences of external drying condition on drying process of porous medium (Chinese), J Dalian Univ Tech 35(4) 516-519 (Aug 1995), 8A1203
Jet impingement drying of a moist porous solid, Int J Heat Mass Transfer 39(9) 1911-1923 (Jun 1996), 8A1205
Numerical analysis of heat and mass transfer in drying and pyrolysis of porous media, Numer Heat Transfer A 29(4) 331-355 (Mar 1996), 8A1206
Appraisal of 1D analytical models for the packed bed thermal storage systems utilizing sensible heat storage materials, J Energy Resources Tech 118(1) 44-49 (Mar 1996), 8A1213
Heat transfer in a high-temperature packed bed thermal energy storage system: Roles of radiation and intraparticle conduction, J Energy Resources Tech 118(1) 50-57 (Mar 1996), 8A1216
Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, Int J Heat Mass Transfer 39(8) 1687-1695 (May 1996), 8A1247
Reactive infiltration in porous media with thermal effects, Eur J Mech B 15(1) 119-137 (1996), 8A1307
Analysis of heating a 3D porous bed utilizing the two energy equation model, Heat and Mass Transfer Warme 31(3) 173-177 (Feb 1996), 8A1317
Closure statements on the Brinkman-Forchheimer-extended Darcy model, Int J Heat Fluid Flow 17(1) 34-35 (Feb 1996), 8A1318
Computational investigation on combustion of a carbon packed bed in stagnation flow field (Chinese), J Dalian Univ Tech 35(3) 362-366 (Jun 1995), 8A1319
Instability in a combined heat and mass transfer problem in porous media, Chaos Solitons Fractals 7(1) 109-123 (Jan 1996), 8A1320
Stochastic model for the permeability characteristics of saturated cemented porous media undergoing freezing, Transport Porous Media 22(3) 345-357 (Mar 1996), 9A1360
Research on heat transfer of centrifugal fluidized bed dryer (Chinese), J Dalian Univ Tech 36(2) 242-245 (Mar 1996), 9A1365
Diffuse approximation method for solving natural convection in porous media, Transport Porous Media 22(2) 215-223 (Feb 1996), 9A1370
Natural convection from a horizontal permeable surface in a porous medium: Numerical and asymptotic solutions, Transport Porous Media 22(3) 327-344 (Mar 1996), 9A1371
Natural convection from a vertical plate with a prescribed surface heat flux in porous media, Transport Porous Media 22(2) 181-193 (Feb 1996), 9A1372
Convective heat transfer from a horizontal cylinder in a porous medium and a narrow slot, Heat Transfer Res 25(8) 970-974 (1993), 10A1268
Heat transfer analysis in a heated mold during the impregnation phase of the resin transfer molding process, J Mat Processing Manuf Sci 4(2) 81-104 (Oct 1995), 10A1269
Thermal and hydraulic characteristics of microchannel porous structures, Heat Transfer Res 25(8) 945-949 (1993), 10A1270
Thermal convection in anisotropic porous insulation, Heat Transfer Res 25(8) 986-990 (1993), 10A1271
Thermal enhancement in laminar channel flow with a porous block, Int J Heat Mass Transfer 39(10) 2165-2175 (Jul 1996), 10A1272
Methods of liquid feeding to a capillary-porous coated surface, Heat Transfer Res 25(8) 957-961 (1993), 10A1285
Effects of liquid-vapor coupling and non-Darcian transport on asymmetrical disk-shaped heat pipes, Int J Heat Mass Transfer 39(10) 2095-2113 (Jul 1996), 10A1319
Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, Heat Transfer Res 25(8) 950-953 (1993), 10A1352
Experimental research on transient heat transfer in sand, Acta Mech Sinica 12(1) 39-46 (1996), 10A1422
Study of internal heat transfer in nonuniform porous structures, Exp Thermal Fluid Sci 12(4) 426-432 (May 1996), 10T1423
Effect of an external magnetic field on buoyancy-driven flow in a shallow porous cavity, Numer Heat Transfer A 29(6) 625-638 (May 1996), 11A1151
Enhanced heat transfer in round tubes with porous inserts, Int J Heat Fluid Flow 17(2) 124-129 (Apr 1996), 11A1152
Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, Int J Heat Mass Transfer 39(12) 2545-2557 (Aug 1996), 11A1153
Fully-developed forced-convection heat transfer in cylindrical packed beds with constant wall heat fluxes, JSME Int J Ser B 39(2) 395-401 (May 1996), 11T1154
Natural convection for the melting of ice in porous media in a rectangular enclosure, Int J Heat Mass Transfer 39(11) 2333-2348 (Jul 1996), 11A1155
Non-Darcy effects in natural convection heat transfer in a vertical porous annulus, J Heat Transfer 118(2) 502-505 (May 1996), 11T1156
Perturbation solution for a nonthermal equilibrium fluid flow through a 3D sensible heat storage packed bed, J Heat Transfer 118(2) 508-510 (May 1996), 11T1157
Experimental study of constant-pressure steam injection and transient condensing flow in an air-saturated porous medium, J Heat Transfer 118(2) 449-454 (May 1996), 11A1185
Pore-network study of bubble growth in porous media driven by heat transfer, J Heat Transfer 118(2) 455-462 (May 1996), 11A1186
Stability of free convection in a rotating porous layer distant from the axis of rotation, Transport Porous Media 23(2) 153-173 (May 1996), 11A1333
Turbulence model for flow through porous media, Int J Heat Mass Transfer 39(13) 2803-2809 (Sep 1996), 11A1334
Forced convection steam condensation experiments within thin porous coatings, Int J Heat Mass Transfer 39(14) 2937-2945 (Sep 1996), 12A1238
Influence of free convection on soil salinization in arid regions, Transport Porous Media 23(3) 275-301 (Jun 1996), 12A1346
Relative permeability relations: A key factor for a drying model, Transport Porous Media 23(3) 303-335 (Jun 1996), 12A1347
Stagnation point flow of a chemically reactive fluid in a catalytic porous bed, Int J Heat Mass Transfer 39(14) 3003-3019 (Sep 1996), 12A1348
Thermal radiation effect on mixed convection from horizontal surfaces in saturated porous media, Transport Porous Media 23(3) 357-363 (Jun 1996), 12A1349

452K. Reservoir engineering

Integral transform methodology for convection-diffusion problems in petroleum reservoir engineering, Int J Heat Mass Transfer 38(18) 3359-3367 (Dec 1995), 2A1224
Solution of pressure diffusion in radially composite reservoirs, Transport Porous Media 19(3) 199-232 (Jun 1995), 3A1270
Unsaturated water flow around obstructions simulated by 2D Rankine bodies, Adv Water Resources 18(6) 375-382 (1995), 4A1303
Effective properties for flow calculations, Transport Porous Media 20(1-2) 169-196 (Aug 1995), 4A1319
Flow pattern analysis for a well defined by point sinks, Transport Porous Media 21(3) 209-223 (Dec 1995), 5A1297
Aquifer discharge-recharge as a solution to regional rising groundwater problems, Adv Eng Software 23(3) 173-176 (1995), 5A1308
Tide-induced ground-water flow in deep confined aquifer, J Hydraul Eng 122(2) 104-110 (Feb 1996), 6A1226
Critical damping for well oscillations: A theoretical investigation, Appl Sci Res 55(2) 107-118 (Sep 1995), 8A1314
Convergence of a numerical method in mathematical spontaneous potential well-logging, European J Appl Math 7(1) 31-41 (Feb 1996), 8A1321
Dimensional analysis of pore scale and field scale immiscible displacement, Transport Porous Media 22(1) 53-72 (Jan 1996), 9A1373
Finite element analysis of dam-reservoir systems using an exact far-boundary condition, Comput Struct 60(5) 751-762 (Jul 1996), 12A852

452L. Flow stability

Instabilities and the formation of bubbles in fluidized beds, J Fluid Mech 303 327-366 (Nov 1995), 4A1313
Numerical analysis of nonlinear stability of a 2D uniform fluidized bed - Part 1: Numerical check of linear stability, Fluid Dyn Res 17(5) 275-291 (Mar 1996), 8A1316

452M. Non-Newtonian fluids

Homogenization of a polymer flow through a porous medium, Nonlinear Anal 26(7) 1221-1253 (Apr 1996), 8T1322
Spectral collocation-domain decomposition method for viscoelastic flow simulations in model porous geometries, Comput Methods Appl Mech Eng 129(1-2) 9-28 (Jan 1996), 8A1323
Airflow through beds of cereal grains, Appl Math Model 20(4) 283-289 (Apr 1996), 9A1361

452Y. Computational techniques

Coupled model for water flow, airflow and heat flow in deformable porous media, Int J Numer Methods Heat & Fluid Flow 5(6) 531-547 (Aug 1995), 1A1369
Bi-orthogonality relationships involving porous media, J Acoust Soc Am 98(2) 1199-1203 (Aug 1995), 1A1374
Transport processes in periodic porous media, J Fluid Mech 299 1-15 (Sep 1995), 2A1217
Averaging of the system of equations of motion of a viscous fluid in a porous medium, J Appl Math Mech 59(2) 321-324 (1995), 2A1225
Indirect boundary integral equation method for poroelasticity, Int J Numer Anal Methods Geomech 19(9) 587-614 (Sep 1995), 2A1226
Finite volume method using Voronoi grids for the solution of miscible displacement in porous media, J Brazilian Soc Mech Sci 16(4) 415-422 (1994), 3A1253
Shear band localization in saturated porous media, Arch Mech 47(3) 577-599 (1995), 3A1265
Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part I: The isotropic model, Appl Math Model 19(11) 654-667 (Nov 1995), 3A1268
Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part II: The anisotropic model, Appl Math Model 19(11) 668-674 (Nov 1995), 3A1269
Two-dimensional interaction of a wetting front with an impervious layer: Analytical and numerical solutions, Transport Porous Media 20(3) 251-263 (Sep 1995), 4A1301
Transport in chemically and mechanically heterogeneous porous media - Part II: Comparison with numerical experiments for slightly compressible single-phase flow, Adv Water Resources 19(1) 49-60 (1996), 4T1318
New numerical scheme for convective dominated heat transfer in a porous medium with strong temperature gradients, Transport Porous Media 21(2) 101-122 (Nov 1995), 4A1320
Superconvergence results for Galerkin methods wave propagation in various porous media, Numer Methods PDE 12(1) 99-122 (Jan 1996), 5A183
Analysis of perturbation based methods for the treatment of parameter uncertainty in numerical groundwater models, Transport Porous Media 21(3) 225-240 (Dec 1995), 5A1309
ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, Numer Heat Transfer B 29(1) 91-112 (Feb 1996), 6A1104
Minimization of grid orientation effects in simulation of oil recovery processes through use of an unsplit higher order scheme, Numer Methods PDE 12(2) 161-189 (Mar 1996), 7A1364
Multiscale flow and deformation in hydrophilic swelling porous media, Int J Eng Sci 34(3) 313-338 (Feb 1996), 7A1365
Numerical analysis of a mixed FEM for a flow-transport problem, Numer Methods PDE 12(2) 221-233 (Mar 1996), 7A1366
Finite volume method of non-orthogonal mesh for analyses of seepage problems (Chinese), J Dalian Univ Tech 35(3) 395-399 (Jun 1995), 8A1305
Global interpolation function based DRBEM applied to Darcy's flow in heterogeneous media, Eng Anal Boundary Elements 16(3) 281-285 (1995), 8A1324
Application of a lattice-gas numerical algorithm to modeling water transport in fractured porous media, Transport Porous Media 22(3) 307-326 (Mar 1996), 9A1350
Natural convection from a horizontal permeable surface in a porous medium: Numerical and asymptotic solutions, Transport Porous Media 22(3) 327-344 (Mar 1996), 9A1371
Approximate method for a 2D parabolic free boundary problem, Comput Methods Appl Mech Eng 129(3) 305-310 (Jan 1996), 9A1374
Aspects of a nonlinear convection-diffusion equation arising in heat-induced moisture transport in porous media, Int J Eng Sci 34(4) 425-436 (Mar 1996), 9A1375
Preferential flow paths in porous structures - I: Numerical simulation, Bull Polish Acad Sci Tech Sci 43(4) 471-484 (1995), 9A1376
Characteristics - Galerkin and mixed FE approximation of contamination by compressible nuclear waste-disposal in porous media, Numer Methods PDE 12(3) 315-332 (May 1996), 9A1432
Silent boundary conditions for wave propagation in saturated porous media, Int J Numer Anal Methods Geomech 20(4) 253-273 (Apr 1996), 10A1424
Stokes flow past a composite porous spherical shell with a solid core, Arch Mech 48(2) 311-323 (1996), 10A1425
Asymptotic behavior of semidiscrete FE approximations of Biot's consolidation problem, SIAM J Numer Anal 33(3) 1065-1083 (Jun 1996), 12A1350
Basic theorems in elastostatics of micropolar materials with voids, J Comput Appl Math 70(1) 115-126 (Jun 1996), 12A1351
Finite element analyses of anisotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, Int J Numer Anal Methods Geomech 20(6) 381-401 (Jun 1996), 12A1352
Finite element approximation of diffusion equations with convolution terms, Math Comput 65(215) 1019-1037 (Jul 1996), 12A1353
Higher-order Godunov scheme coupled with dynamic local grid refinement for flow in a porous medium, Comput Methods Appl Mech Eng 131(3-4) 287-308 (May 1996), 12A1354
Upscaling permeability: Error analysis for renormalization, Transport Porous Media 23(3) 337-354 (Jun 1996), 12A1355

452Z. Experimental techniques

Correlation between tortuosity and transmission coefficient of porous media at high frequency, J Acoust Soc Am 98(2) 1228-1230 (Aug 1995), 1A1375
Thermal diffusivity and porosity of solid materials by electromagnetic ultrasonic technique - Part 2, Heat Transfer Japan Res 23(6) 556-574 (1994), 2A1227
Tensiometer reaction related to its filter dimensions, Transport Porous Media 20(3) 235-250 (Sep 1995), 4A1299
Experimental analysis of pore-scale flow and transport in porous media, Adv Water Resources 19(3) 163-180 (Jun 1996), 8A1325
Preferential flow paths in porous structures - II: Experiments, Bull Polish Acad Sci Tech Sci 43(4) 485-491 (1995), 9A1377
Holographic interferometry study of heat and mass transfer of liquid media in capillaries, Heat Transfer Res 25(8) 954-956 (1993), 10A1357

Measurements of pore scale flows within and exiting ceramic foams, Exp Fluids 20(6) 433-440 (Apr 1996), 10A1414
Electrical conduction and formation factor in isotropic porous media, Adv Water Resources 19(4) 225-239 (1996), 12T1356

454. GEOMECHANICS

454C. Tectonics

Hypocentral parameters and velocity estimation in the western Swiss Alps by simultaneous inversion of P- and S-wave data, Bull Seismol Soc Am 86(1A) 32-42 (Feb 1996), 11A1335
Tectonics and seismicity of the southern Washington Cascade range, Bull Seismol Soc Am 86(1A) 1-18 (Feb 1996), 11A1336
SaPmp phase in regional wave propagation, Bull Seismol Soc Am 86(1A) 133-143 (Feb 1996), 11A1357
Mechanics problems in Geodynamics - Part 2, Pure Appl Geophys 146(3-4) 407-740 (May 1996), 12A1357

454D. Seismology

Wavelets in Geophysics - Wavelet Analysis and Its Applications Series, Vol 4 (Academic, San Diego, CA, 1994) 1N37
Introduction to Mining Seismology - International Geophysics Series, Vol 55 (Academic, San Diego, CA, 1994) 1N38
Accuracy study of velocity estimation in 3D layered models, Geophys 60(5) 1567-1574 (Oct 1995), 1A1376
Analytic aspects of a 2.5D wave equation, Geophys 60(5) 1536-1540 (Oct 1995), 1A1377
Application of neural network to processing of seismic reflection data (Japanese), J Soc Mat Sci Japan 44(502) 880-884 (Jul 1995), 1A1378
Improvement in accuracy of seismic traveltime tomography by adding a priori information as constraints on velocity reconstruction (Japanese), J Soc Mat Sci Japan 44(502) 874-879 (Jul 1995), 1A1379
Proposal of vector frequency response function of ground based on vector spectrum and its application (Japanese), Proc JSCE 519(I-32) 161-173 (Jul 1995), 1A1380
Spatial correlation of earthquake ground motion based on dense array records (Japanese), Proc JSCE 519(I-32) 185-197 (Jul 1995), 1T1381
Velocity analysis for transversely isotropic media, Geophys 60(5) 1550-1566 (Oct 1995), 1A1382
Complex double-couple source mechanism for the M_S 7.2 1929 Grand Banks earthquake, Bull Seismol Soc Am 85(4) 1003-1020 (Aug 1995), 2A1228
Constraints on the June 29, 1992, Little Skull Mountain, Nevada, earthquake sequence provided by robust hypocenter estimates, Bull Seismol Soc Am 85(4) 1039-1049 (Aug 1995), 2A1229
Efficient method for computing Green's functions for a layered half-space with sources and receivers at close depths - Part 2, Bull Seismol Soc Am 85(4) 1080-1093 (Aug 1995), 2A1230
Moment-tensor inversions for local earthquakes using surface waves recorded at TERRAscope, Bull Seismol Soc Am 85(4) 1021-1038 (Aug 1995), 2A1231
Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, Bull Seismol Soc Am 85(4) 963-985 (Aug 1995), 2A1232
Phase and spectral ratio discrimination between NTS earthquakes and explosions - Part I: Empirical observations, Bull Seismol Soc Am 85(4) 1050-1067 (Aug 1995), 2A1233
Ribbon Cliff landslide, Washington, and the earthquake of December 14, 1872, Bull Seismol Soc Am 85(4) 986-1002 (Aug 1995), 2A1234
Seismogram synthesis for multi-layered media with irregular interfaces by global generalized reflection-transmission matrices method - II: Applications for 2D SH case, Bull Seismol Soc Am 85(4) 1094-1106 (Aug 1995), 2A1235
Teleseismic waveform modeling including geometrical effects of superficial geological structures near to seismic sources, Bull Seismol Soc Am 85(4) 1068-1079 (Aug 1995), 2A1236
1986 Crested Butte earthquake swarm and its implications for seismogenesis in Colorado, Bull Seismol Soc Am 85(5) 1495-1500 (Oct 1995), 3A1271
Anatomy of regional phases and source characterization of the Soviet joint verification experiment, underground nuclear expansion, Bull Seismol Soc Am 85(5) 1416-1431 (Oct 1995), 3A1272
Azimuth and slowness deviations from the GERESS regional array, Bull Seismol Soc Am 85(5) 1456-1463 (Oct 1995), 3A1273
Correlation between the telluric and seismic activity, Acta Geophys Polonica 43(1) 33-48 (1995), 3A1274
Eastern North American earthquakes prior to 1660, Bull Seismol Soc Am 85(5) 1398-1415 (Oct 1995), 3A1275
Equations governing convection in earth's core and the geodynamo, Geophys Astrophys Fluid Dyn 79(1-4) 1-97 (Aug 1995), 3T1276
Implications for upper-mantle structure in the western US from complete far-regional seismograms, Bull Seismol Soc Am 85(5) 1432-1444 (Oct 1995), 3A1277
Reliable automatic detection of long-period volcanic earthquakes at Long Valley Caldera, California, Bull Seismol Soc Am 85(5) 1518-1522 (Oct 1995), 3A1278
Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, Bull Seismol Soc Am 85(5) 1388-1397 (Oct 1995), 3A1279
Single-station spectral discrimination using coda waves, Bull Seismol Soc Am 85(5) 1464-1474 (Oct 1995), 3A1280
Waveform inversion for determining the boundary shape of a basin structure, Bull Seismol Soc Am 85(5) 1445-1455 (Oct 1995), 3A1281
Limits of linear moment tensor inversion of surface wave spectra, Pure Appl Geophys 145(2) 235-257 (Nov 1995), 4A1321
Unstable propagation of a phase transition in a solid, Mech Mat 21(4) 313-323 (Nov 1995), 4A1322
Frequency distribution of geologically determined slip rates for normal faults in the western United States, Bull Seismol Soc Am 85(6) 1867-1872 (Dec 1995), 6A1227
Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, Bull Seismol Soc Am 85(6) 1730-1738 (Dec 1995), 6A1228
Lateral variation in crustal structure of the Northern Tibetan plateau inferred from teleseismic receiver functions, Bull Seismol Soc Am 85(6) 1531-1540 (Dec 1995), 6A1229
Reexamination of the Bucaramanga, Columbia, earthquake nest, Bull Seismol Soc Am 85(6) 1622-1634 (Dec 1995), 6A1230
Simulation of 3D elastic wave propagation in the Salt Lake Basin, Bull Seismol Soc Am 85(6) 1688-1710 (Dec 1995), 6A1231
Slant stacks of refraction data from Maine: Effects of lateral variations in velocity structure, Bull Seismol Soc Am 85(6) 1541-1559 (Dec 1995), 6A1232
Source characteristics of the January 17, 1994 Northridge, California, earthquake from regional broadband modeling, Bull Seismol Soc Am 85(6) 1591-1603 (Dec 1995), 6A1233
Source characterization and fault plane determinations for $M_{N,E}$ = 1.2 to 4.4 earthquakes in the Charlevoix Seismic Zone, Quebec, Canada, Bull Seismol Soc Am 85(6) 1604-1621 (Dec 1995), 6A1234
Source parameters of aftershocks of the 1991 Costa Rica and 1992 Cape Mendocino, California, earthquakes from inversion of local amplitude ratios and broadband waveforms, Bull Seismol Soc Am 85(6) 1560-1575 (Dec 1995), 6A1235
Source parameters of the 23 April 1992 M 6.1 Joshua Tree, California, earthquake and its aftershocks: Empirical Green's function analysis of GEOS and TERRAscope data, Bull Seismol Soc Am 85(6) 1576-1590 (Dec 1995), 6A1236
Why the L_g phase does not traverse oceanic crust, Bull Seismol Soc Am 85(6) 1665-1678 (Dec 1995), 6A1237
Coherency model for spatially varying ground motions, Earthquake Eng Struct Dyn 25(1) 99-111 (Jan 1996), 6A1263
Evaluation of local site effects and their removal from borehole records observed in the Sendai region, Japan, Bull Seismol Soc Am 85(6) 1770-1789 (Dec 1995), 6A1264
Microearthquake S-wave observations from 0 to 1 km in the Varian well at Parkfield, California, Bull Seismol Soc Am 85(6) 1805-1820 (Dec 1995), 6A1265
Nonlinear behavior of soil sediments identified by using borehole records observed at the Ashigara Valley, Japan, Bull Seismol Soc Am 85(6) 1821-1834 (Dec 1995), 6A1266
Scheme of random summation of an empirical Green's function to estimate ground motions from future large earthquakes, Bull Seismol Soc Am 85(6) 1635-1647 (Dec 1995), 6A1267
Shaking intensity thresholds for rock falls and slides: Evidence from 1987 Whittier Narrows and Superstition Hills earthquake strong-motion records, Bull Seismol Soc Am 85(6) 1739-1757 (Dec 1995), 6A1268
Site effect observations from broadband arrays, Bull Seismol Soc Am 85(6) 1758-1769 (Dec 1995), 6A1269
Site-dependent attenuation relations of seismic motion parameters at depth using borehole data, Bull Seismol Soc Am 85(6) 1790-1804 (Dec 1995), 6A1270
IUTAM-IASPEI Symposium on Mechanical Problems in Geodynamics, Pure Appl Geophys 145(3-4) 404-787 (Dec 1995), 7A1367
AVO correction for scalar waves in the case of a thinly layered reflector overburden, Geophys 61(2) 520-528 (Apr 1996), 8A1326
Experimental investigation of soil seismic deformation property (Chinese), J Dalian Univ Tech 36(1) 76-82 (Jan 1996), 8A1327
P-wave signatures and notation for transversely isotropic media: An overview, Geophys 61(2) 467-483 (Apr 1996), 8A1328
Direct method of calculating interval velocities and layer thicknesses from wide-angle seismic reflection times, Pure Appl Geophys 146(2) 343-363 (Mar 1996), 10A1426
Hypocentral parameters and velocity estimation in the western Swiss Alps by simultaneous inversion of P- and S-wave data, Bull Seismol Soc Am 86(1A) 32-42 (Feb 1996), 11A1335
Array analysis of core-phase caustic signals from underground nuclear explosions: Discrimination of closely spaced explosions, Bull Seismol Soc Am 86(1A) 159-171 (Feb 1996), 11A1337
Fault model with variable slip duration for the 1989 Loma Prieta, California, earthquake determined from strong-ground-motion data, Bull Seismol Soc Am 86(1A) 122-132 (Feb 1996), 11A1338
High-frequency shape of the source spectrum for earthquakes in eastern and western Canada, Bull Seismol Soc Am 86(1A) 106-112 (Feb 1996), 11A1339
Horizontal-to-vertical spectral ratio and geological conditions: The case of Garner Valley Downhole Array in southern California, Bull Seismol Soc Am 86(2) 306-319 (Apr 1996), 11A1340
July 12, 1993 Hokkaido-Nansei-Oki, Japan, earthquake: Effects of source complexity on surface-wave radiation, Bull Seismol Soc Am 86(2) 505-518 (Apr 1996), 11A1341
Kernel estimation methods for seismic hazard area source modeling, Bull Seismol Soc Am 86(2) 353-362 (Apr 1996), 11A1342
Low-velocity fault-zone guided waves: Numerical investigations of trapping efficiency, Bull Seismol Soc Am 86(2) 371-378 (Apr 1996), 11A1343
Magnitude distributions and slip scaling of heterogeneous seismic sources, Bull Seismol Soc Am 86(2) 498-504 (Apr 1996), 11A1344
Major earthquakes in Mexicali Valley, Mexico, and fluid extraction at Cerro Prieto Geothermal Field, Bull Seismol Soc Am 86(1A) 93-105 (Feb 1996), 11A1345
Northridge, California earthquake of January 17, 1994, Bull Seismol Soc Am 86(1B) 1-361 (Feb 1996), 11A1346
Propagation characteristics of Lg across the Tibetan Plateau, Bull Seismol Soc Am 86(2) 457-469 (Apr 1996), 11A1347
Radial model of anelasticity consistent with long-period surface-wave attenuation, Bull Seismol Soc Am 86(1A) 144-158 (Feb 1996), 11A1348
Representing earthquake intensity-magnitude relationship with a nonlinear function, Bull Seismol Soc Am 86(1A) 73-78 (Feb 1996), 11A1349
RMS response of a 1D half-space to SH, Bull Seismol Soc Am 86(2) 363-370 (Apr 1996), 11A1350
Scaling relations for strong ground motion prediction models with M^2 terms, Bull Seismol Soc Am 86(2) 329-336 (Apr 1996), 11A1351
Search of a worldwide catalog for earthquakes triggered at intermediate distances, Bull Seismol Soc Am 86(2) 293-298 (Apr 1996), 11A1352
Seismic response of a hill: The example of Tarzana, California, Bull Seismol Soc Am 86(1A) 66-72 (Feb 1996), 11A1353
SH wave propagation by discrete wavenumber boundary integral modeling in transversely isotropic medium, Bull Seismol Soc Am 86(2) 524-529 (Apr 1996), 11A1354
Simultaneous inversion for earthquake location and velocity structure beneath central Costa Rica, Bull Seismol Soc Am 86(1A) 19-31 (Feb 1996), 11A1355
Source parameters of the damaging Cornwall-Massena earthquake of 1944 from regional waveforms, Bull Seismol Soc Am 86(2) 489-497 (Apr 1996), 11A1356
SaPmp phase in regional wave propagation, Bull Seismol Soc Am 86(1A) 133-143 (Feb 1996), 11A1357
Triggering by aftershocks by the free oscillations of the Earth, Bull Seismol Soc Am 86(2) 299-305 (Apr 1996), 11A1358
Two dimensional acoustic wave equation inversion combining plane-wave seismograms with well logs, Geophys 61(3) 735-741 (Jun 1996), 11A1359
Velocity structure beneath College Station Alaska from receiver functions, Bull Seismol Soc Am 86(1A) 232-241 (Feb 1996), 11A1360
Vertical and near-vertical incidence of P waves in a layered solid, Bull Seismol Soc Am 86(2) 406-415 (Apr 1996), 11A1361
Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling, Geophys 61(3) 857-861 (Jun 1996), 11A1362
Estimation of response spectra and simulation of nonstationary earthquake ground motions, Bull Seismol Soc Am 86(2) 337-352 (Apr 1996), 11A1400
Earthquake size as a function of fault slip rate, Bull Seismol Soc Am 86(3) 683-690 (Jun 1996), 12A1358
Earthquake slip rise time and rupture propagation: Numerical results of the quantum earthquake model, Bull Seismol Soc Am 86(3) 567-574 (Jun 1996), 12A1359
Moderate-magnitude seismicity remotely triggered in the Taiwan region by large earthquakes around the Philippine Sea plate, Bull Seismol Soc Am 86(3) 843-847 (Jun 1996), 12A1360
Shear-wave velocity of the sedimentary basin in the upper Mississippi embayment using S-to-P converted waves, Bull Seismol Soc Am 86(3) 848-856 (Jun 1996), 12A1361
Source process of the 1995 Kobe earthquake: Determination of spatio-temporal slip distribution by Bayesian modeling, Bull Seismol Soc Am 86(3) 547-566 (Jun 1996), 12A1362
Three-dimensional simulation of earthquakes of the Los Angeles fault system, Bull Seismol Soc Am 86(3) 575-596 (Jun 1996), 12A1390

454E. Earthquake prediction

Long-term earthquake prediction in Central America and Caribbean Sea based on the time- and magnitude-predictable model, Bull Seismol Soc Am 85(4) 1190-1201 (Aug 1995), 2A1237
Stochastic model for spatially and temporally dependent earthquakes, Bull Seismol Soc Am 85(4) 1177-1189 (Aug 1995), 2A1238
Forecasting where larger crustal earthquakes are likely to occur in Italy in the near future, Bull Seismol Soc Am 85(5) 1475-1482 (Oct 1995), 3A1282
Design and performance of an equivalent-shear-beam container for earthquake centrifuge modeling, Geotechnique 46(1) 83-102 (Mar 1996), 9A1378
Continuous monitoring of seismic energy release associated with the 1994 Northridge earthquake and the 1992 Landers earthquake, Bull Seismol Soc Am 86(1A) 255-258 (Feb 1996), 11A1363
Multiple precursors to the Landers earthquake, Bull Seismol Soc Am 86(1A) 113-121 (Feb 1996), 11A1364
Use of foreshocks in probabilistic prediction along the Japan and Kuril trenches, Bull Seismol Soc Am 86(1A) 242-254 (Feb 1996), 11A1365
Burridge-Knopoff model, Appl Math Comput 77(2-3) 131-132 (Jul 1996), 12T1363

454F. Heat transfer aspects

Equations governing convection in earth's core and the geodynamo, Geophys Astrophys Fluid Dyn 79(1-4) 1-97 (Aug 1995), 3T1276
Block-size determination in fractured porous media, IMA J Appl Math 55(3) 269-279 (1995), 6A1223
Galvanic distortion of the MT impedance tensor: Application to Ioannina VAN stations (Greece), Acta Geophys Polonica 43(2) 115-128 (1995), 6A1238

454G. Vulcanology

Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, J Fluid Mech 301 65-77 (Oct 1995), 4A1323
Effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions, J Fluid Mech 305 239-261 (Dec 1995), 6A1239
Thermo-viscous fingering of flow in a thin gap: A model of magma flow in dikes and fissures, J Fluid Mech 305 219-238 (Dec 1995), 6A1240

454I. Gravity

Inversion of the power spectrum from gravity anomalies of prismatic bodies, Geophys 60(6) 1698-1703 (Dec 1995), 3A1283
Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, J Fluid Mech 301 65-77 (Oct 1995), 4A1323
Gravity interpretation of nonoutcropping sedimentary basins in which the density contrast decreases parabolically with depth, Pure Appl Geophys 145(2) 327-335 (Nov 1995), 4A1324
Constrained gravity inversion using Tikhonov's regularization method, Acta Geophys Polonica 43(2) 137-163 (1995), 6A1241
Experimental study on the growth of gravity currents (Japanese), Proc JSCE 527(II-33) 15-26 (Nov 1995), 6A1242
Horizontal acceleration corrections in airborne gravimetry, Geophys 61(1) 273-276 (Feb 1996), 6A1243
Three-dimensional gravity interpretation of the Earth's crust at Hanoi depression, Acta Geophys Polonica 43(2) 166-173 (1995), 6A1244

Gravitational field of topographic-isostatic masses and the hypothesis of mass condensation - II: The topographic-isostatic geoid, Surveys Geophys 17(1) 41-66 (Jan 1996), 8A1329
Physical mechanisms of man-made influences on the magnetosphere, Surveys Geophys 17(1) 67-100 (Jan 1996), 8A1330
Increasing the efficiency of downward analytical continuation of potential fields to solve the indirect gravity problem, Acta Geophys Polonica 43(3) 215-230 (1995), 9A1379

454Y. Computational techniques

Finite-difference modeling of faults and fractures, Geophys 60(5) 1514-1526 (Oct 1995), 1A1383
Multiscale seismic waveform inversion, Geophys 60(5) 1457-1473 (Oct 1995), 1A1384
One-dimensional layered media - Part 2: Layer-based waveform inversion, Geophys 60(6) 1857-1869 (Dec 1995), 3A191
One-dimensional media - Part 1: 3D elastic modeling, Geophys 60(6) 1843-1856 (Dec 1995), 3A192
Attenuation and anisotropy: The effect of extra fine layering, Geophys 60(6) 1646-1655 (Dec 1995), 3A1284
Beyond ray tomography: Wavepaths and Fresnel volumes, Geophys 60(6) 1790-1804 (Dec 1995), 3A1285
Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles, Geophys 60(6) 1727-1734 (Dec 1995), 3A1286
DASPK: A new high order and adaptive time-intergration technique with applications to mantle convection with strongly temperature-and pressure-dependent rheology, Geophys Astrophys Fluid Dyn 80(1-2) 57-74 (Sep 1995), 3A1287
Elastodynamic inverse scattering method for removing scattered surface waves from field data, Geophys 60(6) 1897-1905 (Dec 1995), 3A1288
Elimination of numerical dispersion in finite-difference modeling and migration by flux-corrected transport, Geophys 60(6) 1830-1842 (Dec 1995), 3A1289
Frequency-time decomposition of seismic data using wavelet-based methods, Geophys 60(6) 1906-1916 (Dec 1995), 3A1290
Lateral prediction for noise attenuation by t-x and f-x techniques, Geophys 60(6) 1887-1896 (Dec 1995), 3A1291
Multifrequency shielding behavior of cylindrical overburden covering concentric elongated ore deposits, Acta Geophys Polonica 43(1) 63-74 (1995), 3A1292
Prestack processing of land data with complex topography, Geophys 60(6) 1875-1886 (Dec 1995), 3A1293
Sonic logging of compressional-wave velocities in a very slow formation, Geophys 60(6) 1627-1633 (Dec 1995), 3A1294
Sponge boundary condition for frequency-domain modeling, Geophys 60(6) 1870-1874 (Dec 1995), 3A1295
Three-dimensional prestack full-wavefield inversion, Geophys 60(6) 1805-1818 (Dec 1995), 3A1296
Turning-ray tomography, Geophys 60(6) 1917-1929 (Dec 1995), 3A1297
Two-dimensional migration in transversely isotropic media using explicit operators, Geophys 60(6) 1819-1829 (Dec 1995), 3A1298
Improving the shallow seismic sections by microcomputer automated static corrections, Acta Geophys Polonica 43(1) 1-9 (1995), 3A1337
Reflection tomography using Gibbs statistics, Geophys Trans 39(4) 255-261 (Sep 1995), 5A1310
Three dimensional seismic modeling by FE condensation technique, Geophys Trans 39(4) 263-288 (Sep 1995), 5A1311
Simulation of 3D elastic wave propagation in the Salt Lake Basin, Bull Seismol Soc Am 85(6) 1688-1710 (Dec 1995), 6A1231
Boundary conditions and the source term for one-way acoustic depth extrapolation, Geophys 61(1) 244-252 (Feb 1996), 6A1245
Broadband receiver response from dual-streamer data and applications in deep reflection seismology, Geophys 61(1) 232-243 (Feb 1996), 6A1246
Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, Bull Seismol Soc Am 85(6) 1679-1687 (Dec 1995), 6A1247
Fast, efficient calculation of rays and travel times with ray perturbation theory, J Acoust Soc Am 99(1) 383-391 (Jan 1996), 6A1248
High-order, finite-difference modeling of multipole logging in formations with anisotropic attenuation and elasticity, Geophys 61(1) 21-33 (Feb 1996), 6A1249
Interface model for analysis of deformation behavior of discontinuities, Int J Numer Anal Methods Geomech 20(1) 1-33 (Jan 1996), 6A1250
Maximum energy traveltimes calculated in the seismic frequency band, Geophys 61(1) 253-263 (Feb 1996), 6A1251
Numerical study on the generation of downgoing S-waves by a vertical force acting close to a step-like topography, Geophys 61(1) 192-201 (Feb 1996), 6A1252
Pressure in a fluid-filled borehole caused by a seismic source in stratified media, Geophys 61(1) 43-55 (Feb 1996), 6A1253
Radiation patterns: Possibility for monitoring seismic sources, Geophys 61(1) 282-287 (Feb 1996), 6A1254
Removal of surface-related wave phenomena: The marine case, Geophys 61(1) 202-210 (Feb 1996), 6A1255
Theory of 2D complex seismic trace analysis, Geophys 61(1) 264-272 (Feb 1996), 6A1256
Velocity anisotropy observed in wellbore seismic arrivals: Combined effects of intrinsic properties and layering, Geophys 61(1) 12-20 (Feb 1996), 6A1257
Locally generated surface waves in Santa Clara Valley: Analysis of observations and numerical simulation, Earthquake Eng Struct Dyn 25(1) 47-63 (Jan 1996), 6A1284
Numerical modeling of fault-zone trapped waves: Acoustic case, Bull Seismol Soc Am 85(6) 1711-1717 (Dec 1995), 6A1285
Parameter and variance estimation in geotechnical backanalysis using prior information, Int J Numer Anal Methods Geomech 20(2) 119-141 (Feb 1996), 7A1368
A priori estimates and convergence for the discrete forward and inverse problems of reflection seismology, SIAM J Numer Anal 33(1) 247-279 (Feb 1996), 7A1369
Computational Geomechanics - Theory and Applications of Transport in Porous Media Series, Vol 7 (Khwer, MA, 1995) 8R34
Kinematic inversion of first arrivals of refracted waves: A combined approach, Geophys 61(2) 509-519 (Apr 1996), 8A1331
Optimal 9-point, finite-difference, frequency-space, 2D scalar wave extrapolator, Geophys 61(2) 529-537 (Apr 1996), 8A1332
Stress evolution: Creep and dynamic patterns, Acta Geophys Polonica 43(3) 187-196 (1995), 9A1380
Theory of the antiplane stress evolution in 2D, Acta Geophys Polonica 43(3) 181-186 (1995), 9A1381
Using artificial neural networks to assist in the interpretation of geophysical data, Acta Geophys Polonica 43(3) 231-245 (1995), 9A1382
Accurate formulation of log-stretch dip moveout in the frequency-wavenumber domain, Geophys 61(3) 815-821 (Jun 1996), 11A1366
Analysis of higher-order, finite-difference schemes in 3D reverse-time migration, Geophys 61(3) 845-856 (Jun 1996), 11A1367
Application of genetic algorithms to an inversion of surface-wave dispersion data, Bull Seismol Soc Am 86(2) 436-444 (Apr 1996), 11A1368
Comparison of 2D numerical viscoelastic waveform modeling with ultrasonic physical modeling, Geophys 61(3) 862-871 (Jun 1996), 11A1369
Fast algorithms to design discrete Wiener filters in lag and length coordinates, Geophys 61(3) 882-890 (Jun 1996), 11A1370
Finite-difference depth migration of exploration-scale 3D seismic data, Geophys 61(3) 776-794 (Jun 1996), 11A1371
Fowler DMO and time migration for transversely isotropic media, Geophys 61(3) 835-844 (Jun 1996), 11A1372
Instantaneous polarization attributes and directional filtering, Geophys 61(3) 872-881 (Jun 1996), 11A1373
Inversion versus migration: A new perspective to an old discussion, Geophys 61(3) 804-814 (Jun 1996), 11A1374
Monte Carlo simulation of peak-acceleration attenuation using a finite-fault uniform-patch model including isochrone and extremal characteristics, Bull Seismol Soc Am 86(1A) 79-92 (Feb 1996), 11A1375
Nonlinear waveform tomography applied to crosshole seismic data, Geophys 61(3) 902-913 (Jun 1996), 11A1376
Optimum weighted stack for multiple suppression, Geophys 61(3) 891-901 (Jun 1996), 11A1377
Suppression of sea-floor-scattered energy using a dip-moveout approach: Application to the mid-ocean ridge environment, Geophys 61(3) 821-834 (Jun 1996), 11A1378
True-amplitude migration taking fine layering into account, Geophys 61(3) 795-803 (Jun 1996), 11A1379
Unified approach to 3D seismic reflection imaging - Part I: Basic concepts, Geophys 61(3) 742-758 (Jun 1996), 11A1380
Unified approach to 3D seismic reflection imaging - Part II: Theory, Geophys 61(3) 759-775 (Jun 1996), 11A1381
Analysis of asymmetric multipathing with a generalization of the double-beam method, Bull Seismol Soc Am 86(3) 737-749 (Jun 1996), 12A1364
Iterative methods for the reconstruction of an inverse potential problem, Inverse Prob 12(3) 251-266 (Jun 1996), 12A1365
Numerical seismograms obtained using ω-k integrals, for a point P source in a vertically inhomogeneous anelastic model, Bull Seismol Soc Am 86(3) 750-760 (Jun 1996), 12A1366
Quasi-Monte Carlo integration over $S^2 \times S^2$ for migration × inversion, Inverse Prob 12(3) 219-239 (Jun 1996), 12A1367
Ray theoretical analysis of Lg, Bull Seismol Soc Am 86(3) 726-736 (Jun 1996), 12A1368

454Z. Explorations and measurements

Dynamics of Jovian atmospheres, Annu Rev Fluid Mech 27 293-334 (1995), 2A1262
Electric signals recorded during uniaxial compression of rock samples: Their possible correlation with presicmic electric signals, Acta Geophys Polonica 43(1) 49-61 (1995), 3A1299
Fundamental study on composite sensitivity analysis of electrode array system for resistivity measurements (Japanese), J Soc Mat Sci Japan 44(504) 1189-1195 (Sep 1995), 3A1300
Imaging the permeability structure of a limestone aquifer by crosswell acoustic tomography, Geophys 60(6) 1634-1645 (Dec 1995), 3A1301
Shallow seismic investigation of a site with poor reflection quality, Geophys 60(6) 1715-1726 (Dec 1995), 3A1302
Fiber optic time break, Geophys 61(1) 294-298 (Feb 1996), 6A1258
Potential pitfalls of crooked-line seismic reflection surveys, Geophys 61(1) 277-281 (Feb 1996), 6A1259
Recording teleseismic earthquakes using ocean-bottom seismographs at mid-ocean ridges, Bull Seismol Soc Am 85(6) 1648-1664 (Dec 1995), 6A1260
Results of induction study within the Pomeranian segment of the Teisseyro-Tornquist tectonic zone, Acta Geophys Polonica 43(2) 129-136 (1995), 6T1261
Testing a model of earthquake nucleation, Bull Seismol Soc Am 85(6) 1873-1878 (Dec 1995), 6A1262
Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, Bull Seismol Soc Am 85(6) 1847-1857 (Dec 1995), 6A1287
Inadvertent changes in magnitude reported in earthquake catalogs: Their evaluation through b-value estimates, Bull Seismol Soc Am 85(6) 1858-1866 (Dec 1995), 6A1288
Instrument responses of the SKM-3 system and the designated seismic station vault seismic system, Bull Seismol Soc Am 85(6) 1835-1846 (Dec 1995), 6A1289
Using dynamic photoelasticity to evaluate the influence of parting planes on stress waves interacting with stopes, Int J Numer Anal Methods Geomech 20(2) 100-117 (Feb 1996), 7A1370
Accuracy of seismic estimates of dynamic strains: An evaluation using strainmeter and seismometer data from Pinon Flat Observatory, California, Bull Seismol Soc Am 86(1A) 212-220 (Feb 1996), 11A1382
Are L_g spectra from NTS explosions self-similar?, Bull Seismol Soc Am 86(2) 445-456 (Apr 1996), 11A1383
Array observations of the shear-coupled PL wave, Bull Seismol Soc Am 86(2) 538-543 (Apr 1996), 11A1384
Earthquake site response in Santa Cruz, California, Bull Seismol Soc Am 86(1A) 55-65 (Feb 1996), 11A1385
Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, Bull Seismol Soc Am 86(2) 379-388 (Apr 1996), 11A1386
Improved air-powered impulsive shear-wave source, Bull Seismol Soc Am 86(2) 530-537 (Apr 1996), 11A1387
Instrument responses of digital seismographs at Borovoye, Kazakhstan, by inversion of transient calibration pulses, Bull Seismol Soc Am 86(1A) 191-203 (Feb 1996), 11A1388
Measurement of the predominant and resonant frequencies, Bull Seismol Soc Am 86(2) 416-427 (Apr 1996), 11A1389
Monitoring nuclear test sites with GERESS, Bull Seismol Soc Am 86(1A) 172-190 (Feb 1996), 11A1390
Observation of shallow anisotropy on local earthquake records at the Garner Valley, Southern California, Downhole Array, Bull Seismol Soc Am 86(2) 477-488 (Apr 1996), 11A1391
P-wave backazimuth anomalies observed by a small-aperture seismic array at Pinyon Flat, Southern California: Implications for structure and source location, Bull Seismol Soc Am 86(2) 470-476 (Apr 1996), 11A1392
Precariously balanced rocks and ground-motion maps for southern California, Bull Seismol Soc Am 86(1A) 43-54 (Feb 1996), 11A1393
Reliable and economical high-temperature deep-borehole seismic recording, Bull Seismol Soc Am 86(1A) 204-211 (Feb 1996), 11A1394
Repeatability of microseism measurements in Port Hueneme case study, Bull Seismol Soc Am 86(2) 428-435 (Apr 1996), 11A1395
Seismogram synthesis for multi-layered media with irregular interfaces by global generalized reflection-transmission matrices method - III: Theory of 2D DP-SV case, Bull Seismol Soc Am 86(2) 389-405 (Apr 1996), 11A1396
Signal detection using multi-channel seismic data, Bull Seismol Soc Am 86(1A) 221-231 (Feb 1996), 11A1397
Site response from ambient noise measurements: New perspectives from an array study in Central Italy, Bull Seismol Soc Am 86(2) 320-328 (Apr 1996), 11A1398
Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 1: Techniques and application to seismograms recorded in the Anza seismic gap, Bull Seismol Soc Am 86(3) 868-889 (Jun 1996), 12A1369
Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 2: Application to seismograms recorded by the Parkfield High Resolution Seismic Network, Bull Seismol Soc Am 86(3) 890-910 (Jun 1996), 12A1370
Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, Bull Seismol Soc Am 86(3) 670-682 (Jun 1996), 12A1371
Probability gain due to foreshocks following quiescence tested by synthetic catalogs, Bull Seismol Soc Am 86(3) 911-913 (Jun 1996), 12A1372
Source estimation of finite faults from broadband regional networks, Bull Seismol Soc Am 86(3) 797-804 (Jun 1996), 12A1373

456. EARTHQUAKE MECHANICS

456B. Seismicity (rates of occurrence)

Area-based tests of long-term seismic hazard predictions, Bull Seismol Soc Am 85(5) 1285-1298 (Oct 1995), 3A1303
Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, Bull Seismol Soc Am 85(5) 1483-1489 (Oct 1995), 3A1304
Earthquakes as critical phenomena: Implications for probabilistic seismic hazard analysis, Bull Seismol Soc Am 85(5) 1299-1309 (Oct 1995), 3A1305
Monitoring and analysis of seismicity in the Ostrava-Karvina coal mining district, Acta Geophys Polonica 43(1) 11-31 (1995), 3A1306
Probablistic seismic hazard analysis and design earthquakes: Closing the loop, Bull Seismol Soc Am 85(5) 1275-1284 (Oct 1995), 3A1307
Fundamental study on seismic wave propagating property through several kinds of rock joint under uniaxial stress (Japanese), Proc JSCE 523(III-32) 49-58 (Sep 1995), 4T1325
Probabilistic seismic hazard zonation and dynamic site periods mapping for major cities in Jordan, Earthquake Spectra 11(4) 637-657 (Nov 1995), 7A1371
Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - I: Fundamental solutions, Soil Dyn Earthquake Eng 15(2) 119-127 (1996), 8A171
Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - II: Applications, Soil Dyn Earthquake Eng 15(2) 129-139 (1996), 8A172
Estimative analysis of SH-waves propagation through a layered half-space, Mec Appl 40(4-6) 461-465 (Dec 1995), 11T171
Probabilistic assessments of the seismic hazard in northern Armenia: Spitak region, Earthquake Spectra 12(2) 199-216 (May 1996), 11A1399

456C. Characteristics of strong ground motion

Earthquake ground motion characteristics and seismic energy dissipation, Earthquake Eng Struct Dyn 24(9) 1195-1213 (Sep 1995), 1A1385
Prediction of seismic energy dissipation in SDOF systems, Earthquake Eng Struct Dyn 24(9) 1215-1223 (Sep 1995), 1A1386
Beginnings of earthquakes in the Mexican subduction zone on strong-motion accelerograms, Bull Seismol Soc Am 85(4) 1107-1115 (Aug 1995), 2A1239
Comparison and test of various site-response estimation techniques, including three that are not reference-site dependent, Bull Seismol Soc Am 85(4) 1127-1143 (Aug 1995), 2A1240

Magnitude-dependent variance of peak ground acceleration, Bull Seismol Soc Am 85(4) 1161-1176 (Aug 1995), 2A1241
Surface-wave dispersion analysis in Mexico City, Bull Seismol Soc Am 85(4) 1116-1126 (Aug 1995), 2A1242
Application of bandlimited anelastic models to wave propagation in highly attenuative media, Bull Seismol Soc Am 85(5) 1359-1372 (Oct 1995), 3A1308
Attenuation of earthquake ground motion in Japan including deep focus events, Bull Seismol Soc Am 85(5) 1343-1358 (Oct 1995), 3A1309
Measurements of intrinsic and scattering seismic attenuation in the crust, Bull Seismol Soc Am 85(5) 1373-1380 (Oct 1995), 3A1310
Scattering of plane SH waves by a cylindrical alluvial valley of circular-arc cross-section, Earthquake Eng Struct Dyn 24(10) 1303-1313 (Oct 1995), 3A1311
Statistical analysis of peaks and directivity of earthquake ground motion, Earthquake Eng Struct Dyn 24(11) 1527-1539 (Nov 1995), 4A1326
Coherency model for spatially varying ground motions, Earthquake Eng Struct Dyn 25(1) 99-111 (Jan 1996), 6A1263
Evaluation of local site effects and their removal from borehole records observed in the Sendai region, Japan, Bull Seismol Soc Am 85(6) 1770-1789 (Dec 1995), 6A1264
Microearthquake S-wave observations from 0 to 1 km in the Varian well at Parkfield, California, Bull Seismol Soc Am 85(6) 1805-1820 (Dec 1995), 6A1265
Nonlinear behavior of soil sediments identified by using borehole records observed at the Ashigara Valley, Japan, Bull Seismol Soc Am 85(6) 1821-1834 (Dec 1995), 6A1266
Scheme of random summation of an empirical Green's function to estimate ground motions from future large earthquakes, Bull Seismol Soc Am 85(6) 1635-1647 (Dec 1995), 6A1267
Shaking intensity thresholds for rock falls and slides: Evidence from 1987 Whittier Narrows and Superstition Hills earthquake strong-motion records, Bull Seismol Soc Am 85(6) 1739-1757 (Dec 1995), 6A1268
Site effect observations from broadband arrays, Bull Seismol Soc Am 85(6) 1758-1769 (Dec 1995), 6A1269
Site-dependent attenuation relations of seismic motion parameters at depth using borehole data, Bull Seismol Soc Am 85(6) 1790-1804 (Dec 1995), 6A1270
Characteristics of free-field vertical ground motion during the Northridge Earthquake, Earthquake Spectra 11(4) 515-525 (Nov 1995), 7A1372
Applications of statistical and GIS techniques to slope instability zonation (1:50.000 Fabriano geological map sheet), Soil Dyn Earthquake Eng 15(2) 83-94 (1996), 8A541
Interpretation of the microtremor spectra at the Zafarraya basin, southern Spain, Soil Dyn Earthquake Eng 15(2) 69-73 (1996), 8A1333
Predominant direction of strong motion S-waves and its spatial variation at Chiba array site (Japanese), Proc JSCE 531(I-34) 87-92 (Jan 1996), 9A1383
Kobe Earthquake: Geodynamical Aspects (Comput Mech, Billerica MA, 1996) 10N40
Seismic ground motion synthetics of the 1989 Loma Prieta earthquake, Earthquake Eng Struct Dyn 25(5) 465-481 (May 1996), 10A1427
Array analysis of core-phase caustic signals from underground nuclear explosions: Discrimination of closely spaced explosions, Bull Seismol Soc Am 86(1A) 159-171 (Feb 1996), 11A1337
Fault model with variable slip duration for the 1989 Loma Prieta, California, earthquake determined from strong-ground-motion data, Bull Seismol Soc Am 86(1A) 122-132 (Feb 1996), 11A1338
High-frequency shape of the source spectrum for earthquakes in eastern and western Canada, Bull Seismol Soc Am 86(1A) 106-112 (Feb 1996), 11A1339
July 12, 1993 Hokkaido-Nansei-Oki, Japan, earthquake: Effects of source complexity on surface-wave radiation, Bull Seismol Soc Am 86(2) 505-518 (Apr 1996), 11A1341
Kernel estimation methods for seismic hazard area source modeling, Bull Seismol Soc Am 86(2) 353-362 (Apr 1996), 11A1342
Low-velocity fault-zone guided waves: Numerical investigations of trapping efficiency, Bull Seismol Soc Am 86(2) 371-378 (Apr 1996), 11A1343
Magnitude distributions and slip scaling of heterogeneous seismic sources, Bull Seismol Soc Am 86(2) 498-504 (Apr 1996), 11A1344
Major earthquakes in Mexicali Valley, Mexico, and fluid extraction at Cerro Prieto Geothermal Field, Bull Seismol Soc Am 86(1A) 93-105 (Feb 1996), 11A1345
Northridge, California earthquake of January 17, 1994, Bull Seismol Soc Am 86(1B) 1-361 (Feb 1996), 11A1346
Propagation characteristics of Lg across the Tibetan Plateau, Bull Seismol Soc Am 86(2) 457-469 (Apr 1996), 11A1347
Radial model of anelasticity consistent with long-period surface-wave attenuation, Bull Seismol Soc Am 86(1A) 144-158 (Feb 1996), 11A1348
Representing earthquake intensity-magnitude relationship with a nonlinear function, Bull Seismol Soc Am 86(1A) 73-78 (Feb 1996), 11A1349
RMS response of a 1D half-space to SH, Bull Seismol Soc Am 86(2) 363-370 (Apr 1996), 11A1350
Scaling relations for strong ground motion prediction models with M^2 terms, Bull Seismol Soc Am 86(2) 329-336 (Apr 1996), 11A1351
Seismic response of a hill: The example of Tarzana, California, Bull Seismol Soc Am 86(1A) 66-72 (Feb 1996), 11A1353
SH wave propagation by discrete wavenumber boundary integral modeling in transversely isotropic medium, Bull Seismol Soc Am 86(2) 524-529 (Apr 1996), 11A1354
Source parameters of the damaging Cornwall-Massena earthquake of 1944 from regional waveforms, Bull Seismol Soc Am 86(2) 489-497 (Apr 1996), 11A1356
Velocity structure beneath College Station Alaska from receiver functions, Bull Seismol Soc Am 86(1A) 232-241 (Feb 1996), 11A1360
Vertical and near-vertical incidence of P waves in a layered solid, Bull Seismol Soc Am 86(2) 406-415 (Apr 1996), 11A1361
Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, Bull Seismol Soc Am 86(2) 379-388 (Apr 1996), 11A1386
Measurement of the predominant and resonant frequencies, Bull Seismol Soc Am 86(2) 416-427 (Apr 1996), 11A1389
Seismogram synthesis for multi-layered media with irregular interfaces by global generalized reflection-transmission matrices method - III: Theory of 2D DP-SV case, Bull Seismol Soc Am 86(2) 389-405 (Apr 1996), 11A1396
Estimation of response spectra and simulation of nonstationary earthquake ground motions, Bull Seismol Soc Am 86(2) 337-352 (Apr 1996), 11A1400
Analysis of spectral ratios for estimating ground motion in deep basins, Bull Seismol Soc Am 86(3) 646-654 (Jun 1996), 12A1374
Apparent stress of earthquakes within the shallow subduction zone near Kamchatka Peninsula, Bull Seismol Soc Am 86(3) 811-820 (Jun 1996), 12A1375
Characteristics of torsional ground motions, Earthquake Eng Struct Dyn 25(6) 599-610 (Jun 1996), 12A1376
Comparison between earthquake rotation spectra obtained by different experimental sources, Eng Struct 18(8) 597-603 (Aug 1996), 12A1377
Comparison of magnitudes estimated by the Japan meteorological agency with moment magnitudes for intermediate and deep earthquakes, Bull Seismol Soc Am 86(3) 832-842 (Jun 1996), 12A1378
Effects of buildings on the duration and amplitude of ground motion in Mexico City, Bull Seismol Soc Am 86(3) 914-920 (Jun 1996), 12A1379
Improving teleseismic event locations using a 3D earth model, Bull Seismol Soc Am 86(3) 788-796 (Jun 1996), 12A1380
Liquefaction-related ground failure: A case study in the New Madrid seismic zone, central US, Bull Seismol Soc Am 86(3) 636-645 (Jun 1996), 12A1381
Moment-tensor summation to derive the active crustal deformation in Japan, Bull Seismol Soc Am 86(3) 821-831 (Jun 1996), 12A1382
Multiple excitation effects on response of symmetric buildings, Eng Struct 18(9) 732-740 (Sep 1996), 12A1383
Rupture directivity and slip distribution of the M 4.3 foreshock to the 1992 Joshua Tree earthquake, southern California, Bull Seismol Soc Am 86(3) 805-810 (Jun 1996), 12A1384
Seismic wave-field observations at a dense, small-aperture array located on a landslide in the Santa Cruz Mountains, California, Bull Seismol Soc Am 86(3) 655-669 (Jun 1996), 12A1385
Site amplification at five locations in San Francisco, California: A comparison of S waves, codas, and microtremors, Bull Seismol Soc Am 86(3) 627-635 (Jun 1996), 12A1386
Statistical estimation of seismic hazard parameters: Maximum possible magnitude and related parameters, Bull Seismol Soc Am 86(3) 691-700 (Jun 1996), 12A1387
Surface faulting of the 1954 Fairview Peak (M_S 7.2) and Dixie Valley (M_S 6.8) earthquakes, central Nevada, Bull Seismol Soc Am 86(3) 761-787 (Jun 1996), 12A1388
Three dimensional eighth-order elastic finite-difference modeling of refraction and strong-motion data from the Coyote Lake Region, California, Bull Seismol Soc Am 86(3) 616-626 (Jun 1996), 12A1389
Three-dimensional simulation of earthquakes of the Los Angeles fault system, Bull Seismol Soc Am 86(3) 575-596 (Jun 1996), 12A1390
Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, Bull Seismol Soc Am 86(3) 857-867 (Jun 1996), 12A1391
Use of empirical Green's functions, spectral ratios, and kinematic source models for simulating strong ground motion, Bull Seismol Soc Am 86(3) 597-615 (Jun 1996), 12T1392
Variation of regional seismic discriminants with surface topographic roughness in the western US, Bull Seismol Soc Am 86(3) 714-725 (Jun 1996), 12A1393
Velocity-weakening friction as a factor in controlling the frequency-magnitude relation of earthquakes, Bull Seismol Soc Am 86(3) 701-713 (Jun 1996), 12A1394

456D. Geological criteria

Liquefaction under random loading: Unit energy approach, J Geotech Eng 121(11) 776-781 (Nov 1995), 3A575
Modeling lateral sliding of slope due to liquefaction of sand layer, J Geotech Eng 121(11) 814-816 (Nov 1995), 3A584
Liquefaction-induced ground-surface disruption, J Geotech Eng 121(11) 805-809 (Nov 1995), 3A585
Attenuation and source parameters of earthquakes in the Cascadia region, Bull Seismol Soc Am 85(5) 1327-1342 (Oct 1995), 3A1312
P-wave amplification by near-surface deposits at different excitation levels, Bull Seismol Soc Am 85(5) 1490-1494 (Oct 1995), 3A1313
Rotation of the principal stress directions due to earthquake faulting and its seismological implications, Bull Seismol Soc Am 85(5) 1513-1517 (Oct 1995), 3A1314
S-wave attenuation in the crust in northern Greece, Bull Seismol Soc Am 85(5) 1381-1387 (Oct 1995), 3A1315
Unstable steam-water convection as possible trigger to earthquakes, Pure Appl Geophys 145(1) 139-147 (Oct 1995), 3A1316
Series solution for scattering of plane SH-waves by multiple shallow circular-arc canyons, Appl Math Mech 16(7) 657-666 (Jul 1995), 4A246
Validation of small strain properties from recorded weak seismic motions, Soil Dyn Earthquake Eng 14(6) 399-408 (1995), 4A601
Empirical criteria for liquefaction in sands via standard penetration tests and seismic wave energy, Soil Dyn Earthquake Eng 14(6) 419-426 (1995), 4A606
Time effects on dynamic soil properties under random excitation conditions, Soil Dyn Earthquake Eng 14(6) 439-443 (1995), 4A609
Liquefaction of reclaimed island in Kobe, Japan, J Geotech Eng 122(1) 39-49 (Jan 1996), 6A530
Neural-network modeling of CPT seismic liquefaction data, J Geotech Eng 122(1) 70-73 (Jan 1996), 6A533
Seismic rehabilitation of earth dams, J Geotech Eng 122(1) 7-20 (Jan 1996), 6A544
April 9, 1993 earthquake in south-central Texas: Was it induced by fluid withdrawal?, Bull Seismol Soc Am 85(6) 1888-1895 (Dec 1995), 6A1271
Estimating modal parameters for a simple soft-soil site having a linear distribution of shear wave velocity with depth, Earthquake Eng Struct Dyn 25(2) 163-178 (Feb 1996), 7A1373
Estimation of site amplification from Dahan downhole recordings, Earthquake Eng Struct Dyn 25(4) 319-332 (Apr 1996), 9A1384
Tectonics and seismicity of the southern Washington Cascade range, Bull Seismol Soc Am 86(1A) 1-18 (Feb 1996), 11A1336

456E. Soil-structure interaction

Dynamic 3D soil-railway track interaction by BEM-FEM, Earthquake Eng Struct Dyn 24(9) 1177-1193 (Sep 1995), 1A1387
Estimation of liquefaction potential by in situ methods, Earthquake Spectra 11(3) 431-455 (Aug 1995), 3A574
Equivalences in the soil-structure interaction, Comput Struct 58(2) 367-380 (Jan 1996), 3A583
Seismic response of structural frameworks with flexible connections, Comput Struct 58(1) 27-41 (Jan 1996), 3A1317
Effects of soil-structure interaction on seismic response of PC cable-stayed bridge, Soil Dyn Earthquake Eng 14(6) 427-437 (1995), 4A1327
Seismic analysis of buried pipeline in a 3D soil continuum, Eng Anal Boundary Elements 15(4) 371-394 (1995), 4A1328
Asynchronous dynamic analysis of dam-reservoir-foundation systems by the Lagrangian approach, Comput Struct 58(5) 925-935 (Mar 1996), 5A1312
Base uplifting analysis of flexibly supported liquid-storage tanks, Earthquake Eng Struct Dyn 24(12) 1591-1607 (Dec 1995), 5A1313
Dynamic plate-soil interaction: Finite and infinite, flexible, and rigid plates on homogeneous layered or Winkler soil, Soil Dyn Earthquake Eng 15(1) 51-59 (1996), 5A1314
Analysis of elastoplastic seismologic response on soft clay foundation (Chinese), J Vib Eng 8(4) 317-323 (Dec 1995), 6A535
Forces in pile foundations under seismic loading, J Eng Mech 122(1) 46-53 (Jan 1996), 6A1272
Harmonic wave response of two 3D rigid surface foundations, Soil Dyn Earthquake Eng 15(2) 95-110 (1996), 8A140
Structural damping for soil-structure interaction studies, Struct Eng and Mech 3(2) 107-120 (Mar 1995), 8A159
Modeling of ground motion in the vicinity of massive structures, Soil Dyn Earthquake Eng 15(2) 75-82 (1996), 8A1334
Two dimensional transient dynamic friction contact problems - II: Applications to soil-structure interaction problems, Eng Anal Boundary Elements 16(3) 235-243 (1995), 8A1335
Response of single piles embedded layered halfspaces to arbitrary incident seismic waves (Chinese), J Comput Struct Mech Appl 12(4) 438-444 (Nov 1995), 9A1385
Complex modal analysis of a continuous model with radiation damping, J Sound Vib 192(1) 15-33 (Apr 1996), 10A657
Dynamic cross-interaction between flexible surface footings by combined BEM and FEM, Earthquake Eng Struct Dyn 25(5) 509-526 (May 1996), 10A1428
Accuracy of soil response estimates using soil-to-rock spectral ratios, Bull Seismol Soc Am 86(2) 519-523 (Apr 1996), 11A1401
Nonlinear seismic response analysis method for saturated soil-structure system with absorbing boundary, Int J Numer Anal Methods Geomech 20(5) 307-329 (May 1996), 11A1402
Effect of slab flexibility on interaction between two circular foundations, Earthquake Eng Struct Dyn 25(6) 561-583 (Jun 1996), 12A1395
Simplified procedure for formulation of soil-structure interaction problems, Comput Struct 60(4) 513-520 (Jun 1996), 12A1396

456F. Structural response

Evaluation of dynamic interaction effects of 2D dam-foundation-reservoir systems (Japanese), Proc JSCE 519(I-32) 199-209 (Jul 1995), 1A913
H_∞ control for seismic-excited build with acceleration feedback, J Eng Mech 121(9) 994-1002 (Sep 1995), 1A1388
Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), Proc JSCE 519(I-32) 101-113 (Jul 1995), 1A1389
Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), Proc JSCE 519(I-32) 211-222 (Jul 1995), 1A1390
Study of seismic analysis method in the cross section of underground structures by means of static FEM (Japanese), Proc JSCE 519(I-32) 139-148 (Jul 1995), 1A1391
Simplified method for evaluating the seismic buckling capacity of unstiffened steel containment structures, Nucl Eng Des 158(1) 31-45 (Sep 1995), 2A502
Inelastic response to the Cypress Viaduct to the Loma Prieta earthquake, Eng Struct 17(7) 485-493 (Aug 1995), 2A1243
Performance of base isolation systems for asymmetric building subject to random excitation, Eng Struct 17(6) 443-454 (Jul 1995), 2A1244
Seismic behavior of steel frame with added viscoelastic dampers, J Struct Eng 121(10) 1418-1426 (Oct 1995), 2A1245
Seismic performance of single-span simply supported and continuous slab-on-girder steel highway bridges, J Struct Eng 121(10) 1497-1506 (Oct 1995), 2A1246
Seismic reliability assessment of existing R-C flat-slab buildings, J Struct Eng 121(10) 1522-1530 (Oct 1995), 2A1247
Stochastic linearization of inelastic seismic torsional response: Formulation and case studies, Eng Struct 17(7) 494-504 (Aug 1995), 2A1248
TPEA device as seismic damper for high-rise buildings, J Eng Mech 121(10) 1075-1081 (Oct 1995), 2A1249
Behavior of bridge outrigger knee joint systems, Earthquake Spectra 11(3) 477-509 (Aug 1995), 3A1318
Cyclic behavior of structural steels - I: Experiments, J Eng Mech 121(11) 1158-1164 (Nov 1995), 3A1319
Cyclic behavior of structural steels - II: Theory, J Eng Mech 121(11) 1165-1172 (Nov 1995), 3A1320
Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), J Vib Eng 8(2) 119-126 (Jun 1995), 3A1321
Reliability-based dual level seismic design procedure for building structures, Earthquake Spectra 11(3) 417-429 (Aug 1995), 3A1322
Response of rigid body assemblies to dynamic excitation, Earthquake Eng Struct Dyn 24(10) 1389-1408 (Oct 1995), 3A1323
Seismic displacements of torsionally unbalanced buildings, Earthquake Eng Struct Dyn 24(10) 1371-1387 (Oct 1995), 3A1324

Seismic forces in spherical domes: Membrane solution, J Eng Mech 121(11) 1272-1275 (Nov 1995), 3A1325
Seismic performance of architectural glass in a storefront wall system, Earthquake Spectra 11(3) 367-391 (Aug 1995), 3A1326
Seismic response of asymmetric structures to multiple ground motions, J Struct Eng 121(11) 1557-1564 (Nov 1995), 3A1327
Seismic response statistics of SDOF system to exponentially modulated colored input: An explicit solution, Earthquake Eng Struct Dyn 24(10) 1355-1370 (Oct 1995), 3A1328
Stability of masonry walls subjected to seismic transverse forces, J Struct Eng 121(11) 1581-1587 (Nov 1995), 3A1329
When the doorbell rings: A case of building response to a long distance earthquake, Earthquake Eng Struct Dyn 24(10) 1343-1353 (Oct 1995), 3A1330
Use of viscoelastic dampers in reducing wind- and earthquake-induced motion of building structures, Eng Struct 17(9) 639-654 (Nov 1995), 4A219
Structural system identification using least mean square (LMS) adaptive technique, Soil Dyn Earthquake Eng 14(6) 409-418 (1995), 4A229
Hybrid control of seismic-excited bridge structures, Earthquake Eng Struct Dyn 24(11) 1437-1451 (Nov 1995), 4A374
Nondestructive damage evaluation of a structure from limited modal parameters, Earthquake Eng Struct Dyn 24(11) 1427-1436 (Nov 1995), 4A783
Dam-foundation rock interaction effects in frequency-response functions of arch dams, Earthquake Eng Struct Dyn 24(11) 1475-1489 (Nov 1995), 4A1329
Earthquake analysis of arch dams including dam-water-foundation rock interaction, Earthquake Eng Struct Dyn 24(11) 1453-1474 (Nov 1995), 4A1330
Earthquake analysis of simply supported reinforced concrete slabs, J Sound Vib 187(3) 531-539 (Nov 1995), 4T1331
Nonstationary frequency effect of the ground motion upon the strength levels of the shear type RC structures, Soil Dyn Earthquake Eng 14(6) 453-461 (1995), 4A1332
System and parametric identification of flexible connections in steel framed structures, Eng Struct 17(8) 581-595 (Sep 1995), 4A1333
Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistory frames, Earthquake Eng Struct Dyn 24(11) 1511-1525 (Nov 1995), 4A1335
Experimental study of base isolation by free rolling rods, Earthquake Eng Struct Dyn 24(12) 1645-1650 (Dec 1995), 5A167
Behavior of high ductility aseismic joint spliced piles subjected to liquefaction-induced large ground displacements (Japanese), Proc JSCE 525(I-33) 287-298 (Oct 1995), 5T554
Influence of web reinforcement on the cyclic response of structural walls, ACI Struct J 92(6) 745-756 (Dec 1995), 5T709
Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, ACI Struct J 92(6) 711-723 (Dec 1995), 5A712
Transversal seismic analysis of shield tunnels in layered half-space soils (Japanese), Proc JSCE 525(I-33) 226-235 (Oct 1995), 5A728
Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), Proc JSCE 525(I-33) 341-344 (Oct 1995), 5A1315
Aspects of energy methods for the inelastic seismic response of ductile SDOF structures, Eng Struct 18(1) 1-12 (Jan 1996), 5A1316
Displacement-based design of RC bridge columns in seismic regions, Earthquake Eng Struct Dyn 24(12) 1623-1643 (Dec 1995), 5A1317
Dynamic response of a pair of walls retaining a viscoelastic solid, Earthquake Eng Struct Dyn 24(12) 1567-1589 (Dec 1995), 5A1318
Evaluation of Surgu dam response during May 5, 1986 earthquake, Soil Dyn Earthquake Eng 15(1) 1-10 (1996), 5A1319
Experimental study on seismic responses of piping systems with friction - Part 1: Large-scale shaking table vibration test, J Pressure Vessel Tech 117(3) 245-249 (Aug 1995), 5A1320
Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, J Pressure Vessel Tech 117(3) 250-255 (Aug 1995), 5A1321
Nonlinear response of single piles under lateral inertial and seismic loads, Soil Dyn Earthquake Eng 15(1) 29-43 (1996), 5A1322
Normalized energy-based methods to predict the seismic ductile response of SDOF structures, Eng Struct 18(1) 13-28 (Jan 1996), 5A1323
Open-closed loop control of seismic response of structures with active mass driver system (Japanese), Proc JSCE 525(I-33) 201-211 (Oct 1995), 5A1324
Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), Proc JSCE 525(I-33) 69-82 (Oct 1995), 5A1325
Proposal of a seismic isolation structure for urban tunnels and the method to evaluate its isolation effects (Japanese), Proc JSCE 525(I-33) 275-285 (Oct 1995), 5A1326
Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), Proc JSCE 525(I-33) 213-225 (Oct 1995), 5A1327
Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), Proc JSCE 525(I-33) 83-95 (Oct 1995), 5T1328
Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, ACI Struct J 92(6) 765-780 (Dec 1995), 5A1329
FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), J Vib Eng 8(4) 384-388 (Dec 1995), 6A10
Behavior of asymmetric building systems under a monotonic load - I, Eng Struct 18(2) 133-141 (Feb 1996), 6A157
Behavior of asymmetric building systems under a monotonic load - II, Eng Struct 18(2) 142-153 (Feb 1996), 6A158
Modeling of nonlinear damping characteristics of a viscoelastic structural damper, Eng Struct 18(2) .154-161 (Feb 1996), 6A171
Sliding mode control for nonlinear and hysteretic structures, J Eng Mech 121(12) 1330-1339 (Dec 1995), 6A730
Sliding mode control for seismically excited linear structures, J Eng Mech 121(12) 1386-1390 (Dec 1995), 6A731
Application of BE analysis for multiple seismic cracking in concrete gravity dams, Earthquake Eng Struct Dyn 25(1) 15-30 (Jan 1996), 6A1273
Dynamic shakedown of structures under repeated seismic loads, J Eng Mech 121(12) 1306-1314 (Dec 1995), 6A1274
Investigation into the base sliding response of rigid concrete gravity dams to dynamic loading, Earthquake Eng Struct Dyn 25(1) 79-98 (Jan 1996), 6A1275
N2 method for the seismic damage analysis of RC buildings, Earthquake Eng Struct Dyn 25(1) 31-46 (Jan 1996), 6A1276
Adequate ductility in steel beams under earthquake-type loading, Eng Struct 18(2) 179-189 (Feb 1996), 6A1277
Modeling and analysis methods of bridges and their effects on seismic responses - I: Theory, Comput Struct 59(1) 81-98 (Apr 1996), 7A194
Modeling and analysis methods of bridges and their effects on seismic responses - II: Implementation, Comput Struct 59(1) 99-114 (Apr 1996), 7A195
Nonlinear hydrodynamic effects on concrete dam, Eng Struct 18(3) 201-212 (Mar 1996), 7A196
Analysis of the seismic characteristics of steel-jacketed circular bridge columns, Earthquake Eng Struct Dyn 25(2) 149-161 (Feb 1996), 7A1374
Behavior of metallic plate dampers in seismic passive energy dissipation systems, Earthquake Spectra 11(4) 545-568 (Nov 1995), 7A1375
Continuing challenge: Report on the performance of state bridges in the Northridge Eathquake, Earthquake Spectra 11(4) 607-636 (Nov 1995), 7A1376
Evaluation of earthquake ground motions to predict cracking response of gravity dams, Eng Struct 18(3) 227-239 (Mar 1996), 7A1377
Experimental verification of bounded-force control method, Earthquake Eng Struct Dyn 25(2) 179-193 (Feb 1996), 7A1378
Near-source ground motion and its effects on flexible buildings, Earthquake Spectra 11(4) 569-605 (Nov 1995), 7A1379
Problems and certainties in the experimental simulation of the seismic response of MDOF structures, Eng Struct 18(3) 213-226 (Mar 1996), 7A1380
Procedure for time-domain seismic analyses of concrete dams, J Eng Mech 122(2) 116-122 (Feb 1996), 7A1381
Experimental study of bridge seismic sliding isolation systems, Eng Struct 18(4) 301-310 (Apr 1996), 8A145
Seismic study of buildings with viscoelastic dampers, Struct Eng and Mech 3(6) 569-581 (Nov 1995), 8A158
Structural damping for soil-structure interaction studies, Struct Eng and Mech 3(2) 107-120 (Mar 1995), 8A159
High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, Struct Eng and Mech 3(3) 215-228 (May 1995), 8A759
Theory of response analysis of fuzzy stochastic dynamical systems with a single dof, Earthquake Eng Struct Dyn 25(3) 235-251 (Mar 1996), 8A761
Control of seismically excited building structures using variable damper systems, Eng Struct 18(4) 279-287 (Apr 1996), 8A1336
Critical cross-power spectral density functions and the highest response of multi-supported structures subjected to multi-component earthquake excitations, Earthquake Eng Struct Dyn 25(3) 303-315 (Mar 1996), 8A1337
Disturbance rejection control of bridge response to earthquake excitation, Earthquake Eng Struct Dyn 25(3) 291-302 (Mar 1996), 8A1338
Eccentric seismic pounding of symmetric buildings, Earthquake Eng Struct Dyn 25(3) 219-233 (Mar 1996), 8A1339
Inelastic torsional coupling of building models, Eng Struct 18(4) 288-300 (Apr 1996), 8A1340
Probabilistic model of multicomponent earthquake for rigid rectangular foundation (Chinese), J Dalian Univ Tech 35(5) 719-721 (Oct 1995), 8A1341
Seismic analysis of towers including foundation uplift, Eng Struct 18(4) 271-278 (Apr 1996), 8A1342
Seismic energy dissipation in torsionally responding building systems, Struct Eng and Mech 3(3) 255-272 (May 1995), 8A1343
Seismic isolation retrofit of large historic building, J Struct Eng 122(3) 298-308 (Mar 1996), 8A1344
Three-dimensional response analysis of long lined tunnels in half-space, Soil Dyn Earthquake Eng 15(2) 111-118 (1996), 8A1345
Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, JSME Int J Ser C 39(1) 130-136 (Mar 1996), 9A1016
Responses of long-span structures subjected to arbitrarily coherent multi-point random seismic excitations (Chinese), J Comput Struct Mech Appl 12(4) 445-452 (Nov 1995), 9A1386
Seismic probabilistic safety analysis of unit 1 of the Loviisa nuclear power plant, Nucl Eng Des 160(3) 411-426 (Feb 1996), 9A1387
Seismic reliability of electrical power transmission systems, Nucl Eng Des 160(3) 427-439 (Feb 1996), 9A1388
Seismic reliability of VVER-1000 NPP prestressed containment building, Nucl Eng Des 160(3) 387-398 (Feb 1996), 9A1389
Site effects on the seismic response of a suspension bridge, Eng Struct 18(5) 363-370 (May 1996), 9A1390
Stochastic seismic response analysis of soft soil sites, Nucl Eng Des 160(3) 363-377 (Feb 1996), 9A1391
Three-dimensional dynamic response of lined tunnels due to incident seismic waves, Earthquake Eng Struct Dyn 25(4) 357-369 (Apr 1996), 9A1392
Fragility estimation for seismically isolated nuclear structures by high confidence low probability of failure values and bi-linear regression, Nucl Eng Des 160(3) 287-297 (Feb 1996), 9A1414
Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, Nucl Eng Des 160(3) 321-332 (Feb 1996), 9A1415
Scram reliability under seismic conditions at the Experimental Breeder Reactor II, Nucl Eng Des 160(3) 399-410 (Feb 1996), 9A1416
Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), Proc JSCE 534(VI-30) 69-76 (Mar 1996), 10A920
Dam-foundation rock interaction effects in earthquake response of arch dams, J Struct Eng 122(5) 528-538 (May 1996), 10A1429
Prediction of observed response of base-isolated structure, J Struct Eng 122(5) 485-493 (May 1996), 10A1430
Response of long-span bridges to spatially varying ground motion, J Struct Eng 122(5) 476-484 (May 1996), 10A1431
Seismic behavior of older steel structures, J Struct Eng 122(4) 365-373 (Apr 1996), 10A1432
Seismic behavior of structures with flexible diaphragms, J Struct Eng 122(4) 439-445 (Apr 1996), 10A1433
Spatial seismic coefficients: Some sensitivity results, J Eng Mech 122(4) 379-382 (Apr 1996), 10A1434
Three-dimensional simulation of structural pounding during earthquakes, J Eng Mech 122(5) 423-431 (May 1996), 10A1435
Dynamic properties of a circuit breaker with friction-based seismic dampers, Earthquake Spectra 12(2) 297-314 (May 1996), 11A1403
Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, Earthquake Spectra 12(2) 185-198 (May 1996), 11A1404
Refined model for base-isolated bridges with bilinear hysteretic bearings, Earthquake Spectra 12(2) 245-273 (May 1996), 11A1405
Response of overground pipelines to random ground motion, Eng Struct 18(7) 537-545 (Jul 1996), 11A1406
Seismic analysis and design of modern steel highway connectors, Earthquake Spectra 12(2) 275-296 (May 1996), 11A1407
Seismic response of an asymmetric base isolated structure, Comput Struct 60(2) 261-267 (Jul 1996), 11A1408
Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, Earthquake Spectra 12(2) 217-244 (May 1996), 11A1409
Three dimensional analysis of tall buildings subjected to earthquake loading, Facta Univ Architec Civil Eng 1(2) 153-166 (1995), 11T1410
RC Frames Under Earthquake Loading (Telford, UK, 1996) 12N47
Time-delay effect and its solution for optimal output feedback control of structures, Earthquake Eng Struct Dyn 25(6) 547-559 (Jun 1996), 12A417
Beam global model for the seismic analysis of RC frames, Earthquake Eng Struct Dyn 25(7) 671-688 (Jul 1996), 12A1397
Comparison of linear and nonlinear seismic drift histories for midrise steel frames, Eng Struct 18(8) 577-588 (Aug 1996), 12A1398
Control of seismic-excited buildings using active variable stiffness systems, Eng Struct 18(8) 589-596 (Aug 1996), 12A1399
Deterministic sliding block methods for estimating seismic displacements of earth structures, Soil Dyn Earthquake Eng 15(4) 255-268 (1996), 12A1400
Equivalent linearization of generally pinching hysteretic, degrading systems, Earthquake Eng Struct Dyn 25(6) 611-629 (Jun 1996), 12A1401
Evaluation of the inelastic response of systems under biaxial seismic excitations, Eng Struct 18(9) 724-731 (Sep 1996), 12A1402
Seismic response of composite frames - I: Response criteria and input motion, Eng Struct 18(9) 696-706 (Sep 1996), 12A1403
Seismic response of composite frames - II: Calculation of behavior factors, Eng Struct 18(9) 707-723 (Sep 1996), 12A1404
Semi-active tuned mass dampers for seismic protection of civil structures, Earthquake Eng Struct Dyn 25(7) 743-749 (Jul 1996), 12A1405

456G. Design criteria

Design of yielding or friction-based dissipative bracings for seismic protection of buildings, Eng Struct 17(5) 381-391 (Jun 1995), 1A1392
Displacement-based seismic design of multi-dof bridge structures, Earthquake Eng Struct Dyn 24(9) 1247-1266 (Sep 1995), 1A1393
Earthquake-resistant steel frames with energy dissipating knee elements, Eng Struct 17(5) 334-343 (Jun 1995), 1A1394
Energy absorbing elements in regular and composite steel frame structures, Eng Struct 17(5) 319-333 (Jun 1995), 1A1395
Novel technique for the retrofitting of reinforced concrete structures, Eng Struct 17(5) 359-371 (Jun 1995), 1A1396
Seismic behavior of reinforced concrete frame with added viscoelastic dampers, Eng Struct 17(5) 372-380 (Jun 1995), 1A1397
Seismic evaluation of concrete dams via continuum damage models, Earthquake Eng Struct Dyn 24(9) 1225-1245 (Sep 1995), 1A1398
Seismic resistance of steel plate shear walls, Eng Struct 17(5) 344-351 (Jun 1995), 1A1399
Special truss moment frames with Vierendeel middle panel, Eng Struct 17(5) 352-358 (Jun 1995), 1A1400
Testing procedures for high output fluid viscous dampers used in building and bridge structures to dissipate seismic energy, Shock Vib 2(5) 373-381 (1995), 1A1401
Application of identification methology to shaking table tests on reinforced concrete columns, Eng Struct 17(7) 505-511 (Aug 1995), 2A1250
Evaluation of seismic torsional provisions in uniform building code, J Struct Eng 121(10) 1436-1442 (Oct 1995), 2A1251
Seismic strengthening of eight-story RC apartment building using steel braces, Eng Struct 17(6) 455-461 (Jul 1995), 2A1252
Analytical model for shear-link behavior, J Struct Eng 121(11) 1574-1580 (Nov 1995), 3A1331
Nonlinear shear-wall analysis, J Struct Eng 121(11) 1629-1634 (Nov 1995), 3A1332
Probabilistic assessment of seismic damage in ductile structures, Earthquake Eng Struct Dyn 24(10) 1333-1342 (Oct 1995), 3A1333
Inelastic design spectra accounting for soil conditions, Earthquake Eng Struct Dyn 24(11) 1491-1510 (Nov 1995), 4A1334
Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistory frames, Earthquake Eng Struct Dyn 24(11) 1511-1525 (Nov 1995), 4A1335
Retrofitting of earthquake-damaged steel buildings, Eng Struct 17(10) 749-755 (Dec 1995), 4A1336
Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, ACI Struct J 92(6) 711-723 (Dec 1995), 5A712
N2 method for the seismic damage analysis of RC buildings, Earthquake Eng Struct Dyn 25(1) 31-46 (Jan 1996), 6A1276
Adequate ductility in steel beams under earthquake-type loading, Eng Struct 18(2) 179-189 (Feb 1996), 6A1277
Design of energy dissipation devices based on concept of damage control, J Struct Eng 122(1) 76-82 (Jan 1996), 6A1278
Dynamic response of box tubes to combined shear and torsion, J Struct Eng 122(1) 47-54 (Jan 1996), 6A1279
Experimental study of FPS system in bridge seismic isolation, Earthquake Eng Struct Dyn 25(1) 65-78 (Jan 1996), 6A1280

Experimental verification of H_∞ and sliding mode control for seismically excited buildings, J Struct Eng 122(1) 69-75 (Jan 1996), 6A1281
Numerical analysis and design implications of the seismic behavior of one-story steel bracing systems, Eng Struct 18(2) 162-178 (Feb 1996), 6A1282
Parameters in bridge restrainer design for seismic retrofit, J Struct Eng 122(1) 61-68 (Jan 1996), 6A1283
Testing of energy dissipating cladding connections, Earthquake Eng Struct Dyn 25(2) 129-147 (Feb 1996), 7A1382
Prediction of horizontal response spectra in Europe, Earthquake Eng Struct Dyn 25(4) 371-400 (Apr 1996), 9A1393
Prediction of vertical response spectra in Europe, Earthquake Eng Struct Dyn 25(4) 401-412 (Apr 1996), 9A1394
Effect of modeling assumptions and input motion characteristics on seismic design parameters of RC bridge piers, Earthquake Eng Struct Dyn 25(5) 435-463 (May 1996), 10A1436
Energy input and dissipation behavior of structures with hysteretic dampers, Earthquake Eng Struct Dyn 25(5) 483-496 (May 1996), 10A1437
Note on damage-based inelastic spectra, Earthquake Eng Struct Dyn 25(5) 421-433 (May 1996), 10A1438
Revised rule for concept of strong column weak girder design, J Struct Eng 122(4) 359-364 (Apr 1996), 10A1439
Seismic torsional provisions: Influence on element energy dissipation, J Struct Eng 122(5) 494-500 (May 1996), 10A1440
Equivalent linear model of lead-rubber seismic isolation bearings, Eng Struct 18(7) 528-536 (Jul 1996), 11A154
Evaluation of UBC-04 provisions for seismic design of RC structural walls, Earthquake Spectra 12(2) 327-348 (May 1996), 11A1411
Evolutionary-degrading hysteretic model for thin-walled steel structures, Eng Struct 18(7) 504-514 (Jul 1996), 11A1412
Effectiveness of active tuned mass damper and seismic isolation on vibration control of multi-story building, J Sound Vib 193(4) 773-792 (Jun 1996), 12A1406
Inelastic large deflection analysis of structural steel members under cyclic loading, Eng Struct 18(9) 659-668 (Sep 1996), 12A1407
Linear quadratic regulator for structure under on-line predicted future seismic excitation, Earthquake Eng Struct Dyn 25(6) 631-644 (Jun 1996), 12A1408

456H. Seismic hydrodynamics

Why the L_g phase does not traverse oceanic crust, Bull Seismol Soc Am 85(6) 1665-1678 (Dec 1995), 6A1237
April 9, 1993 earthquake in south-central Texas: Was it induced by fluid withdrawal?, Bull Seismol Soc Am 85(6) 1888-1895 (Dec 1995), 6A1271
Spectral characteristics of strong ground motions in terms of peak values, Proc JSCE 531(I-34) 35-49 (Jan 1996), 9A1395
Analytical study on excitation of nuclear-coupled thermal hydraulic instability due to seismically induced resonance in BWR, Nucl Eng Des 162(2-3) 307-315 (Apr 1996), 11A1425

456J. Simulation

Formulation of impulsive response of an elastic layered half space using the eigenmodes given by the characteristic equation (Japanese), Proc JSCE 519(I-32) 149-159 (Jul 1995), 1A212
Self-healing slip pulse on a frictional surface, J Mech Phys Solids 43(9) 1461-1495 (Sep 1995), 1A1402
Considerations by wavelet analysis for earthquake waves (Japanese), Proc JSCE 525(I-33) 261-274 (Oct 1995), 5A1330
Structural reliability estimation using Monte Carlo simulation and Pearson's curves, Struct Eng and Mech 3(3) 201-213 (May 1995), 8A736
Application of off-line and on-line identification techniques to building seismic response data, Earthquake Eng Struct Dyn 25(3) 269-290 (Mar 1996), 8A1346

456Y. Computational techniques

Simulation of earthquake ground motion and structural response, Acta Polytech Scand Civil Eng Build 0(102) 2-30 (1995), 1A1403
Simulating strong motions of large earthquakes using recordings of small earthquakes: The Loma Prieta mainshock as a test case, Bull Seismol Soc Am 85(4) 1144-1160 (Aug 1995), 2A1253
Multifrequency shielding behavior of cylindrical overburden covering concentric elongated ore deposits, Acta Geophys Polonica 43(1) 63-74 (1995), 3A1292
Assessment of potential strength of an induced earthquake by using fuzzy multifactorial evaluation, Pure Appl Geophys 145(1) 149-153 (Oct 1995), 3A1334
Conditional simulation of non-Gaussian random fields for earthquake monitoring systems, Chaos Solitons Fractals 5(1) 91-101 (Jan 1995), 3A1335
Effectiveness of block iterative schemes in computing the seismic response of buildings with nonlinear base isolation, Comput Struct 58(1) 133-141 (Jan 1996), 3A1336
Improving the shallow seismic sections by microcomputer automated static corrections, Acta Geophys Polonica 43(1) 1-9 (1995), 3A1337
Numerical source implementation in a 2D finite difference scheme for wave propagation, Bull Seismol Soc Am 85(5) 1507-1512 (Oct 1995), 3A1338
Simulation of the seismic response of a 2D sedimentary basin: A comparison between the indirect BEM and a hybrid technique, Bull Seismol Soc Am 85(5) 1501-1506 (Oct 1995), 3A1339
Optimality in the estimation of a MA system from a long AR model for simulation studies, Soil Dyn Earthquake Eng 14(6) 445-452 (1995), 4A1337
Seismic hazard analysis: Computer validation, Comput Struct 58(4) 679-688 (Feb 1996), 4A1338
Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, ACI Struct J 92(6) 711-723 (Dec 1995), 5A712
Critical earthquake input power spectral density function models for engineering structures, Earthquake Eng Struct Dyn 24(12) 1549-1566 (Dec 1995), 5A1331
Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), Proc JSCE 525(I-33) 299-308 (Oct 1995), 5T1332
Smoothing function suitable for estimation of amplification factor of the surface ground from microtremor and its application (Japanese), Proc JSCE 525(I-33) 247-259 (Oct 1995), 5T1333
Time domain procedure of FE-BE-IBE coupling for seismic interaction of arch dams and canyons, Earthquake Eng Struct Dyn 24(12) 1651-1666 (Dec 1995), 5A1334
Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, Bull Seismol Soc Am 85(6) 1679-1687 (Dec 1995), 6A1247
Interface model for analysis of deformation behavior of discontinuities, Int J Numer Anal Methods Geomech 20(1) 1-33 (Jan 1996), 6A1250
Locally generated surface waves in Santa Clara Valley: Analysis of observations and numerical simulation, Earthquake Eng Struct Dyn 25(1) 47-63 (Jan 1996), 6A1284
Numerical modeling of fault-zone trapped waves: Acoustic case, Bull Seismol Soc Am 85(6) 1711-1717 (Dec 1995), 6A1285
Simple elastic finite-difference scheme, Bull Seismol Soc Am 85(6) 1879-1887 (Dec 1995), 6A1286
Clarification of the orthogonal effects in a 3D seismic analysis, Earthquake Spectra 11(4) 659-666 (Nov 1995), 7A1383
Modeling unknown structural systems through the use of neural networks, Earthquake Eng Struct Dyn 25(2) 117-128 (Feb 1996), 7A1384
Local optimization technique for the solution of the problem of nonlinear seismic tomography, Appl Math letters 9(2) 39-45 (Mar 1996), 8A1347
Modeling fragmentation in 2D, Pure Appl Geophys 146(1) 115-129 (Feb 1996), 8A1348
Nonlinear predictions of Ap by activity class and numerical value, Pure Appl Geophys 146(1) 163-193 (Feb 1996), 8A1349
Simplified response-spectrum seismic analysis of nonlinear structures, J Eng Mech 122(3) 282-285 (Mar 1996), 8A1350
Earthquake analysis of gravity dam-reservoir systems using the Eulerian and Lagrangian approaches, Comput Struct 59(5) 877-890 (Jun 1996), 9A1396
Evaluation of some implicit time-stepping algorithms for pseudodynamic tests, Earthquake Eng Struct Dyn 25(4) 333-355 (Apr 1996), 9A1397
Regional moments, energy levels, and a new discriminant, Pure Appl Geophys 146(2) 281-304 (Mar 1996), 10A1441
Application of genetic algorithms to an inversion of surface-wave dispersion data, Bull Seismol Soc Am 86(2) 436-444 (Apr 1996), 11A1368
Monte Carlo simulation of peak-acceleration attenuation using a finite-fault uniform-patch model including isochrone and extrenal characteristics, Bull Seismol Soc Am 86(1A) 79-92 (Feb 1996), 11A1375
Reduction factors for base isolated structures, Comput Struct 60(6) 945-956 (Jul 1996), 12A1409

456Z. Experimental methods

Seismic load tests on two-story waffle-flat-plate structure, J Struct Eng 121(9) 1287-1293 (Sep 1995), 1A1404
Full-scale viscoelastically damped steel frame, J Struct Eng 121(10) 1443-1447 (Oct 1995), 2A1254
Electric signals recorded during uniaxial compression of rock samples: Their possible correlation with preseismic electric signals, Acta Geophys Polonica 43(1) 49-61 (1995), 3A1299
Pseudo-dynamic testing using conventional testing devices, Earthquake Eng Struct Dyn 24(10) 1409-1422 (Oct 1995), 3A1340
Source scaling and moment estimation for the Pacific Northwest seismograph network using S-coda amplitudes, Bull Seismol Soc Am 85(5) 1309-1326 (Oct 1995), 3A1341
Recording teleseismic earthquakes using ocean-bottom seismographs at mid-ocean ridges, Bull Seismol Soc Am 85(6) 1648-1664 (Dec 1995), 6A1260
Testing a model of earthquake nucleation, Bull Seismol Soc Am 85(6) 1873-1878 (Dec 1995), 6A1262
Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, Bull Seismol Soc Am 85(6) 1847-1857 (Dec 1995), 6A1287
Inadvertent changes in magnitude reported in earthquake catalogs: Their evaluation through b-value estimates, Bull Seismol Soc Am 85(6) 1858-1866 (Dec 1995), 6A1288
Instrument responses of the SKM-3 system and the designated seismic station vault seismic system, Bull Seismol Soc Am 85(6) 1835-1846 (Dec 1995), 6A1289
Seismic behavior estimation of thin alluvium layers using microtremor recordings, Soil Dyn Earthquake Eng 15(3) 201-209 (1996), 9A1398
Heuristic spectral estimation of bivariate nonstationary processes, Meccanica 31(2) 207-218 (Apr 1996), 11A100
Accuracy of seismic estimates of dynamic strains: An evaluation using strainmeter and seismometer data from Pinon Flat Observatory, California, Bull Seismol Soc Am 86(1A) 212-220 (Feb 1996), 11A1382
Are L_g spectra from NTS explosions self-similar?, Bull Seismol Soc Am 86(2) 445-456 (Apr 1996), 11A1383
Array observations of the shear-coupled PL wave, Bull Seismol Soc Am 86(2) 538-543 (Apr 1996), 11A1384
Earthquake site response in Santa Cruz, California, Bull Seismol Soc Am 86(1A) 55-65 (Feb 1996), 11A1385
Improved air-powered impulsive shear-wave source, Bull Seismol Soc Am 86(2) 530-537 (Apr 1996), 11A1387
Instrument responses of digital seismographs at Borovoye, Kazakhstan, by inversion of transient calibration pulses, Bull Seismol Soc Am 86(1A) 191-203 (Feb 1996), 11A1388
Monitoring nuclear test sites with GERESS, Bull Seismol Soc Am 86(1A) 172-190 (Feb 1996), 11A1390
Observation of shallow anisotropy on local earthquake records at the Garner Valley, Southern California, Downhole Array, Bull Seismol Soc Am 86(2) 477-488 (Apr 1996), 11A1391
P-wave backazimuth anomalies observed by a small-aperture seismic array at Pinyon Flat, Southern California: Implications for structure and source location, Bull Seismol Soc Am 86(2) 470-476 (Apr 1996), 11A1392
Precariously balanced rocks and ground-motion maps for southern California, Bull Seismol Soc Am 86(1A) 43-54 (Feb 1996), 11A1393
Reliable and economical high-temperature deep-borehole seismic recording, Bull Seismol Soc Am 86(1A) 204-211 (Feb 1996), 11A1394
Signal detection using multi-channel seismic data, Bull Seismol Soc Am 86(1A) 221-231 (Feb 1996), 11A1397

458. HYDROLOGY, OCEANOLOGY, METEOROLOGY

458B. Hydrology

Ocean waves and sea ice, Annu Rev Fluid Mech 27 115-168 (1995), 2A177
Stochastic analysis of multiphase flow in porous media - 1: Spectral-perturbation approach, Stochastic Hydrology Hydraul 9(3) 239-267 (Sep 1995), 2T1219
Exploratory spectral analysis of hydrological time series, Stochastic Hydrology Hydraul 9(3) 171-205 (Sep 1995), 2T1255
Mixed FEs for accurate particle tracking in saturated groundwater flow, Adv Water Resources 18(5) 277-294 (1995), 2A1256
Variable boundary model of storm surge flooding in generalized curvilinear grids, Int J Numer Methods Fluids 21(8) 641-651 (Oct 1995), 2A1257
Atmospheric water balance and global hydrologic cycle (Japanese), Proc JSCE 521(II-32) 13-27 (Aug 1995), 3A1342
Runoff prediction by simple tank model using recession curves, J Hydraul Eng 121(11) 812-818 (Nov 1995), 3T1343
Multi-phase flow modeling of air sparging, Adv Water Resources 18(6) 319-333 (1995), 4A1339
Semi-arid zones and their hydrological modeling: Rainfall-runoff (Spanish), Ingenieria Hidraul Mex 10(2) 21-31 (1995), 4T1340
Boundary condition sensitivity analysis of the stochastic flow equation, Adv Water Resources 19(2) 109-120 (1996), 5A1335
Hillside seepage and the steady water table - I: Theory, Adv Water Resources 19(2) 63-73 (1996), 5T1336
Stochastic analysis of unsaturated transport in soils with fractal log-conductivity distribution, Stochastic Hydrology Hydraul 9(4) 297-323 (Dec 1995), 5A1337
Diffusion approximation for a network of reservoirs with power law release rule, Stochastic Hydrology Hydraul 10(1) 17-37 (Feb 1996), 8T1351
Search for physically based runoff model - A hydrologic el dorado ?, J Hydraul Eng 122(3) 122-129 (Mar 1996), 8A1352
Simplified stochastic model for infiltration into a heterogeneous soil forced by random precipitation, Adv Water Resources 19(3) 133-144 (Jun 1996), 8A1353
Determination of parameters of hydrologic model considering effect of human activity on runoff (Chinese), J Dalian Univ Tech 35(3) 400-404 (Jun 1995), 8A1444
Stream-aquifer interaction model with diffusive wave routing, J Hydraul Eng 122(4) 210-218 (Apr 1996), 9T1055
Volumetric leaky-aquifer theory and type straight lines, J Hydraul Eng 122(5) 272-280 (May 1996), 10T1459
Nonlinear estimation of spatial distribution of rainfall: An indicator cokriging approach, Stochastic Hydrology Hydraul 10(2) 127-150 (May 1996), 11T1413
Simple model for unsteady buoyancy-driven abyssal circulation, Geophys Astrophys Fluid Dyn 81(3-4) 131-158 (Dec 1995), 11T1414
Closed-form solutions for unsaturated flow under variable flux boundary conditions, Adv Water Resources 19(4) 207-213 (1996), 12T1413

458C. Physical oceanography (currents, waves, etc)

Series solution of the nonlinear wind-driven ocean circulation and its inertial limit, J Fluid Mech 295 61-89 (Jul 1995), 1A1405
Ocean Acoustic Tomography - Monographs on Mechanics Series (Cambridge UP, UK, 1995) 2R52
Edge waves along periodic coastlines - Part 2, J Fluid Mech 297 307-325 (Aug 1995), 2A174
Biological-physical interactions in the upper ocean: The role of vertical and small scale transport processes, Annu Rev Fluid Mech 27 225-255 (1995), 2A1258
Fluid flow in loops driven by freshwater and heat fluxes, J Fluid Mech 297 153-191 (Aug 1995), 2A1259
Thermohaline ocean processes and models, Annu Rev Fluid Mech 27 89-113 (1995), 2A1260
Modified reduced gravity model for interannual variations of a sub-tropical ocean, Geophys Astrophys Fluid Dyn 80(1-2) 1-24 (Sep 1995), 3T1344
Tsunamis: 1992-1994 - Their generation, dynamics, and hazard, Pure Appl Geophys 144(3-4) 381-890 (Aug 1995), 3A1345
Langmuir circulations when the Stokes drift has a cross-wind component, Eur J Mech B 14(5) 523-555 (1995), 4A264
Frequency-wavenumber structure of the tropical ocean-atmosphere system, Tellus 47A(5:2) 998-1012 (Oct 1995), 4T1341
Improving a one-layer ocean model with thermodynamics, J Fluid Mech 303 169-201 (Nov 1995), 4A1342
Numerical solution of two-layer, 2D tidal flow in a boundary-fitted orthogonal curvilinear co-ordinate system, Int J Numer Methods Fluids 21(11) 1087-1107 (Dec 1995), 4A1343
Special issue with papers presented at the International Symposium "The life cycles of extratropical cyclones" in Bergen, Norway, June 27-July

1, 1994, Tellus 47A(5:1) 525-919 (Oct 1995), 4A1344
Propagation of an envelope Rossby soliton over topography, Dyn Atmos Oceans 22(4) 199-211 (Dec 1995), 5A199
Subgrid modeling of moveable-bed bottom friction in wind wave models, Coastal Eng 26(1-2) 57-75 (Sep 1995), 5A204
Stuart vortices on a beta-plane, Dyn Atmos Oceans 22(4) 213-238 (Dec 1995), 5T878
Dynamic effect of open latitude on wind-driven circulation in a zonal β-plane channel, Dyn Atmos Oceans 22(4) 179-198 (Dec 1995), 5T1338
Numerical simulation of coastal upwelling and interfacial instability of a rotating and stratified fluid, J Fluid Mech 305 47-75 (Dec 1995), 6A906
Onset of stratification in the mixed layer subjected to a stabilizing buoyancy flux, J Fluid Mech 304 27-46 (Dec 1995), 6A993
Modeling the oceanic general circulation, Annu Rev Fluid Mech 28 215-248 (1996), 6A1290
Radiation boundary conditions in barotropic coastal ocean numerical models, J Comput Phys 123(1) 96-110 (Jan 1996), 6A1291
Triple annual maximum series in wave climate analyses, Coastal Eng 26(3-4) 135-151 (Dec 1995), 7T268
Numerical experiments on low-frequency fluctuations on a submerged coastal reef, Coastal Eng 26(3-4) 271-289 (Dec 1995), 7T1385
Steady quasi-geostrophic flow component formation over undulating bottom topography - Part II: A two-layer low-order model of the open ocean, Geophys Astrophys Fluid Dyn 80(3-4) 145-166 (Nov 1995), 7T1386
Laboratory simulation of mixing across tidal fronts, J Fluid Mech 309 321-344 (Feb 1996), 8A983
Confinement result on a quasigeostrophic flow in the f-plane, Z Angew Math Phys 47(1) 16-27 (Jan 1996), 8A1354
Idealized long-term morphodynamic model of a tidal embayment, Eur J Mech B 15(1) 55-80 (1996), 8A1355
Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, J Fluid Mech 309 85-91 (Feb 1996), 8A1356
Manifestations of bottom topography on the ocean surface: The physical mechanism for large scales, J Fluid Mech 308 313-340 (Feb 1996), 8A1357
Mixing in the ocean produced by tropical cyclones, Tellus 48A(2) 342-355 (Mar 1996), 8T1358
Mixing induced meridional motion of modons, Geophys Astrophys Fluid Dyn 81(1-2) 1-20 (Dec 1995), 8A1359
Note on the stability theory of buoyancy-driven ocean currents over a sloping bottom, Z Angew Math Phys 47(1) 28-38 (Jan 1996), 8A1360
Boundary conditions in shallow water models: An alternative implementation for FE codes, Int J Numer Methods Fluids 22(7) 603-618 (Apr 1996), 9A39
Stable and unstable monopolar vortices in a stratified fluid, J Fluid Mech 311 257-287 (Mar 1996), 9A1063
Convection in a long box driven by heating and cooling on the horizontal boundaries, J Fluid Mech 310 61-87 (Mar 1996), 9A1072
Nonlinear shear instabilities of alongshore currents on plane beaches, J Fluid Mech 310 181-213 (Mar 1996), 9A1171
Velocity profile in shallow coastal waters, J Hydraul Eng 122(4) 220-223 (Apr 1996), 9T1399
Initial response of a stratified lake to a surface shear stress, J Fluid Mech 312 39-66 (Apr 1996), 10A1442
Stationary drift-Rosaby vortices of elliptic boundary in a background shear flow, J Phys Soc Japan 65(4) 899-901 (Apr 1996), 10A1443
Vertical discretization in tidal flow simulations, Int J Numer Methods Fluids 22(9) 815-834 (May 1996), 10A1444
Chaotic advection by Rosaby-Haurwitz waves, Fluid Dyn Res 18(1) 1-16 (Jun 1996), 11T83
Stability of a potential vorticity front: From quasi-geostrophy to shallow water, J Fluid Mech 315 65-84 (May 1996), 11A982
Observations of the high-frequency range of the wave spectrum, J Offshore Mech Arctic Eng 118(2) 89-95 (May 1996), 11A1415
Two-dimensional vortex dynamics in a stratified barotropic fluid, J Fluid Mech 314 139-161 (May 1996), 11A1416
Advection-diffusion processes and residence times in semienclosed marine basins, Int J Numer Methods Fluids 22(12) 1207-1229 (Jun 1996), 12A1410
Inconsistency between two classical models of the ocean buoyancy driven circulation, Tellus 48A(3) 477-481 (May 1996), 12T1411
Stability of the thermohaline circulation in a simple coupled model, Tellus 48A(3) 465-476 (May 1996), 12A1412
Method to solve the advection - Dispersion equation with a kinetic adsorption isotherm, Adv Water Resources 19(4) 193-206 (1996), 12A1424
Horizontal fractionation of rising and sinking particles in wind-affected currents, J Fluid Mech 316 325-334 (Jun 1996), 12A1439

458D. Heat transfer in H and O

Closed-form solutions for unsaturated flow under variable flux boundary conditions, Adv Water Resources 19(4) 207-213 (1996), 12T1413

458E. Computational techniques in H and O

Return periods and encounter probabilities, Appl Ocean Res 17(2) 127-136 (1995), 5A1339

458F. Experimental techniques in H and O

Application of mechanical waves induced by piezofilms to marine fouling protection of oceanographic sensors, Smart Mat Struct 4(3) 195-201 (Sep 1995), 2A1261
Four-dimensional data assimilation with a wide range of scales, Tellus 47A(5:2) 974-997 (Oct 1995), 4T1345

458G. Physical meteorology

Impact of global climate change on temperature and precipitation in Greece, Appl Math Comput 71(2-3) 119-150 (Sep 1995), 1T1406
Dynamics of Jovian atmospheres, Annu Rev Fluid Mech 27 293-334 (1995), 2A1262
Efficient PBL model for global circulation models: Design and validation, Boundary-Layer Meteorol 75(1-2) 25-59 (Jul 1995), 2A1263
Stability and wind shear effects on meso-scale cellular convection, Boundary-Layer Meteorol 75(3) 263-285 (Aug 1995), 3T1346
Frequency-wavenumber structure of the tropical ocean-atmosphere system, Tellus 47A(5:2) 998-1012 (Oct 1995), 4T1341
Orographic and stability effects on valley-side drainage flows, Boundary-Layer Meteorol 75(4) 403-428 (Sep 1995), 4A1347
Stuart vortices on a beta-plane, Dyn Atmos Oceans 22(4) 213-238 (Dec 1995), 5T878
Onset of separation in neutral, turbulent flow over hills, Boundary-Layer Meteorol 76(1-2) 137-164 (Oct 1995), 5A1341
Ellipticity condition of the Monge-Ampere equation in the solenoidal model, J Tech Phys 36(3) 299-315 (1995), 6A1292
Spectra, variances and length scales in a marine stable boundary layer dominated by a low level jet, Boundary-Layer Meteorol 76(3) 211-232 (Nov 1995), 6A1294
Thunderstorm III 4-megahertz burst-mode data acquisition system, J Spacecraft Rockets 33(1) 92-95 (Feb 1996), 7A304
Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, J Fluid Mech 309 85-91 (Feb 1996), 8A1356
Mixing in the ocean produced by tropical cyclones, Tellus 48A(2) 342-355 (Mar 1996), 8T1358
Energy balance in the Ramdas layer, Boundary-Layer Meteorol 76(4) 307-321 (Dec 1995), 8A1365
Barotropic instabilities of the type of self-organization in zonal westerly flow, J Tech Phys 36(4) 501-516 (1995), 9A8
Characteristics of the discharge between precipitation particles in cloud, Acta Geophys Polonica 43(3) 247-271 (1995), 9T1400
Correlations between short-period fluctuations of the Maxwellian current at Hornsund (Spitsbergen) and Jozefoslaw (Poland), Acta Geophys Polonica 43(3) 273-279 (1995), 9A1401
Effects of the galactic cosmic ray variations on the cloudiness state, J Tech Phys 36(4) 363-373 (1995), 9A1402
Influence of solar cosmic ray bursts on the temperature of the high-latitudinal atmosphere, J Tech Phys 36(4) 433-443 (1995), 9A1403
Stability problem of the non-hydrostatic 2D model of air flow in the lower troposphere: Orographic effects and the telescopic method, J Tech Phys 36(4) 445-475 (1995), 9A1404
Hydrometeorology: Proc from MIT/CNR meeting, Perugia, June 1994 and GNDCI Decade Celebration, Rome, December 1994, Meccanica 31(1) 3-127 (Feb 1996), 10T1445
Flow dynamics in a trough blowout, Boundary-Layer Meteorol 77(3-4) 305-330 (Feb 1996), 12T1414
Atmospheric boundary layer - Advances in knowledge and application, Boundary-Layer Meteorol 78(1-2) 9-37 (Feb 1996), 12A1420

458K. Atmospheric turbulence, storms

Wavelets in Geophysics - Wavelet Analysis and Its Applications Series, Vol 4 (Academic, San Diego, CA, 1994) 1N37
Fluctuations of the horizontal wind under unstable conditions, Boundary-Layer Meteorol 74(4) 341-352 (Jun 1995), 1T1407
Z-less stratification under stable conditions, Boundary-Layer Meteorol 75(1-2) 175-187 (Jul 1995), 2T1264
Study on interaction between turbulence generated by uniformly falling particles and oscillating grid turbulence, Proc JSCE 521(II-32) 49-58 (Aug 1995), 3A1347
Flow and transport modeling in the sea-breeze - Part II: Flow model application and pollutant transport, Boundary-Layer Meteorol 75(3) 209-234 (Aug 1995), 3T1348
Exploration of Chaos (Elsevier Science, Netherlands, 1994) 4R3
Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), Proc JSCE 522(VI-28) 133-142 (Sep 1995), 4T619
Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), Proc JSCE 522(VI-28) 97-106 (Sep 1995), 4A818
Determination of zero-plane displacement and roughness length of a forest canopy using profiles of limited height, Boundary-Layer Meteorol 75(4) 381-402 (Sep 1995), 4T1346
Turbulence in the ocean, atmosphere, galaxy, and universe, Appl Mech Rev 49(5) 299-315 (May 1996), 7A1128
Cloud perturbations of temperature and humidity: A LES study, Boundary-Layer Meteorol 76(4) 377-386 (Dec 1995), 8A1361
E-ε modeling of turbulent air flow downwind of a model forest edge, Boundary-Layer Meteorol 77(1) 21-44 (Jan 1996), 8T1362
Evolution of cool skin and direct air-sea transfer coefficient during daytime, Boundary-Layer Meteorol 77(1) 45-68 (Jan 1996), 8T1363
Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, Boundary-Layer Meteorol 77(2) 173-207 (Jan 1996), 11A1434
Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, Boundary-Layer Meteorol 77(3-4) 267-284 (Feb 1996), 12A1415
Experimental investigation of microbursts, Exp Fluids 21(1) 17-25 (May 1996), 12A1416
Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, Tellus 48A(3) 442-455 (May 1996), 12T1417
Applicability of numerical mass-consistent wind field models, Boundary-Layer Meteorol 77(3-4) 379-394 (Feb 1996), 12A1419

458L. Heat transfer in the atmosphere

Flow and transport modeling in the sea-breeze - Part II: Flow model application and pollutant transport, Boundary-Layer Meteorol 75(3) 209-234 (Aug 1995), 3T1348
Relationship of surface heat flux to microscale temperature variations: Application to BOREAS, Boundary-Layer Meteorol 76(3) 291-301 (Nov 1995), 6T1293
Heat islands influence on the Dispersion of Contaminants by the atmosphere, J Brazilian Soc Mech Sci 17(3) 314-321 (1995), 7A1387
Stability problem of the non-hydrostatic 2D model of air flow in the lower troposphere: Orographic effects and the telescopic method, J Tech Phys 36(4) 445-475 (1995), 9A1404
Moisture-transfer coefficient for climate models, Boundary-Layer Meteorol 77(3-4) 401-407 (Feb 1996), 12A1418

458M. Atmospheric boundary layer, terrain effects

Fluctuations of the horizontal wind under unstable conditions, Boundary-Layer Meteorol 74(4) 341-352 (Jun 1995), 1T1407
Nonlinear symmetric stability of planetary atmospheres, J Fluid Mech 296 391-407 (Aug 1995), 1A1408
Z-less stratification under stable conditions, Boundary-Layer Meteorol 75(1-2) 175-187 (Jul 1995), 2T1264
Analysis of similarity laws in a pressure-gradient boundary layer over gentle obstacles, Boundary-Layer Meteorol 75(1-2) 61-80 (Jul 1995), 2A1265
Stable boundary layers: Observations, models and variability - Part II: Data analysis and averaging effects, Boundary-Layer Meteorol 75(1-2) 1-24 (Jul 1995), 2T1266
Numerical weather prediction, Annu Rev Fluid Mech 27 195-224 (1995), 2A1267
Further note "On the magnitude and apparent range of variation of the von Karman constant", Boundary-Layer Meteorol 75(3) 315-317 (Aug 1995), 3T970
Resolved-scale turbulence in the atmospheric surface layer from a large eddy simulation, Boundary-Layer Meteorol 75(3) 301-314 (Aug 1995), 3A1349
Special issue with papers presented at the International Symposium "The life cycles of extratropical cyclones" in Bergen, Norway, June 27-July 1, 1994, Tellus 47A(5:1) 525-919 (Oct 1995), 4A1344
Determination of zero-plane displacement and roughness length of a forest canopy using profiles of limited height, Boundary-Layer Meteorol 75(4) 381-402 (Sep 1995), 4T1346
Orographic and stability effects on valley-side drainage flows, Boundary-Layer Meteorol 75(4) 403-428 (Sep 1995), 4A1347
Derivation of the relationship between the Obukhov stability parameter and the bulk Richardson number for flux-profile studies, Boundary-Layer Meteorol 76(1-2) 165-179 (Oct 1995), 5A964
Model for separated laminar flow over a wavy boundary with sharp crests, Math Eng Industry 5(3) 211-234 (1995), 5A1340
Onset of separation in neutral, turbulent flow over hills, Boundary-Layer Meteorol 76(1-2) 137-164 (Oct 1995), 5A1341
Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, Boundary-Layer Meteorol 76(1-2) 41-67 (Oct 1995), 5T1361
Relationship of surface heat flux to microscale temperature variations: Application to BOREAS, Boundary-Layer Meteorol 76(3) 291-301 (Nov 1995), 6T1293
Spectra, variances and length scales in a marine stable boundary layer dominated by a low level jet, Boundary-Layer Meteorol 76(3) 211-232 (Nov 1995), 6A1294
Numerical experiments on low-frequency fluctuations on a submerged coastal reef, Coastal Eng 26(3-4) 271-289 (Dec 1995), 7T1385
Wind tunnel experiment on flow and tracer gas diffusion in convective planetary boundary layer, JSME Int J Ser B 39(1) 19-27 (Feb 1996), 7A1388
Evolution of cool skin and direct air-sea transfer coefficient during daytime, Boundary-Layer Meteorol 77(1) 45-68 (Jan 1996), 8T1363
Atmosphere and Earth's rotation, Surveys Geophys 17(1) 101-144 (Jan 1996), 8A1364
Energy balance in the Ramdas layer, Boundary-Layer Meteorol 76(4) 307-321 (Dec 1995), 8A1365
Turbulence modeling over 2D hills using an algebraic Reynolds Stress expression, Boundary-Layer Meteorol 77(1) 69-99 (Jan 1996), 8T1366
One-dimensional checkerboards and blending heights, Boundary-Layer Meteorol 77(2) 135-151 (Jan 1996), 11T1418
Flow dynamics in a trough blowout, Boundary-Layer Meteorol 77(3-4) 305-330 (Feb 1996), 12T1414
Applicability of numerical mass-consistent wind field models, Boundary-Layer Meteorol 77(3-4) 379-394 (Feb 1996), 12A1419
Atmospheric boundary layer - Advances in knowledge and application, Boundary-Layer Meteorol 78(1-2) 9-37 (Feb 1996), 12A1420
Bulk aerodynamic formulation over heterogeneous surfaces, Boundary-Layer Meteorol 78(1-2) 87-119 (Feb 1996), 12T1421
RE (Ted) Munn - Founding editor: A mini-biography, Boundary-Layer Meteorol 78(1-2) 3-8 (Feb 1996), 12A1422
Von Karman constant determined by large eddy simulation, Boundary-Layer Meteorol 78(1-2) 143-164 (Feb 1996), 12A1423

458P. Applied meteorology (engineering applications, etc)

Numerical weather prediction, Annu Rev Fluid Mech 27 195-224 (1995), 2A1267
Effect of surroundings and roof corner geometric modifications on roof pressures on low-rise buildings, J Wind Eng Indust Aerodyn 58(1-2) 113-138 (Oct 1995), 4A1348
Hydrometeorology: Proc from MIT/CNR meeting, Perugia, June 1994 and GNDCI Decade Celebration, Rome, December 1994, Meccanica 31(1) 3-127 (Feb 1996), 10T1445
Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, Tellus 48A(3) 442-455 (May 1996), 12T1417
Atmospheric boundary layer - Advances in knowledge and application, Boundary-Layer Meteorol 78(1-2) 9-37 (Feb 1996), 12A1420

RE (Tod) Munn - Founding editor: A mini-biography, Boundary-Layer Meteorol **78**(1-2) 3-8 (Feb 1996), 12A1422

Dosages from instantaneous releases of dense gases in wind tunnels and into a neutrally stable atmosphere, Boundary-Layer Meteorol **77**(3-4) 211-231 (Feb 1996), 12A1438

458Y. Computational techniques in meteorology

Variable boundary model of storm surge flooding in generalized curvilinear grids, Int J Numer Methods Fluids **21**(8) 641-651 (Oct 1995), 2A1257

Use of a reformulation of the hydrostatic approximation Navier-Stokes equations for geophysical fluid problems, Int J Numer Methods Fluids **21**(7) 549-570 (Oct 1995), 2A1268

Resolved-scale turbulence in the atmospheric surface layer from a large eddy simulation, Boundary-Layer Meteorol **75**(3) 301-314 (Aug 1995), 3A1349

Numerical solution of two-layer, 2D tidal flow in a boundary-fitted orthogonal curvilinear co-ordinate system, Int J Numer Methods Fluids **21**(11) 1087-1107 (Dec 1995), 4A1343

Massively parallel processing in coastal ocean circulation model, J Sci Comput **10**(3) 305-323 (Sep 1995), 4A1349

Modeling the oceanic general circulation, Annu Rev Fluid Mech **28** 215-248 (1996), 6A1290

Radiation boundary conditions in barotropic coastal ocean numerical models, J Comput Phys **123**(1) 96-110 (Jan 1996), 6A1291

Data-parallel numerical methods in a weather forecast model, Appl Numer Math **19**(1-2) 159-171 (Nov 1995), 6A1295

Wind tunnel experiment on flow and tracer gas diffusion in convective planetary boundary layer, JSME Int J Ser B **39**(1) 19-27 (Feb 1996), 7A1388

Stability analysis of operator splitting for large-scale ocean modeling, J Comput Phys **123**(2) 311-329 (Feb 1996), 7A1389

Cloud perturbations of temperature and humidity: A LES study, Boundary-Layer Meteorol **76**(4) 377-386 (Dec 1995), 8A1361

Orthogonal expansion functions for meridional profiles, Tellus **48A**(1) 41-56 (Jan 1996), 8T1367

Stability problem of the non-hydrostatic 2D model of air flow in the lower troposphere: Orographic effects and the telescopic method, J Tech Phys **36**(4) 445-475 (1995), 9A1404

Symbolic dynamics of the Lorenz equations, Chaos Solitons Fractals **7**(2) 217-246 (Feb 1996), 9A1405

Vertical discretization in tidal flow simulations, Int J Numer Methods Fluids **22**(9) 815-834 (May 1996), 10A1444

Traps and snares in eigenvalue calculations with application to pseudospectral computations of ocean tides in a basin bounded by meridians, J Comput Phys **126**(1) 11-20 (Jun 1996), 11T1417

Advection-diffusion processes and residence times in semienclosed marine basins, Int J Numer Methods Fluids **22**(12) 1207-1229 (Jun 1996), 12A1410

Method to solve the advection - Dispersion equation with a kinetic adsorption isotherm, Adv Water Resources **19**(4) 193-206 (1996), 12A1424

Experimental micrometeorology in an era of turbulence simulation, Boundary-Layer Meteorol **78**(1-2) 71-86 (Feb 1996), 12A1425

458Z. Experimental techniques in meteorology

Four-dimensional data assimilation with a wide range of scales, Tellus **47A**(5:2) 974-997 (Oct 1995), 4T1345

Application of Kalman smoother theory to the estimation of 4DVAR error statistics, Tellus **48A**(2) 221-237 (Mar 1996), 8T1368

High-flow turbulent cloud chamber, Aerosol Sci Tech **24**(2) 59-68 (Feb 1996), 8A1369

One-dimensional checkerboards and blending heights, Boundary-Layer Meteorol **77**(2) 135-151 (Jan 1996), 11T1418

Experimental micrometeorology in an era of turbulence simulation, Boundary-Layer Meteorol **78**(1-2) 71-86 (Feb 1996), 12A1425

Humidity fluctuations in the marine boundary layer measured at a coastal site with an infrared humidity sensor, Boundary-Layer Meteorol **77**(3-4) 331-352 (Feb 1996), 12T1426

Kite based atmospheric sounding system, Boundary-Layer Meteorol **77**(3-4) 395-399 (Feb 1996), 12T1427

VIII. ENERGY & ENVIRONMENT

500. FOSSIL FUEL SYSTEMS

500B. Geophysical aspects

Source parameters of mining-induced seismic events: An evaluation of homogeneous and inhomogeneous faulting models for assessing damage potential, Pure Appl Geophys **145**(1) 3-27 (Oct 1995), 3A1350

500C. Mining mechanics

Introduction to Mining Seismology - International Geophysics Series, Vol 55 (Academic, San Diego, CA, 1994) 1N38

3nidimensional model of spontaneous fire in goaf or coal fissures (Polish), Arch Gornictwa **40**(1) 39-51 (1995), 3A1351

Changes of methane mean concentration in preparatory works excavated in roadheaders (Polish), Arch Gornictwa **40**(1) 3-24 (1995), 3A1352

Contribution to the relationship between the methane sorption capacity of the coal and gas pressure, Arch Gornictwa **40**(2) 212-219 (1995), 3A1353

Film flotation method applied to determine surface energy of coal wetted with flotation agents, Arch Gornictwa **40**(1) 111-120 (1995), 3A1354

Nature and meaning of forces occurring in the problems of gravitational enrichment, Arch Gornictwa **40**(2) 237-265 (1995), 3A1355

Optimal choice of mine hoisting process parameters (Polish), Arch Gornictwa **40**(1) 133-144 (1995), 3A1356

Select problems reliability of the exploitation processing system of continuous operations, Arch Gornictwa **40**(1) 121-131 (1995), 3A1357

Progress toward a mining strategy based on mineral leaching with secondary recovery, Appl Math Model **20**(1) 16-25 (Jan 1996), 5A1342

Experiments in thermal spallation of various rocks, J Energy Resources Tech **118**(1) 2-8 (Mar 1996), 8A1370

Nonlinear fault behavior near underground excavations: A BE approach, Int J Numer Anal Methods Geomech **20**(3) 173-190 (Mar 1996), 8A1371

Effects of water and methanol sorption on surfaces of hard coals of different carbonization, Arch Gornictwa **40**(3) 317-327 (1995), 9A689

Porosity of the Polish hard coals, Arch Gornictwa **40**(3) 303-315 (1995), 9A690

Changes of the methane concentration in dog headings (Polish), Arch Gornictwa **40**(3) 269-276 (1995), 9T1406

Influence of rock bolts on the rock mass parameters, Arch Gornictwa **40**(4) 489-501 (1995), 9A1407

Numerical prediction of temperature and moisture of air in longwalls (Polish), Arch Gornictwa **40**(4) 475-488 (1995), 9A1408

Study of moist air flows with mass, momentum and energy exchange in the ventilation network area of underground mines (Polish), Arch Gornictwa **40**(4) 381-474 (1995), 9A1409

Transport delay in mathematical models of batch coal flotation kinetics, Arch Gornictwa **40**(3) 339-349 (1995), 9A1410

Verification of mathematical models of kinetics of batch flotation, Arch Gornictwa **40**(3) 351-362 (1995), 9A1411

500D. Oil and gas drilling mechanics

Factorial design approach to investigate the effect of geometry in drill string screw connectors, J Energy Resources Tech **117**(2) 101-107 (Jun 1995), 1A947

Analysis of drill strings in vertical and deviated holes using the Galerkin technique, Eng Struct **17**(6) 437-442 (Jul 1995), 2A98

Formation Invasion - With applications to measurement-while-drilling, time lapse analysis, and formation damage (Gulf Publ, Houston, 1995) 3R47

Buckling and lockup of tubulars in inclined wellbores, J Energy Resources Tech **117**(3) 208-213 (Sep 1995), 5A1343

Effect of wellbore curvature on tubular buckling and lockup, J Energy Resources Tech **117**(3) 214-218 (Sep 1995), 5A1344

Leak detection: Transient flow simulation approaches, J Energy Resources Tech **117**(3) 243-248 (Sep 1995), 5A1345

Modeling of roller cone bit lift-off dynamics in rotary drilling, J Energy Resources Tech **117**(3) 197-207 (Sep 1995), 5A1346

Hydraulic Fracture Mechanics (Wiley, UK, 1995) 7R29

Optimal drilling strategies for oil exploration with a generalized action space, Arab J Sci Eng **20**(4A) 609-621 (Oct 1995), 7A1390

500E. Oil and gas reservoir engineering

Improved method for gas lift allocation optimization, J Energy Resources Tech **117**(2) 87-92 (Jun 1995), 1A1409

Convergence of a numerical method in mathematical spontaneous potential well-logging, European J Appl Math **7**(1) 31-41 (Feb 1996), 8A1321

Adsorption of propane, propylene, and propadiene on activated carbon, Appl Thermal Eng **16**(5) 383-387 (May 1996), 8A1372

Comparison of some estationary methods with the GMRES in the petroleum reservoir simulation using non-structured Voronoi grids (Spanish), J Brazilian Soc Mech Sci **17**(4) 360-372 (1995), 8A1373

Prediction of the minimum miscibility pressure of nitrogen-oil and lean gas-oil miscibility, Arch Gornictwa **40**(4) 503-515 (1995), 9A1412

500F. Solid fuel comminution

Nonstationary states in gravitational separators: Fokker-Planck equation, Arch Gornictwa **40**(3) 363-378 (1995), 9A1413

500G. Solid fuel conversion to liquid or gas fuel

Solid-based processes for the direct reduction of iron, Int J Energy Res **20**(3) 255-278 (Mar 1996), 8A1374

Modeling of energy transforming and energy recycling systems, J Syst Eng **6**(2) 79-88 (1996), 10A1446

500H. Heat transfer and combustion problems

Part-load operation of combined cycle plants with and without supplementary firing, J Eng Gas Turbines Power **117**(3) 475-483 (Jul 1995), 5A1038

Behavior and performance of adsorptive natural gas storage cylinders during discharge, Appl Thermal Eng **16**(5) 359-374 (May 1996), 8A1375

Energy and Environment - Proc of Int Conf on Energy and the Environment, 1995 (Begell House, New York, 1995) 9N30

Heat and Mass Transfer in Energy Systems and Environment Effects - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey (Begell House, New York, 1995) 9N31

Thermal Engineering for Global Environmental Protection (Begell House, New York, 1996) 10N42

502. NUCLEAR SYSTEMS

502C. Structural mechanics aspects

Use of failure assessment diagrams for the prediction of cleavage fracture in structural applications from the behavior of sub-sized specimens, Int J Pressure Vessels Piping **64**(3) 199-211 (1995), 1T775

Ductile-to-brittle transition of ferritic steel components: Some recent developments in relation to nuclear reactor pressure vessel integrity, Int J Pressure Vessels Piping **64**(3) 191-197 (1995), 1T1410

French industry experience on constraint and size effects in the upper transition region, Int J Pressure Vessels Piping **64**(3) 235-246 (1995), 1T1411

In-service aging of heavy PWR components, Theor Appl Fracture Mech **23**(2) 139-144 (Aug 1995), 1A1412

Leak-before-break behavior of nuclear piping systems, Theor Appl Fracture Mech **23**(2) 145-149 (Aug 1995), 1A1413

Supercomputer application to structural dynamic analysis of PWR piping system, Adv Eng Software **22**(2) 87-93 (1995), 1A1414

Probabilistic evaluation of concrete containment capacity for beyond design basis internal pressures, Nucl Eng Des **157**(3) 455-467 (Aug 1995), 2A1269

Three-dimensional thermoelastic analysis of the straight section of a PWR hot leg containing a hot spot using BEM, Nucl Eng Des **158**(1) 47-60 (Sep 1995), 2A1270

Pump and valve fastener serviceability in PWR nuclear facilities, J Pressure Vessel Tech **118**(1) 38-41 (Feb 1996), 7A1391

Extended and updated selected papers from ENS TOPNUX '93, Hague, Netherlands, April 25-28, 1993, Nucl Eng Des **160**(1-2) 1-268 (Feb 1996), 8T1376

Simple method of evaluating the failure probability of a structure considering the skewness of distribution, Nucl Eng Des **160**(3) 307-319 (Feb 1996), 9A899

Normalized failure cost as a measure of a structure importance, Nucl Eng Des **160**(3) 299-305 (Feb 1996), 9A904

Seismic probabilistic safety analysis of unit 1 of the Loviisa nuclear power plant, Nucl Eng Des **160**(3) 411-426 (Feb 1996), 9A1387

Seismic reliability of VVER-1000 NPP prestressed containment building, Nucl Eng Des **160**(3) 387-398 (Feb 1996), 9A1389

Fragility estimation for seismically isolated nuclear structures by high confidence low probability of failure values and bi-linear regression, Nucl Eng Des **160**(3) 287-297 (Feb 1996), 9A1414

Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, Nucl Eng Des **160**(3) 321-332 (Feb 1996), 9A1415

Empirical investigation on buckling and post-buckling behavior of cell liners, Nucl Eng Des **162**(1) 117-124 (Mar 1996), 11A538

502D. Fracture mechanics aspects

How to obtain a complete dependence curve of impact toughness or fracture toughness vs temperature on nuclear pressure vessel steels by using only one Charpy-size specimen, Int J Pressure Vessels Piping **65**(2) 187-192 (1996), 1A840

Assessment by comparison and experimental verification of VVER reactor pressure vessel integrity, Theor Appl Fracture Mech **23**(2) 109-116 (Aug 1995), 1A1415

Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, Fatigue Fracture Eng Mat Struct **18**(7-8) 789-800 (Aug 1995), 1A1416

Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, Fatigue Fracture Eng Mat Struct **18**(6) 731-746 (Jun 1995), 1A1417

Operation of a reactor pressure vessel in a regime where cleavage might occur: The effect of a locally embrittled zone, Int J Pressure Vessels Piping **64**(3) 247-254 (1995), 1T1418

Thermal mechanical, materials, and structural aspects of nuclear fission energy, Nucl Eng Des **158**(2-3) 167-435 (Sep 1995), 2A1271

Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, Nucl Eng Des **159**(1) 63-68 (Oct 1995), 3A1358

Determination of limits for smallest detectable and largest subcritical leakage cracks in piping systems, Nucl Eng Des **159**(1) 29-42 (Oct 1995), 3A1359

LBB project for the new generation of WWER plants and lessons learned from the WWER 440 model 230 LBB project, Nucl Eng Des **159**(1) 55-62 (Oct 1995), 3A1360

Fracture in austenitic components, Int J Pressure Vessels Piping **65**(3) 193-378 (1996), 4A1350

Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, NDT&E Int **29**(1) 37-49 (Feb 1996), 8A701

Random thermal fatigue in fast breeder reactor: A narrow-band spectrum, Nucl Eng Des **160**(3) 333-345 (Feb 1996), 9A1279

Deaerator feedwater storage vessel weldment cracking: Some fractographic and crack extension details, Int J Pressure Vessels Piping **68**(1) 81-97 (1996), 10A1447

Relationship between the normal operation temperature for a nuclear reactor steel pressure vessel and the onset of upper shelf temperature, Int J Pressure Vessels Piping **68**(1) 45-52 (1996), 10A1448

Threshold stress criterion for delayed hydride crack initiation at a blunt notch in zirconium alloys, Int J Pressure Vessels Piping **68**(1) 53-61 (1996), 10A1449

Constraint effects on fracture toughness of impact-loaded, precracked Charpy specimens, Nucl Eng Des **162**(2-3) 145-158 (Apr 1996), 11A1419

Studies of IGA intergranular attack-stress corrosion cracking related parameters and remedies, Nucl Eng Des **162**(2-3) 167-174 (Apr 1996), 11A1420

Prediction of fracture resistance curves from tensile data for carbon steel piping materials, Int J Pressure Vessels Piping **68**(2) 209-217 (1996), 12A747

502E. Fluid mechanics aspects

Flow instability in plane-parallel particle beds with constant volumetric heating, J Propulsion Power 11(5) 1028-1035 (Oct 1995), 2A1272
Hydrodynamic instabilities in flat-plate-type fuel assemblies, Nucl Eng Des 158(1) 1-17 (Sep 1995), 2A1273
Comparison of edge plasma parameters between limiter and divertor configuration in Tokamak-reactor, J Tech Phys 36(3) 279-298 (1995), 6T1296
Chaotic oscillations in a low pressure two-phase natural circulation loop under low power and high inlet subcooling conditions, Nucl Eng Des 162(2-3) 223-232 (Apr 1996), 11A1421
Periodic flow excursion in an open two-phase natural circulation loop, Nucl Eng Des 162(2-3) 233-244 (Apr 1996), 11A1422
Prediction of the single-phase turbulent mixing rate between two parallel subchannels using a subchannel geometry factor, Nucl Eng Des 162(2-3) 245-256 (Apr 1996), 11A1423
Two-phase level tracking method, Nucl Eng Des 162(2-3) 271-280 (Apr 1996), 11A1424
Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, Fusion Eng Des 31(2) 109-115 (Jun 1996), 12A1333

502F. Fluid structure interactions

Constraint effects on behavior of surface cracks in cladded reactor pressure vessels subjected to PTS transients, Int J Pressure Vessels Piping 67(2) 185-197 (Jul 1996), 9A1275

502G. Transient behavior (loss of coolant accidents, etc)

Transient thermal performance of axially and radially diluted nuclear fuel cells, Numer Heat Transfer A 28(2) 231-252 (Aug 1995), 1A1419
Scram reliability under seismic conditions at the Experimental Breeder Reactor II, Nucl Eng Des 160(3) 399-410 (Feb 1996), 9A1416
Analytical study on excitation of nuclear-coupled thermal hydraulic instability due to seismically induced resonance in BWR, Nucl Eng Des 162(2-3) 307-315 (Apr 1996), 11A1425

502H. Radiation interaction on materials

Descriptive characteristics of different types of test for irradiation embrittlement, Nucl Eng Des 159(1) 69-80 (Oct 1995), 3A1361
Irradiation devices and irradiation programs at the high flux reactor Petten for the investigation of the irradiation behavior of stainless steels, Nucl Eng Des 159(1) 81-89 (Oct 1995), 3A1362
Influence of the depth position on the neutron embrittlement of the VVER reactor pressure vessel steel 15Cr2Mo V(A) consequences for the assessment of reactor safety, Nucl Eng Des 159(2-3) 131-141 (Nov 1995), 4A1351
Potential for gas-cooled reactor development, Int J Energy Res 19(9) 761-789 (Dec 1995), 4A1352
Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, Acta Phys Polonica B B27(1-2) 547-553 (Feb 1996), 10T1450
The ΔT_{41} criterion for irradiation shift, Int J Pressure Vessels Piping 67(3) 299-306 (1996), 10A1451

506. SOLAR AND OTHER ENERGY SYSTEMS

Power from the Waves (Oxford UP, New York, 1995) 10N41
Computational method for the methyl amine-H_2 gas mixture concentrations in methyl amine-H_2O-H_2 absorption refrigeration units, Appl Thermal Eng 16(8-9) 707-718 (Sep 1996), 12A1428

506B. Solar collector mechanics

Thermal and optical consequences of the introduction of baffles into compound parabolic concentrating solar energy collector cavities, Solar Energy 55(2) 139-150 (Aug 1995), 1A1420
"Convective" flat plate collectors and their applications, Solar Energy 55(3) 195-207 (Sep 1995), 3A1363
Economic performance of the SCE Stirling dish, J Solar Energy Eng 117(3) 210-214 (Aug 1995), 3A1364
Strong, low-cost mount for parabolic dish solar collectors, J Solar Energy Eng 117(3) 205-209 (Aug 1995), 3A1365
Estimation of collector performance parameters from daily system tests, J Solar Energy Eng 118(1) 30-36 (Feb 1996), 7A1392
Optics of a two-trough solar concentrator, Solar Energy 56(2) 191-198 (Feb 1996), 8A1377
Study of brine driven absorbing evaporation system (Chinese), J Dalian Univ Tech 35(1) 51-54 (Feb 1995), 8A1378
Simple string construction method for tailored edge-ray concentrators in maximum-flux solar energy collectors, Solar Energy 56(3) 279-284 (Mar 1996), 9A1417
Two-stage concentrator permitting concentration factors up to 300X with one-axis tracking, Solar Energy 56(3) 285-300 (Mar 1996), 9A1418

506D. Solar heat transfer

Empirical model for natural convection heat exchangers in SDHW systems, Solar Energy 55(2) 75-84 (Aug 1995), 1A1421
Thermal performance of solar air heaters: Mathematical model and solution procedure, Solar Energy 55(2) 93-109 (Aug 1995), 1A1422
Use of buried pipes for energy conservation in cooling of agricultural greenhouses, Solar Energy 55(2) 111-124 (Aug 1995), 1A1423
Performance and cost analysis of two-pass solar air heaters, Heat Recovery Syst CHP 15(8) 755-773 (Nov 1995), 2A1274
Thermal performance enhancement of solar air heaters, by a fan-blown absorber plate with rectangular fins, Int J Energy Res 19(7) 567-578 (Sep 1995), 2A1275
Distillation of ethanol in a solar still: Studies on heat and mass transfer, J Solar Energy Eng 117(3) 236-241 (Aug 1995), 3A1366
Effect of bottom reflectivity on ground heat losses for solar ponds, Solar Energy 55(4) 311-319 (Oct 1995), 3A1367
Effect of variation of angle of inclination on the performance of low-concentration-ratio compound parabolic concentrating solar collectors, Solar Energy 55(4) 301-309 (Oct 1995), 3A1368
Gas heat conduction in evacuated flat-plate solar collectors: Analysis and reduction, J Solar Energy Eng 117(3) 229-235 (Aug 1995), 3A1369
Natural convection and conduction in massive wall solar collectors with honeycomb and without vents, J Solar Energy Eng 117(3) 173-180 (Aug 1995), 3A1370
Nonisothermal receivers, J Solar Energy Eng 117(3) 259-261 (Aug 1995), 3A1371
Temperature control of a distributed collector field, Solar Energy 55(4) 321-325 (Oct 1995), 3A1372
Thermal performance of solar air heaters: Experimental correlation, Solar Energy 55(3) 209-220 (Sep 1995), 3A1373
Mathematical modeling of solar stills in Iran, Solar Energy 55(5) 389-393 (Nov 1995), 4A1353
Modeling the solar irradiation on flat plate collectors augmented with planar reflectors, Solar Energy 55(5) 343-354 (Nov 1995), 4A1354
Time-series analysis of climatic variables, Solar Energy 55(5) 377-388 (Nov 1995), 4A1355
Computational model for analysis of dynamic thermal performance of a hybrid slab-collector system with passive discharge, Solar Energy 55(6) 419-433 (Dec 1995), 5A1347
Instantaneous thermal efficiency of an active solar still, Appl Thermal Eng 16(2) 189-192 (Feb 1996), 5A1348
Model calculations on a flat-plate solar heat collector with integrated solar cells, Solar Energy 55(6) 453-462 (Dec 1995), 5A1349
Thermal performance of a parabolic trough collector with a longitudinal externally finned absorber, Heat and Mass Transfer Warme 31(1-2) 95-103 (Dec 1995), 6A1297
Effect of occupancy patterns on the long-term performance of roof-space solar-energy collectors on domestic dwellings in a Northern European climate, Solar Energy 56(2) 143-150 (Feb 1996), 8A1379
Performance of a solar still: Predicted effect of enhanced evaporation area on yield and evaporation temperature, Solar Energy 56(3) 261-266 (Mar 1996), 9A1419
Effect of glass cover inclination and parametric studies of concentrator-assisted solar distillation system, Int J Energy Res 20(6) 495-505 (Jun 1996), 12A1429

506F. Other solar aspects

Collector hardware simulator: Theoretical analysis and experimental results, Solar Energy 55(1) 39-48 (Jul 1995), 1A1424
Direct luminous efficacy and atmospheric turbidity: Improving model performance, Solar Energy 55(2) 125-137 (Aug 1995), 1A1425
Directional response error in integrating-sphere transmittance measurements at solar wavelengths, Solar Energy 55(2) 85-91 (Aug 1995), 1A1426
Economic design of a rock bed storage device for storing solar thermal energy, Solar Energy 55(1) 29-37 (Jul 1995), 1A1427
Investigation of minute solar radiation data, Solar Energy 55(1) 21-27 (Jul 1995), 1A1428
Multiresolution analysis of satellite-derived irradiance maps: An evaluation of a new tool for the spatial characterization of hourly irradiance fields, Solar Energy 55(1) 9-20 (Jul 1995), 1A1429
Optimizing the panel area of a photovoltaic system in relation to the static inverter: Practical results, Solar Energy 55(1) 1-7 (Jul 1995), 1A1430
Heat pipe-based cooling systems for photovoltaic cells under concentrated solar radiation, Appl Thermal Eng 16(1) 81-87 (Jan 1996), 3A1153
Comparison of daily solar radiation estimates for the NE US using the NE regional climate center and national renewable energy laboratory models, Solar Energy 55(3) 185-194 (Sep 1995), 3A1374
Exergy analysis of a solar heating system, J Solar Energy Eng 117(3) 249-251 (Aug 1995), 3A1375
Large DHW solar systems with distributed storage tanks, Solar Energy 55(3) 175-184 (Sep 1995), 3A1376
Solar-electric Vehicle Simulation code, Solar Energy 55(3) 221-234 (Sep 1995), 3A1377
Yearly simulation of a solar-aided R22-DEGDME absorption heat pump system, Solar Energy 55(4) 255-265 (Oct 1995), 3A1378
Design of control circuit of solar photovoltaic powered regulated cathodic protection system, Solar Energy 55(5) 363-366 (Nov 1995), 4A1356
Modeling and simulation of PV-powered intermittent load systems by bond graph technique, Solar Energy 55(5) 367-375 (Nov 1995), 4A1357
Comparison of irradiance measurements made with the multi-filter rotating shadowband radiometer and first-class thermopile radiometers, Solar Energy 55(6) 487-491 (Dec 1995), 5A1350
Experiments on a new small-scale solar dryer, Appl Thermal Eng 16(2) 183-187 (Feb 1996), 5A1351
Fertilizer solar ponds as a clean source of energy: Some observations from small scale experiments, Solar Energy 55(6) 537-542 (Dec 1995), 5A1352
Myths in passive solar design, Solar Energy 55(6) 445-451 (Dec 1995), 5A1353
New development in the theory of heat and mass transfer in solar stills, Solar Energy 55(6) 527-535 (Dec 1995), 5A1354
Output variation of photovoltaic modules with environmental factors - I: The effect of spectral solar radiation on photovoltaic module output, Solar Energy 55(6) 463-468 (Dec 1995), 5A1355
Performance of solar-driven ammonia-lithium nitrate and ammonia-sodium thiocyanate absorption systems operating as coolers or heat pumps in Athens, Appl Thermal Eng 16(2) 127-147 (Feb 1996), 5A1356
Spatially continuous mapping of solar resources in a complex high latitude topography, Solar Energy 55(6) 475-485 (Dec 1995), 5A1357
Statistical distribution of the clearness index with radiation data integrated over five minute intervals, Solar Energy 55(6) 469-473 (Dec 1995), 5A1358
Terrestrial solar-pumped iodine gas laser with minimum threshold concentration requirements, J Thermophys Heat Transfer 10(1) 54-59 (Mar 1996), 6A1298
Performance of a thermodynamic water pump, Appl Thermal Eng 16(4) 321-334 (Apr 1996), 7A1203
FT-IR measurements of emissivity and temperature during high flux solar processing, J Solar Energy Eng 118(1) 20-29 (Feb 1996), 7A1260
Solar and gas-driven absorption heat-pump systems, Appl Thermal Eng 16(4) 347-356 (Apr 1996), 7A1275
Design and measured performance of a solar chimney for natural circulation solar energy dryers, J Solar Energy Eng 118(1) 69-71 (Feb 1996), 7A1393
Direct steam generation in parabolic trough solar power plants: Numerical investigation of the transients and the control of a once-through system, J Solar Energy Eng 118(1) 9-14 (Feb 1996), 7A1394
Effects of a nonabsorbable gas on interfacial heat and mass transfer for the entrance region of a falling film absorber, J Solar Energy Eng 118(1) 45-49 (Feb 1996), 7A1395
Photocatalytic treatment of wastewater from 5-fluorouracil manufacturing, J Solar Energy Eng 118(1) 2-8 (Feb 1996), 7A1396
Simulation of solar radiation heat flux data for energy calculation, J Solar Energy Eng 118(1) 58-63 (Feb 1996), 7A1397
Solar-powered Rankine system for domestic applications, Appl Thermal Eng 16(4) 281-289 (Apr 1996), 7A1398
Two-region model for gradient modification of salt-gradient solar ponds by radial injection, J Solar Energy Eng 118(1) 37-44 (Feb 1996), 7A1399
Advantages of solar power satellites for base load electrical supply compared to ground solar power, Solar Energy 56(1) 23-40 (Jan 1996), 8A1380
Approach to develop space solar power as a new energy system for developing countries, Solar Energy 56(1) 111-118 (Jan 1996), 8A1381
Data envelopment analysis of space and terrestrially-based large scale commercial power systems for Earth: A prototype analysis of their relative economic advantages, Solar Energy 56(1) 119-131 (Jan 1996), 8A1382
Design performance and economics of a low-cost solar wax melter for the candle industry, Int J Energy Res 20(3) 197-202 (Mar 1996), 8A1383
Development of a photo-voltaic pumping system using a brushless DC motor and helical rotor pump, Solar Energy 56(2) 151-160 (Feb 1996), 8A1384
History of wireless power transmission, Solar Energy 56(1) 3-21 (Jan 1996), 8A1385
Investigation of control and simulation of solar process heat plants using a flexible test facility, Solar Energy 56(2) 169-182 (Feb 1996), 8A1386
Performance analysis of PV pumping systems using switched-reluctance motor drives, Solar Energy 56(2) 161-168 (Feb 1996), 8A1387
Role of pilot projects and public acceptance in developing wireless power transmission as an enabling technology for space solar power systems, Solar Energy 56(1) 41-51 (Jan 1996), 8A1388
Simulated results of a non-valve, daily-cycled, solar-powered carbon-methanol refrigerator with a tubular solar collector, Appl Thermal Eng 16(5) 439-445 (May 1996), 8A1389
Solar still versus solar evaporator: A comparative study between their thermal behaviors, Solar Energy 56(2) 199-206 (Feb 1996), 8A1390
Status of international experimentation in wireless power transmission, Solar Energy 56(1) 87-91 (Jan 1996), 8A1391
Synthetic fuels, and a sustainable set of civilizations, Solar Energy 56(1) 61-77 (Jan 1996), 8A1392
Way to creating a system of distant power supply for space vehicles, Solar Energy 56(1) 97-109 (Jan 1996), 8A1393
Field testing on nonsalt solar ponds, Solar Energy 56(3) 267-277 (Mar 1996), 9A1420
Linke turbidity factor based on improved values of the integral Rayleigh optical thickness, Solar Energy 56(3) 239-244 (Mar 1996), 9A1421
Modifications of the Heliosat procedure for irradiance estimates from satellite images, Solar Energy 56(3) 207-212 (Mar 1996), 9A1422
Simulation of the transient behavior of a closed-cycle salt-gradient solar pond, Solar Energy 56(3) 245-260 (Mar 1996), 9A1423
Solar radiation mapping from satellite image using a low-cost system, Solar Energy 56(3) 225-237 (Mar 1996), 9A1424
Vector model of solar radiation density incident on tilted surfaces: Identification for the area of Warsaw, Arch Civil Eng 41(4) 567-599 (1995), 9T1425
Comparative performance of coriander dryer coupled to solar air heater and solar air-heater-cum-rockbed storage, Appl Thermal Eng 16(6) 475-486 (Jun 1996), 10A1323
Estimation of atmospheric radiation from surface meteorological data, Solar Energy 56(4) 349-359 (Apr 1996), 11A1426
Feasibility of an iodine gas laser pumped by concentrated terrestrial solar radiation, J Solar Energy Eng 118(2) 136-139 (May 1996), 11T1427
Power output of Al/SnO_2/n-Si solar cell, Solar Energy 56(4) 343-348 (Apr 1996), 11A1428
Theoretical performance of a solar pond with enhanced ground energy storage, J Solar Energy Eng 118(2) 101-107 (May 1996), 11A1429
Thermodynamic optimization of solar-driven refrigerators, J Solar Energy Eng 118(2) 130-135 (May 1996), 11A1430
Hybrid high efficiency single-basin solar still, Int J Energy Res 20(6) 541-546 (Jun 1996), 12A1430
Mathematical simulation of a solar ejector-compression refrigeration system, Appl Thermal Eng 16(8-9) 669-675 (Sep 1996), 12A1431

506H. Geothermal energy

Crack propagation models for rock fracture in a geothermal energy reservoir, SIAM J Appl Math 55(6) 1592-1608 (Dec 1995), 4A625

506J. Wind, ocean, and hydro energy

Evaluation of wind-generator potentiality, Solar Energy 55(1) 49-59 (Jul 1995), 1A1431
Methodology for Wells turbine design for wave energy conversion, Proc Inst Mech Eng A 209(A3) 221-232 (1995), 1A1432
Optimal sequencing site of hydro-power stations, J Energy Resources Tech 117(2) 125-132 (Jun 1995), 1A1433

Study of the turbulent characteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, Solar Energy 55(1) 61-72 (Jul 1995), 1A1434
Wells air turbine for wave energy conversion, Prog Aerospace Sci 31(4) 335-386 (1995), 2A1042
Proceedings of the First IAWE European and African Regional Conference, September 20-24, 1993, Guernsey, UK, J Wind Eng Indust Aerodyn 57(2-3) 113-453 (Jul 1995), 2A1276
Prediction of wind turbine rotor loads using the Beddoes-Leishman model for dynamic stall, J Solar Energy Eng 117(3) 200-204 (Aug 1995), 3A999
Dynamics and control of isolated wind-diesel power systems, Int J Energy Res 19(8) 729-740 (Nov 1995), 3A1379
Prediction of hurricane wind speeds in the US, J Struct Eng 121(11) 1691-1699 (Nov 1995), 3A1380
Two-dimensional methodology to predict vertical axis wind turbine performance, J Solar Energy Eng 117(3) 187-193 (Aug 1995), 3A1381
Wind-field and filling models for hurricane wind-speed predictions, J Struct Eng 121(11) 1700-1709 (Nov 1995), 3A1382
Wind and solar generating units: Potential candidates for a generation mix of an isolated area, Solar Energy 55(5) 395-404 (Nov 1995), 4A1358
Hydrodynamic parameters for a two-body axisymmetric system, Appl Ocean Res 17(2) 103-115 (1995), 5A220
Wave-power absorption by a line of submerged horizontal cylinders, Appl Ocean Res 17(2) 117-126 (1995), 5A224
Reformulation of the momentum theory applied to wind turbines, J Wind Eng Indust Aerodyn 58(3) 277-292 (Dec 1995), 5T1024
Power-dynamic analysis of a windwheel unit with a variable inertia flywheel, J Machinery Manuf Reliab 3 109-111 (1995), 6A1299
Hydrodynamic characteristics of an oscillating water column device, Appl Ocean Res 17(3) 155-164 (1995), 7A1400
Load models for fatigue reliability from limited data, J Solar Energy Eng 118(1) 64-68 (Feb 1996), 7A1401
Application of a genetic algorithm to wind turbine design, J Energy Resources Tech 118(1) 22-28 (Mar 1996), 8A1394
Horizontal axis wind turbine control: Comparison of classical, LQG and H∞ designs, Dyn Control 6(2) 143-161 (Apr 1996), 9A435
Optimum control of a floating wave-energy converter with restricted amplitude, J Offshore Mech Arctic Eng 118(2) 96-102 (May 1996), 11A346
Performance analysis of an OTEC plant and a desalination plant using an integrated hybrid cycle, J Solar Energy Eng 118(2) 115-122 (May 1996), 11A1431
Sizing of a stand-alone hybrid wind-photovoltaic system using a three-event probability density approximation, Solar Energy 56(4) 323-335 (Apr 1996), 11A1432
Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, Wind Eng 19(6) 363-370 (1995), 12T1182
Performance tests of a Benesh wind turbine rotor and a Savonius rotor, Wind Eng 19(6) 349-362 (1995), 12T1432
Unsteady aerodynamics associated with a horizontal-axis wind turbine, AIAA J 34(7) 1410-1419 (Jul 1996), 12A1433

506L. Other enerrgy systems

Modeling the energetic and exergetic self-sustainability of societies with different structures, J Energy Resources Tech 117(2) 75-86 (Jun 1995), 1A1435
Analysis of the power cycle utilizing the cold energy of LNG, Int J Energy Res 19(9) 741-749 (Dec 1995), 4A1359
Turbulent magnetohydrodynamic dynamo: Modeling of the turbulent residual-helicity equation, J Phys Soc Japan 65(1) 124-132 (Jan 1996), 7A1138
Analytical comparison of adsorption and vapor compression air conditioners for electric vehicle applications, J Energy Resources Tech 118(1) 16-21 (Mar 1996), 8A1395
Techno-economic analysis of fuel conversion and power generation systems: The development of a portable chemical process simulator with capital cost and economic performance analysis capabilities, Int J Energy Res 20(2) 125-142 (Feb 1996), 8A1396
Comparison of results of estimation of thermal energy consumption carried out by simulation method and balance sheet method (Polish), Inzynieria Budownictwo 53(4) 247-250 (1996), 10A1452
Performance analysis of a metal-hydride heat transformer for waste heat recovery, Appl Thermal Eng 16(8-9) 677-690 (Sep 1996), 12A1434

506N. Energy storage

Waste-heat recovery in batch processes using heat storage, J Energy Resources Tech 117(2) 142-149 (Jun 1995), 1A1436
New solar receiver thermal store for space-based activities using multiple composite phase-change materials, J Solar Energy Eng 117(3) 215-220 (Aug 1995), 3A1163
Thermoeconomics of a sensible heat, thermal energy storage system, J Solar Energy Eng 117(3) 255-259 (Aug 1995), 3A1165
Field performance of lead-acid batteries in photovoltaic rural electrification kits, Solar Energy 55(4) 287-299 (Oct 1995), 3A1383
Measured performance and modeling of an evacuated-tube, integral-collector-storage solar water heater, J Solar Energy Eng 117(3) 221-228 (Aug 1995), 3A1384
Unified approach to modeling photovoltaic powered systems, Solar Energy 55(4) 267-285 (Oct 1995), 3A1385
Integrated solar collector storage system based on a salt-hydrate phase-change material, Solar Energy 55(6) 435-444 (Dec 1995), 5A1359
Direct-heating energy-storage receiver for Dish-Stirling solar energy systems, J Solar Energy Eng 118(1) 15-19 (Feb 1996), 7A1402
Thermal energy storage using a phase-change material, Solar Energy 56(2) 183-189 (Feb 1996), 8A1217
Behavior and performance of adsorptive natural gas storage cylinders during discharge, Appl Thermal Eng 16(5) 359-374 (May 1996), 8A1375
Storage of gases at room temperature by adsorption at high pressure, Appl Thermal Eng 16(5) 375-382 (May 1996), 8A1397
Endothermic reactors for an ammonia based thermochemical solar energy storage and transport system, Solar Energy 56(4) 361-371 (Apr 1996), 11A1433
Perspective on thermal energy storage systems for solar energy applications, Int J Energy Res 20(6) 547-557 (Jun 1996), 12A1435

506Q. Energy distribution (incl pipelines, transmission lines, etc)

Tension of conductor under concentrated loads, J Appl Mech 62(3) 802-809 (Sep 1995), 5A131
Environmental hazards due to rupture of a liquefied propane pipeline, J Energy Resources Tech 118(1) 9-15 (Mar 1996), 8A1398
Analysis of water distribution systems using a perturbation method, Appl Math Model 20(4) 290-297 (Apr 1996), 9A1426
Probabilistic approach to the lengths of free pipeline spans, Appl Ocean Res 17(4) 225-232 (1995), 9A1427
Subsystem approach for acoustic analysis of mufflers having identical perforated pipes, J Sound Vib 193(5) 985-1001 (Jun 1996), 12A290
Buckle arrestors for deepwater pipelines, Marine Struct 9(9) 873-883 (1996), 12A1436
Case study in the cross-section analysis of flexible risers, Marine Struct 9(9) 885-904 (1996), 12A1437

514. ENVIRONMENTAL MECHANICS

514B. Dispersion by air and water

Implementation and performance of the time integration of a 3D numerical transport model, Int J Numer Methods Fluids 21(4) 349-367 (Aug 1995), 1A1437
Explicit mathematical models of distribution storage water quality, J Hydraul Eng 121(10) 699-709 (Oct 1995), 2A1277
Numerical study of dispersion of passive scalars in city canyons, Boundary-Layer Meteorol 75(3) 235-262 (Aug 1995), 3T1386
Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), Proc JSCE 521(II-32) 181-191 (Aug 1995), 3A1387
Finite element method: Is weighted volume integration essential?, Adv Water Resources 18(6) 345-352 (1995), 4T19
Diffusion properties of oiled wastewater in open channel, J Hydrodyn 7(3) 32-38 (1995), 4A917
Fluctuations in dense gas concentrations measured in a wind-tunnel, Boundary-Layer Meteorol 75(4) 321-352 (Sep 1995), 4A1360
Mathematical model for the density-augmented spreading of a particle-laden discharge in a turbulent shallow-water flow, J Eng Math 29(6) 497-516 (Nov 1995), 4A1361
Modified box schemes for pollutant transport in rivers with dead zones, Int J Numer Methods Fluids 21(12) 1123-1135 (Dec 1995), 5A1360
Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, Boundary-Layer Meteorol 76(1-2) 41-67 (Oct 1995), 5T1361
Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 6N31
Inside story of water-treatment processes, J Env Eng 121(12) 846-849 (Dec 1995), 6A1302
Determination of reaeration coefficients: Whole-lake approach, J Env Eng 122(4) 269-275 (Apr 1996), 9T1428
Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, Boundary-Layer Meteorol 77(2) 173-207 (Jan 1996), 11A1434
Solution of constrained nonlinear equations in modeling the release of liquified gases, J Comput Appl Math 67(1) 1-14 (Feb 1996), 11A1435
Standing waves at an outfall, J Hydraul Res 34(2) 147-160 (1996), 12T1019
Dosages from instantaneous releases of dense gases in wind tunnels and into a neutrally stable atmosphere, Boundary-Layer Meteorol 77(3-4) 211-231 (Feb 1996), 12A1438
Horizontal fractionation of rising and sinking particles in wind-affected currents, J Fluid Mech 316 325-334 (Jun 1996), 12A1439
Mexico City superficial aquitard and aquifer pollution (Spanish), Ingenieria Hidraul Mex 11(2) 5-14 (Aug 1996), 12T1440
Review of Lagrangian stochastic models for trajectories in the turbulent atmosphere, Boundary-Layer Meteorol 78(1-2) 191-210 (Feb 1996), 12A1441

514F. Snow and ice mechanics

Numerical simulation of river ice processes, J Cold Regions Eng 9(3) 107-118 (Sep 1995), 1A1438
Particle model for quasibrittle fracture and application to sea ice, J Eng Mech 121(9) 1016-1025 (Sep 1995), 1A1439
Simulation and analysis of upper Niagara River ice-jam conditions, J Cold Regions Eng 9(3) 119-134 (Sep 1995), 1A1440
Simulation of wet-snow accretion by axial growth on a transmission line conductor, Appl Math Model 19(9) 514-518 (Sep 1995), 1A1441
Crack nucleation in columnar ice due to elastic anisotropy and grain boundary sliding, Acta Metall Mat 43(10) 3783-3789 (Oct 1995), 2A1278
Ductile-to-brittle transition and ductile failure envelopes of orthotropic ice under biaxial compression, Acta Metall Mat 43(10) 3661-3668 (Oct 1995), 2T1279
Observations of crack nucleation in columnar ice due to grain boundary sliding, Acta Metall Mat 43(10) 3791-3797 (Oct 1995), 2A1280
Planar forcing of floating ice sheets, Int J Solids Struct 33(1) 19-31 (Jan 1996), 2A1281
Comparison of requirements for modeling snowdrift in the case of outdoor and wind tunnel experiments, Surveys Geophys 16(5-6) 711-727 (Nov 1995), 3A1388
Comparison of two avalanche-models with exemplary avalanches of Tyrol and Switzerland and the effects to hazard zoning, Surveys Geophys 16(5-6) 671-679 (Nov 1995), 3A1389
Crack nucleation in saline ice with interacting inhomogeneities, Cold Regions Sci Tech 23(4) 343-365 (Aug 1995), 3A1390
Experimental and theoretical determination of concentration profiles and influence of particle characteristics in blowing snow, Surveys Geophys 16(5-6) 695-710 (Nov 1995), 3A1391
Field measurements and model calibration in avalanche dynamics, Surveys Geophys 16(5-6) 635-648 (Nov 1995), 3A1392
Grain multiplication mechanism for the formation of transition zones in first year sea ice, Cold Regions Sci Tech 23(4) 367-375 (Aug 1995), 3A1393
Ice shedding from cables, Cold Regions Sci Tech 23(4) 377-388 (Aug 1995), 3A1394
Snow mechanics and avalanche formation: Field experiments on the dynamic response of the snow cover, Surveys Geophys 16(5-6) 621-633 (Nov 1995), 3A1395
Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, Mech Mat 21(4) 265-279 (Nov 1995), 4A16
Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, Mech Mat 21(4) 281-301 (Nov 1995), 4A705
Number of grains required to homogenize elastic properties of polycrystalline ice, Mech Mat 22(1) 51-64 (Jan 1996), 7A4
Predictions of ice contact forces on a marine screw propeller during the propeller-ice cutting process, Acta Polytech Scand Mech Eng 0(118) 2-140 (1995), 7A1152
Wing crack models of the brittle compressive failure of ice, Cold Regions Sci Tech 24(1) 41-55 (Jan 1996), 8A1023
Dynamic impact between a viscoelastic ice flow and a rigid structure, Cold Regions Sci Tech 24(1) 7-28 (Jan 1996), 8A1399
Effects of individual ridging events on the ice thickness distribution in the Arctic ice pack, Cold Regions Sci Tech 24(1) 75-82 (Jan 1996), 8A1400
Generation of internal waves beneath sea ice by a moving load, Cold Regions Sci Tech 24(1) 29-39 (Jan 1996), 8A1401
Probability distribution for peak stage on rivers affected by ice jams, J Cold Regions Eng 10(1) 36-57 (Mar 1996), 8A1402
Review of sea ice density, Cold Regions Sci Tech 24(1) 1-6 (Jan 1996), 8A1403
Study of the morphology of a discontinuous section of a first year arctic pressure ridge, Cold Regions Sci Tech 24(1) 83-100 (Jan 1996), 8A1404
Three dimensional anisotropic constitutive model for ductile behavior of columnar grained sea ice, Acta Mat 44(5) 1839-1847 (May 1996), 9A516
Application of foam insulation for remediation of degraded permafrost, Cold Regions Sci Tech 24(2) 205-212 (May 1996), 11A567
Fracture toughness of freshwater ice - Part I: Experimental technique and results, J Offshore Mech Arctic Eng 118(2) 135-140 (May 1996), 11A696
Fracture toughness of freshwater ice - Part II: Analysis and micrography, J Offshore Mech Arctic Eng 118(2) 141-147 (May 1996), 11A697
Computer model of glaze accretion on wires, J Offshore Mech Arctic Eng 118(2) 148-157 (May 1996), 11A1436
Effects of localized deformation on melting processes in ice, Cold Regions Sci Tech 24(2) 177-189 (May 1996), 11A1437
Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers, Cold Regions Sci Tech 24(2) 221-235 (May 1996), 11A1438
Electrical freezing potentials measured in a pingo growing in the western Canadian arctic, Cold Regions Sci Tech 24(2) 191-203 (May 1996), 11A1439
Ice fracture and spalling in ice-structure interaction, Cold Regions Sci Tech 24(2) 213-220 (May 1996), 11A1440
Influence of the surface liquid film on cylinder icing under marine conditions, J Offshore Mech Arctic Eng 118(2) 158-164 (May 1996), 11A1441
Preliminary results from fatigue tests on in situ sea ice beams, Cold Regions Sci Tech 24(2) 167-176 (May 1996), 11A1442
Simulation and observation of ice formation (freeze-over) in a lake, Cold Regions Sci Tech 24(2) 129-145 (May 1996), 11A1443
Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces, Cold Regions Sci Tech 24(2) 147-151 (May 1996), 11A1444
Stress interaction between multiple crevasses in glacier ice, Cold Regions Sci Tech 24(2) 107-116 (May 1996), 11A1445
Triaxial tests on crushed ice, Cold Regions Sci Tech 24(2) 153-165 (May 1996), 11A1446
Viscosity of fluidized snow, Cold Regions Sci Tech 24(2) 117-127 (May 1996), 11A1447
Experimental investigations and computational fracture mechanics modeling of brittle ice fragmentation, Acta Polytech Scand Mech Eng 0(120) 11-105 (1996), 12A736
Semi-empirical evaluation of long term ice loads on a ship hull, Marine Struct 9(9) 849-871 (1996), 12A859

514H. Waste management, pollution control

Numerical simulation of water quantity and quality for river-type reservoirs, J Hydrodyn 7(2) 96-103 (1995), 1T1442
Novel design for constant-pressure water-displacement gas collector, J Env Eng 121(10) 727-729 (Oct 1995), 2T1282
Sedimentation and reuse of titanium dioxide: Application to suspended-photocatalyst reactors, J Env Eng 121(10) 730-735 (Oct 1995), 2T1283
Evaluation of an effect of a porous asphalt pavement to add an infiltration pipe on runoff control (Japanese), Proc JSCE 521(II-32) 29-38 (Aug 1995), 3A1255
Probabilistic screening tool for ground-water contamination assessment, J Env Eng 121(11) 767-775 (Nov 1995), 3T1396
Use of iron salts to control dissolved sulfide in trunk sewers, J Env Eng 121(11) 824-829 (Nov 1995), 3T1397
Thermal imaging of hazardous organic fluids in concrete, Mat Struct 28(183) 526-533 (Nov 1995), 4A447
Transient storage equations for longitudinal solute transport in open channels: Temporal moments accounting for the effects of first-order decay, J Hydraul Res 33(5) 595-610 (1995), 4T919

Analytical model of progressive slope failure in waste containment systems, Int J Numer Anal Methods Geomech 20(1) 35-56 (Jan 1996), 6A543
Design of class-I sedimentation tanks, J Env Eng 122(1) 71-73 (Jan 1996), 6T882
Numerical model for sea outfall hydraulics, J Hydraul Eng 122(2) 82-89 (Feb 1996), 6A892
Commercial hazardous liquid waste disposers using thermojet afterburners, Russian Aeronaut 38(1) 95-100 (1995), 6A1300
Dynamics of deep-bed filtrations: Velocity, depth and media, J Env Eng 121(12) 850-859 (Dec 1995), 6T1301
Inside story of water-treatment processes, J Env Eng 121(12) 846-849 (Dec 1995), 6A1302
Surface water pretreatment using floating media filter, J Env Eng 122(1) 25-33 (Jan 1996), 6T1303
Use of fluorspar in water fluoridation, J Env Eng 122(2) 132-140 (Feb 1996), 6T1304
Study on independent effects of diesel engine operating conditions on nitric oxide formation and emissions through schematical combustion simulation, Proc Inst Mech Eng D 210(D1) 71-80 (1996), 7A1403
Spatial and temporal analysis of groundwater recharge with application to sampling design, Stochastic Hydrology Hydraul 10(1) 39-63 (Feb 1996), 8T1405
Energy and Environment - Proc of Int Conf on Energy and the Environment, 1995 (Begell House, New York, 1995) 9N30
Heat and Mass Transfer in Energy Systems and Environment Effects - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey (Begell House, New York, 1995) 9N31
Designing of composition of bentonite-cement slurry for cut-off walls constructed by the monophase method, Arch Hydro-Eng Env Mech 51(3-4) 7-23 (1994), 9A1429
Turbulent transport effect on hydrocyclone performance, J Env Eng 122(4) 306-313 (Apr 1996), 9A1430
Thermal Engineering for Global Environmental Protection (Begell House, New York, 1996) 10N42
Probabilistic analysis of ocean outfall mixing zones, J Env Eng 122(5) 359-367 (May 1996), 10T1453
Toxicity of organic chemicals and their mixtures to activated sludge microorganisms, J Env Eng 122(5) 424-429 (May 1996), 10A1454
Water quality model for continuous flow distribution networks, Ingenieria Hidraul Mex 11(1) 61-70 (il 1996), 10T1455
Case studies in dynamic modeling of large-scale wastewater treatment plants, Math Model Syst 1(3) 185-198 (Oct 1995), 11A1448
Destruction of organic compounds in water using supported photocatalysts, J Solar Energy Eng 118(2) 123-129 (May 1996), 11A1449
Groin area water exchange, J Hydraul Res 34(2) 161-172 (1996), 12A1021

514K. Other environmental problems

Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL (ASME Press, New York, 1995) 1N36
Numerical simulation of water quantity and quality for river-type reservoirs, J Hydrodyn 7(2) 96-103 (1995), 1T1442
Finite element in environmental engineering: Coupled thermo-hydro-mechanical processes in porous media including pollutant transport, Arch Comput Methods Eng 2(3) 1-54 (1995), 2A1215
Human-Powered Vehicles (Human Kinetics, IL, 1995) 3R18
Numerical solution of water quality equation for rivers (Japanese), Proc JSCE 521(II-32) 59-68 (Aug 1995), 3A887
Water quality control system considering storm runoff and its application (Japanese), Proc JSCE 521(II-32) 39-48 (Aug 1995), 3T1398
Effect of surroundings and roof corner geometric modifications on roof pressures on low-rise buildings, J Wind Eng Indust Aerodyn 58(1-2) 113-138 (Oct 1995), 4A1348
Surface water pretreatment using floating media filter, J Env Eng 122(1) 25-33 (Jan 1996), 6T1303
Individual biotransformation rates in chlorinated aliphatic mixtures, J Env Eng 122(2) 99-106 (Feb 1996), 6T1305
Performance and cost modeling of ultrafiltration, J Env Eng 121(12) 874-883 (Dec 1995), 6T1306
Water exchange and water quality in the coastal zone in the presence of structures, Coastal Eng 26(3-4) 207-223 (Dec 1995), 7A292
Influence of air pollutants in the ^{7}Be size distribution of atmospheric aerosols, Aerosol Sci Tech 24(2) 102-106 (FEb 1996), 8A1406
Overview of recycling issues for composite materials, J Thermoplastic Composite Mat 9(1) 4-20 (Jan 1996), 8A1407
Determination of reaeration coefficients: Whole-lake approach, J Env Eng 122(4) 269-275 (Apr 1996), 9T1428
Basic study on a noise barrier for reduction of wind load (Japanese), Proc JSCE 530(IV-30) 117-122 (Jan 1996), 9A1431
Characteristics - Galerkin and mixed FE approximation of contamination by compressible nuclear waste-disposal in porous media, Numer Methods PDE 12(3) 315-332 (May 1996), 9A1432
Multiple sources of buoyancy in a naturally ventilated enclosure, J Fluid Mech 311 177-192 (Mar 1996), 9A1433
Natural ventilation of an enclosure containing two buoyancy sources, J Fluid Mech 311 153-176 (Mar 1996), 9A1434
Water quality model for continuous flow distribution networks, Ingenieria Hidraul Mex 11(1) 61-70 (il 1996), 10T1455
Conceptual design of soil venting systems, J Env Eng 122(5) 399-406 (May 1996), 10T1456
Environmental issues of additives (3): Effect of engine oil additives on emissions control equipment, Japan J Trib 40(4) 253-259 (1995), 10T1457
Measurement of indoor bioaerosol levels by a direct counting method, J Env Eng 122(5) 374-378 (May 1996), 10T1458
Volumetric leaky-aquifer theory and type straight lines, J Hydraul Eng 122(5) 272-280 (May 1996), 10T1459
Advanced Methods for Groundwater Pollution Control - Proc of Int Symp at CISM, Udine, Italy, May 1994 (Springer-Verlag, New York, 1995) 11N46
Mexico City superficial aquitard and aquifer pollution (Spanish), Ingenieria Hidraul Mex 11(2) 5-14 (Aug 1996), 12T1440
Review of Lagrangian stochastic models for trajectories in the turbulent atmosphere, Boundary-Layer Meteorol 78(1-2) 191-210 (Feb 1996), 12A1441

514Y. Computational techniques

Implementation and performance of the time integration of a 3D numerical transport model, Int J Numer Methods Fluids 21(4) 349-367 (Aug 1995), 1A1437
Explicit mathematical models of distribution storage water quality, J Hydraul Eng 121(10) 699-709 (Oct 1995), 2A1277
Variable spatial and temporal weighting schemes for use in multi-phase compositional problems, Adv Water Resources 19(1) 1-27 (1996), 4T1362
Modified box schemes for pollutant transport in rivers with dead zones, Int J Numer Methods Fluids 21(12) 1123-1135 (Dec 1995), 5A1360
Computational pollutant environment assessment from propulsion-system testing, J Spacecraft Rockets 33(3) 386-392 (Jun 1996), 12A1331

514Z. Experimental techniques

Electrical freezing potentials measured in a pingo growing in the western Canadian arctic, Cold Regions Sci Tech 24(2) 191-203 (May 1996), 11A1439

IX. BIOENGINEERING

550. BIOMECHANICS

550B. Skeletal systems, bones, joints, ligaments, etc

Comparison of intersegmental joint dynamics to isokinetic dynamometer measurements, J Biomech 28(10) 1243-1256 (Oct 1995), 1A1443
Control of shoulder muscles during goal directed movements, an inverse dynamic analysis, J Biomech 28(10) 1179-1191 (Oct 1995), 1A1444
Tradeoffs between motion and stability in posterior substituting knee arthroplasty design, J Biomech 28(10) 1155-1166 (Oct 1995), 1A1445
Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, Med Eng Phys 17(7) 544-550 (Oct 1995), 1A1472
Regular and Chaotic Motions of Rigid Bodies - (Regulaere und chaotische Bewegung starrer Koerper) (German) (BG Teubner, Stuttgart, 1995) 2R9
Mechanics of biological materials and structures: Natures lessons for the engineer, Proc Inst Mech Eng C 209(C4) 221-235 (1995), 2A719
Biomechanics of the human patella during passive knee flexion, J Biomech 28(11) 1265-1279 (Nov 1995), 2A1284
Case for bone canaliculi as the anatomical site of strain generated potentials, J Biomech 28(11) 1281-1297 (Nov 1995), 2A1285
Osteonal structure better predicts tensile strength of healing bone than volume fraction, J Biomech 28(11) 1377-1390 (Nov 1995), 2A1286
Theoretical solution for the frictionless rolling contact of cylindrical biphasic articular cartilage layers, J Biomech 28(11) 1341-1355 (Nov 1995), 2A1287
Torsional properties of single osteons, J Biomech 28(11) 1409-1410 (Nov 1995), 2T1288
Model of spine, ribcage and pelvic responses to a specific lumbar manipulative force in relaxed subjects, J Biomech 28(11) 1403-1408 (Nov 1995), 2A1292
Material and compositional properties of selectively demineralized cortical bone, J Biomech 28(11) 1357-1368 (Nov 1995), 2A1309
Computer Simulations in Biomedicine (Comput Mech, Billerica MA, 1995) 3N48
Comparative analysis of bone stresses and strains in the Intoss dental implant with and without a flexible internal post, J Eng Med 209(H3) 139-147 (1995), 3T1399
Contact mechanics of ultrahigh-molecular-weight polyethylene for artificial knee joint, JSME Int J Ser A 38(4) 572-580 (Oct 1995), 3A1400
Influence of joints and soft tissue on the natural frequency of the human tibia using the impulse response method, J Eng Med 209(H3) 149-155 (1995), 3A1401
Ultrasonic measurement of bone and bone marrow thicknesses in femur covered with flesh by inserting a hip prosthesis stem, JSME Int J Ser A 38(4) 494-499 (Oct 1995), 3A1402
Three-dimensional human femoral strain analysis using ESPI, Opt Lasers Eng 23(5) 291-303 (1995), 3A1414
1995 Advances in Bioengineering, BED-Vol 31 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N35
Localization of knee joint cartilage pathology by multichannel vibroarthrography, Med Eng Phys 17(8) 583-594 (Dec 1995), 4A1363
Axial strain measurements in skeletal muscle at various strain rates, J Biomech Eng 117(3) 262-265 (Aug 1995), 5A1362
Cancellous bone Young's modulus variation within the vertebral body of a ligamentous lumbar-spine: Application of bone adaptive remodeling concepts, J Biomech Eng 117(3) 266-271 (Aug 1995), 5A1363
Development and validation of a 3D FE model of the pelvic bone, J Biomech Eng 117(3) 272-278 (Aug 1995), 5A1364
Implementation of strain rate as a bone remodeling stimulus, J Biomech Eng 117(3) 329-338 (Aug 1995), 5A1365
Snoring: Linear stability analysis and *in vitro* experiments, J Sound Vib 188(1) 39-54 (Nov 1995), 5A1366
Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, J Biomech 28(12) 1561-1569 (Dec 1995), 5A1371
Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $T_{GF\beta}$ release in response to cyclic strain, J Biomech 28(12) 1411-1418 (Dec 1995), 5A1373
Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, J Biomech 28(12) 1419-1427 (Dec 1995), 5A1379
Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, J Biomech 28(12) 1493-1503 (Dec 1995), 5A1383
Optimization technique for the calculation of in-vitro 3D vertebral motion, J Biomech Eng 117(3) 366-369 (Aug 1995), 5A1394
Application scanning acoustic microscopy in a bone remodeling study, J Biomech Eng 117(3) 286-292 (Aug 1995), 5A1395
Recent developments in the tribology of artificial joints, Trib Int 28(7) 485-495 (Nov 1995), 6A841
Biomechanics and design of shoulder arthroplasty, J Eng Med 209(H4) 207-213 (1995), 6A1307
Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, J Biomech 29(2) 151-160 (Feb 1996), 6A1308
Cyclic mechanical property degradation during fatigue loading of cortical bone, J Biomech 29(1) 69-79 (Jan 1996), 6A1309
Dynamic responses of the head and cervical spine to axial impact loading, J Biomech 29(3) 307-318 (Mar 1996), 6A1310
Effects of ageing and changes in mineral content in degrading the toughness of human femora, J Biomech 29(2) 257-260 (Feb 1996), 6A1311
Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, J Biomech 29(2) 261-267 (Feb 1996), 6A1312
Experimental study of periacetabular deformations before and after implantation of hip prostheses, J Biomech 29(1) 53-61 (Jan 1996), 6A1313
Fluid conductance of cancellous bone graft as a predictor for graft-host interface healing, J Biomech 29(1) 123-132 (Jan 1996), 6A1314
Moment arm length variations of selected muscles acting on talocrural and subtalar joints during movement: An *in vitro* study, J Biomech 29(1) 21-30 (Jan 1996), 6A1315
Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, J Biomech 29(1) 91-98 (Jan 1996), 6A1316
Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, Med Eng Phys 18(1) 70-78 (Jan 1996), 6A1317
Strain in the medial collateral ligament of the human knee under single and combined loads, J Biomech 29(2) 199-206 (Feb 1996), 6A1318
Winging of the scapula: The underlying biomechanics and an orthotic solution, J Eng Med 209(H4) 215-223 (1995), 6A1319
Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, Med Eng Phys 18(1) 79-87 (Jan 1996), 6T1331
Spatial organization of the haversian bone in man, J Biomech 29(2) 161-169 (Feb 1996), 6A1335
Evaluation of the implantable force transducer for chronic tendon-force recordings, J Biomech 29(1) 103-109 (Jan 1996), 6A1364
Experimental and theoretical study of the contact mechanics of five total knee joint replacements, J Eng Med 209(H4) 225-231 (1995), 6A1374
Influence of stretching and warm-up exercises on Achilles tendon reflex activity, J Sports Sci 13(6) 481-490 (Dec 1995), 6A1379
Analysis of load-relaxation in compressed segments of lumbar spine, Med Eng Phys 18(2) 99-104 (Mar 1996), 7A1404
Application of FEs to the stress analysis of articular cartilage, Med Eng Phys 18(2) 89-98 (Mar 1996), 7A1405
Effect of quadrupole on bone remodeling, Int J Eng Sci 34(3) 257-268 (Feb 1996), 7A1406
Stress and strain distribution within the intact femur: Compression or bending, Med Eng Phys 18(2) 122-131 (Mar 1996), 7A1407
Effects of sterilization treatments on adhesion of bone cells to titanium, J Adhesion 54(1-4) 145-154 (1995), 8A1408
Features of human jaw design which maximize the bite force, J Biomech 29(3) 589-595 (May 1996), 8A1409
Mechanical validation of whole bone composite femur models, J Biomech 29(4) 525-535 (Apr 1996), 8A1410
Methods for investigating the sensitivity of joint resultants to body segment parameter variations, J Biomech 29(5) 651-654 (May 1996), 8A1411
Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model, J Biomech 29(5) 693-704 (May 1996), 8A1412
Sense organs of insect legs and the selection of sensors for agile walking robots, Int J Robotics Res 15(2) 113-127 (Apr 1996), 8A1413
Static shoulder model based on a time-dependent criterion for load sharing between synergistic muscles, J Biomech 29(4) 451-460 (Apr 1996), 8A1414
Experimentally based nonlinear viscoelastic model of joint passive moment, J Biomech 29(4) 443-450 (Apr 1996), 8A1421
Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion, J Biomech 29(4) 391-403 (Apr 1996), 8A1425
Instrumented implant for measuring tibiofemoral forces, J Biomech 29(5) 667-671 (May 1996), 8A1437
Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, J Biomech 29(4) 569-572 (Apr 1996), 8A1440
Development and evaluation of a musculoskeletal model of the elbow joint complex, J Biomech Eng 118(1) 32-40 (Feb 1996), 9A1435
Importance of soft-tissue integrity on biomechanical studies of the patella after TKA, J Biomech Eng 118(1) 130-132 (Feb 1996), 9A1436
Stabilizing role of moments and pelvic rotation on the human spine in compression, J Biomech Eng 118(1) 26-31 (Feb 1996), 9A1437
Biomechanical studies of the remodeling of knee joint tendons and ligaments, J Biomech 29(6) 707-716 (Jun 1996), 10A1460
Change in trabecular architecture as measured by fractal dimension, J Biomech 29(6) 819-822 (Jun 1996), 10A1461
Clarification of the mechanical behavior of spinal motion segments through a 3D poroelastic mixed FE model, Med Eng Phys 18(3) 215-224 (Apr 1996), 10A1462
Determination of apinal facet joint loads from extra-articular strains: A theoretical validation, J Biomech 29(6) 785-790 (Jun 1996), 10A1463
Discussion on the design of a hip joint simulator, Med Eng Phys 18(3) 234-240 (Apr 1996), 10A1464

In vitro laxity-testers for knee joints of mice, J Biomech 29(6) 799-806 (Jun 1996), 10T1465
Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, J Biomech 29(6) 753-761 (Jun 1996), 10A1466
Engineering of Sport - Proc of the 1st Int Conf on the Eng of Sport, Sheffield, UK, July 1996 (Balkema, Rotterdam, Netherlands, 1996) 11N47
Biomechanical model for the myogenic response in the microcirculation - Part I: Formulation and initial testing, J Biomech Eng 118(2) 145-151 (May 1996), 11A1450
Biomechanical model for the myogenic response in the microcirculation - Part II: Experimental evaluation in rat cremaster muscle, J Biomech Eng 118(2) 152-157 (May 1996), 11A1451
Effect of the transverse component of the hip reaction on cement mantle stresses in a model of an implanted Exeter™ prosthesis, J Strain Anal Eng Des 31(3) 205-214 (May 1996), 11A1452
Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, J Biomech Eng 118(2) 216-220 (May 1996), 11A1453
Human head-neck biomechanics under axial tension, Med Eng Phys 18(4) 289-294 (Jun 1996), 11A1454
Mathematical expression of 3D configuration of the scoliotic spine, J Biomech Eng 118(2) 247-252 (May 1996), 11A1455
Microdamage and osteocyte-lacuna strain in bone: A microstructural FE analysis, J Biomech Eng 118(2) 240-246 (May 1996), 11A1456
Normal six-dof motions of knee joint during level walking, J Biomech Eng 118(2) 258-261 (May 1996), 11A1457
Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, J Biomech Eng 118(2) 227-239 (May 1996), 11A1458
Single integral finite strain viscoelastic model of ligaments and tendons, J Biomech Eng 118(2) 221-226 (May 1996), 11A1459
Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler, J Biomech 29(8) 989-1002 (Aug 1996), 12A715
Analysis of mechanical properties of cancellous bone under conditions of simulated bone atrophy, J Biomech 29(8) 1053-1060 (Aug 1996), 12A1442
Bone mineral lies mainly outside collagen fibrils: Predictions of a composite model for osteonal bone, J Biomech 29(7) 909-916 (Jul 1996), 12A1443
Effect of ultrasonically determined anisotropy on longitudinal fracture of cortical bone, J Eng Med 210(H2) 127-129 (1996), 12A1444
Estimating the contribution of muscles to joint torque based on motor-unit activity, J Biomech 29(7) 881-889 (Jul 1996), 12A1445
Fiber recruitment and shape changes of knee ligaments during motion: As revealed by a computer graphics-based model, J Eng Med 210(H2) 71-79 (1996), 12A1446
Influence of loading time and lubricant on the friction of articular cartilage, J Eng Med 210(H2) 109-119 (1996), 12A1447
Loading of the two bundles of the posterior cruciate ligament: An analysis of bundle function in A-P drawer, J Biomech 29(7) 873-879 (Jul 1996), 12A1448
Nonlinear transition period of broadband ultrasound attenuation as bone density varies, J Biomech 29(7) 963-966 (Jul 1996), 12A1449
Resistance to crack growth in human cortical bone is greater in shear than in tension, J Biomech 29(8) 1023-1031 (Aug 1996), 12A1450
Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", J Eng Med 210(H2) 81-87 (1996), 12A1451
Structural capacity of the knee to anterior cruciate ligament failure during quadriceps contraction: An *in vivo* study in the rat, J Biomech 29(7) 891-897 (Jul 1996), 12A1452
Study of the vibrational behavior of a healing tibia using FE modeling, J Biomech 29(8) 1003-1010 (Aug 1996), 12A1453
Validation of a 3D model of the knee, J Biomech 29(7) 955-961 (Jul 1996), 12A1454
Computer simulation of landing movement in downhill skiing: Anterior cruciate ligament injuries, J Biomech 29(7) 845-854 (Jul 1996), 12A1493

550C. Muscle mechanics

Evidence that maximum muscle stress is not a constant: Differences in specific tension in elbow flexors and extensors, Med Eng Phys 17(7) 529-536 (Oct 1995), 1A1446
Sonoelastic determination of human skeletal muscle elasticity, J Biomech 28(10) 1145-1154 (Oct 1995), 1A1447
EMG-assisted model of trunk loading during free-dynamic lifting, J Biomech 28(11) 1309-1317 (Nov 1995), 2A1289
Model for stress-induced growth in the developing heart, J Biomech Eng 117(3) 343-349 (Aug 1995), 5A1367
Relationship between muscle force and stiffness in the whole mammalian muscle: A simulation study, J Biomech Eng 117(3) 339-342 (Aug 1995), 5A1368
Moment arm length variations of selected muscles acting on talocrural and subtalar joints during movement: An *in vitro* study, J Biomech 29(1) 21-30 (Jan 1996), 6A1315
Winging of the scapula: The underlying biomechanics and an orthotic solution, J Eng Med 209(H4) 215-223 (1995), 6A1319
Musculo-articular modeling of the triceps brachii, J Biomech 29(2) 171-180 (Feb 1996), 6A1320
Quasistatic analysis of muscle forces in the shoulder mechanism during wheelchair propulsion, J Biomech 29(1) 39-52 (Jan 1996), 6A1321
Human wrist motors: Biomechanical design and application to tendon transfers, J Biomech 29(3) 331-342 (Mar 1996), 6A1325
Correcting trunk-muscle geometry obtained from MRI and CT scans of supine postures for use in standing postures, J Biomech 29(5) 643-646 (May 1996), 8A1415
Influence of varying muscle forces on lumbar intradiscal pressure: An *in vitro* study, J Biomech 29(4) 549-555 (Apr 1996), 8A1416
Mechanical output from individual muscles during explosive leg extensions: The role of biarticular muscles, J Biomech 29(4) 513-523 (Apr 1996), 8A1417
Stability of muscle fibers on the descending limb of the force-length relation: A theoretical consideration, J Biomech 29(5) 627-633 (May 1996), 8A1418
Stress and strain in the flight muscles as constraints on the evolution of flying animals, J Biomech 29(5) 577-581 (May 1996), 8A1419
Surface mechanomyogram reflects muscle fibers twitches summation, J Biomech 29(4) 475-481 (Apr 1996), 8T1442
Influence of the parameters of a human triceps surae muscle model on the isometric torque-angle relationship, J Biomech Eng 118(1) 17-25 (Feb 1996), 9A1438
Model of the flexion-extension motion in the elbow joint: Some problems concerning muscle forces modeling and computation, J Biomech 29(6) 763-722 (Jun 1996), 10A1467
Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, JSME Int J Ser C 39(2) 294-301 (Jun 1996), 12A435
Modeling of force production in skeletal muscle undergoing stretch, J Biomech 29(8) 1091-1104 (Aug 1996), 12A1455
Modeling the muscles of the scapula morphometric and coordinate data and functional implications, J Biomech 29(8) 1039-1051 (Aug 1996), 12A1456
Revised anatomical model of the abdominal musculature for torso flexion efforts, J Biomech 29(7) 973-977 (Jul 1996), 12T1457
Strain distribution on rat medial gastrocnemius during passive stretch, J Biomech 29(8) 1069-1074 (Aug 1996), 12A1458

550D. Kinesiology

ISB recommendations for standardization in the reporting of kinematic data, J Biomech 28(10) 1257-1261 (Oct 1995), 1T1448
Walking when utilizing a sensory feedback system and an electrical muscle stimulation gait orthosis, Med Eng Phys 17(7) 507-513 (Oct 1995), 1A1449
Biomechanics of the human patella during passive knee flexion, J Biomech 28(11) 1265-1279 (Nov 1995), 2A1284
Inverse dynamics model for the analysis, reconstruction, and prediction of bipedal walking, J Biomech 28(11) 1369-1376 (Nov 1995), 2A1290
Measurement system for the recognition of arm gestures using accelerometers, J Eng Med 209(H2) 129-134 (1995), 2A1291
Model of spine, ribcage and pelvic responses to a specific lumbar manipulative force in relaxed subjects, J Biomech 28(11) 1403-1408 (Nov 1995), 2A1292
Biological basis for instantaneous centers of rotation of the vertebral column, J Eng Med 209(H3) 177-183 (1995), 3A1403
Measurement of tooth displacements and mouthpiece forces during brass instrument playing, Med Eng Phys 17(8) 567-570 (Dec 1995), 4A1370
Dynamic models for sideways falls from standing height, J Biomech Eng 117(3) 309-318 (Aug 1995), 5A1369
Modeling and simulation of paraplegic ambulation in a reciprocating gait orthosis, J Biomech Eng 117(3) 300-308 (Aug 1995), 5A1370
Optimization technique for the calculation of in-vitro 3D vertebral motion, J Biomech Eng 117(3) 366-369 (Aug 1995), 5A1394
Quasistatic analysis of muscle forces in the shoulder mechanism during wheelchair propulsion, J Biomech 29(1) 39-52 (Jan 1996), 6A1321
Abduction-adduction moments at the knee during stair ascent and descent, J Biomech 29(3) 383-388 (Mar 1996), 6A1322
Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, J Biomech 29(2) 217-226 (Feb 1996), 6A1323
Graphic analysis of the biomechanics of the massless bi-articular chain: Application to the proximal bi-articular chain of the human finger, J Biomech 29(3) 355-366 (Mar 1996), 6A1324
Human wrist motors: Biomechanical design and application to tendon transfers, J Biomech 29(3) 331-342 (Mar 1996), 6A1325
Influence of lateral destabilization on compensatory stepping responses, J Biomech 29(3) 343-353 (Mar 1996), 6A1326
Leg stiffness and stride frequency in human running, J Biomech 29(2) 181-186 (Feb 1996), 6A1327
Postural control in young and elderly adults when stance is perturbed: Dynamics, J Biomech 29(3) 319-329 (Mar 1996), 6A1328
Soleus forces and soleus force potential during unrestrained cat locomotion, J Biomech 29(3) 271-279 (Mar 1996), 6A1329
State-space analysis of mechanical energy generation, absorption, and transfer during pedaling, J Biomech 29(1) 81-90 (Jan 1996), 6A1382
Features of human jaw design which maximize the bite force, J Biomech 29(5) 589-595 (May 1996), 8A1409
Comparison of mechanical energy expenditure of joint moments and muscle forces during human locomotion, J Biomech 29(4) 405-415 (Apr 1996), 8A1420
Experimentally based nonlinear viscoelastic model of joint passive moment, J Biomech 29(4) 443-450 (Apr 1996), 8A1421
Normalization of temporal-distance parameters in pediatric gait, J Biomech 29(5) 619-625 (May 1996), 8A1422
Restoration of pronosupination control by FNS in tetraplegia: Experimental and biomechanical evaluation of feasibility, J Biomech 29(4) 435-442 (Apr 1996), 8A1423
Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion, J Biomech 29(4) 417-434 (Apr 1996), 8A1424
Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion, J Biomech 29(4) 391-403 (Apr 1996), 8A1425
Static *in situ* calibration of force plates, J Biomech 29(5) 659-665 (May 1996), 8A1441
Functional knee brace alters joint torque and power patterns during walking and running, J Biomech 29(5) 583-588 (May 1996), 8A1448
Physical modeling of hip joint forces in stair climbing, J Eng Med 210(H1) 65-68 (1996), 9A1439
Three-dimensional joint co-ordination strategies of the upper limb during functional activities, J Eng Med 210(H1) 17-26 (1996), 9A1440
Model of the flexion-extension motion in the elbow joint: Some problems concerning muscle forces modeling and computation, J Biomech 29(6) 763-722 (Jun 1996), 10A1467
Energy transfer mechanisms as a compensatory strategy in below-knee amputee runners, J Biomech 29(6) 717-722 (Jun 1996), 10A1468
Hip impact velocities and body configurations for voluntary falls from standing height, J Biomech 29(6) 807-811 (Jun 1996), 10A1469
Improved agreement of foot segmental power and rate of energy change during gait: Inclusion of distal power terms and use of 3D models, J Biomech 29(6) 823-827 (Jun 1996), 10A1470
Influence of muscles on knee flexion during the swing phase of gait, J Biomech 29(6) 723-733 (Jun 1996), 10A1471
Measures of paraspinal muscle performance do not predict initial trunk kinematics after tripping, J Biomech 29(6) 735-744 (Jun 1996), 10A1472
Two-part, viscoelastic foot model for use in gait simulation, J Biomech 29(6) 795-798 (Jun 1996), 10A1473
Influence of external fixators on fracture motion during simulated walking, Med Eng Phys 18(4) 305-313 (Jun 1996), 11A1460
Analysis of motion of body center during human stair gait using force plate, JSME Int J Ser C 39(2) 265-271 (Jun 1996), 12A1459
Effect of divergent self-monitoring strategies on motor performance and emotion as a function of alternating task complexity, J Sports Sci 14(3) 233-242 (Jun 1996), 12T1460
Interaction between central programs and afferent input in the control of posture and locomotion, J Biomech 29(7) 841-844 (Jul 1996), 12A1461
Method for inverse dynamic analysis using accelerometry, J Biomech 29(7) 949-954 (Jul 1996), 12A1462
Quantification of the uncertainties in resultant joint moments computed in a dynamic activity, J Sports Sci 14(3) 219-231 (Jun 1996), 12A1463
Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, J Biomech 29(7) 979-983 (Jul 1996), 12A1489

550E. Mechanical properties of tissues and blood

Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO (ASME Press, New York, 1995) 1N40
Effect of hematocrit of adenosine diphosphate-induced aggregation of human platelets in tube flow, Biorheol 32(5) 537-552 (Oct 1995), 2T1293
Effect of two types of cross-linking on some mechanical properties of collagen, Bio-Med Mat Eng 5(1) 37-48 (1995), 2A1294
Impedance of a fibrin clot in a cylindrical tube: Relation to clot permeability and viscoelasticity, Biorheol 32(5) 503-520 (Oct 1995), 2A1295
Mechanical properties of the human heel pad: A Paradox resolved, J Biomech 28(11) 1299-1308 (Nov 1995), 2A1296
Microscopic photometric quantification of stiffness and relaxation time of red blood cells in a flow chamber, Biorheol 32(5) 553-570 (Oct 1995), 2T1297
Pressure-induced mechanical stress in the carotid artery bifurcation: A possible correlation to atherosclerosis, J Biomech 28(11) 1333-1340 (Nov 1995), 2A1298
Rheological approach to the analysis of blood coagulation in endothelial cell-coated tubes: Activation of the intrinsic reaction on the erythrocyte surface, Biorheol 32(5) 521-536 (Oct 1995), 2T1299
Stress stabilization behaviors in skin under small tensile loads *in vitro*, Bio-Med Mat Eng 5(2) 59-63 (1995), 2A1300
1995 Advances in Bioengineering, BED-Vol 31 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N35
Skin response to mechanical stress - Adaptation rather than breakdown: A review of the literature, J Rehab Res Dev 32(3) 214-226 (Oct 1995), 4A1364
Biomedical Engineering Handbook (CRC Press, Boca Raton FL, 1995) 5N32
Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, J Biomech 28(12) 1561-1569 (Dec 1995), 5A1371
Constitutive relationship for large deformation FE modeling of brain tissue, J Biomech Eng 117(3) 279-285 (Aug 1995), 5A1372
Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $TGF\beta$-release in response to cyclic strain, J Biomech 28(12) 1411-1418 (Dec 1995), 5A1373
Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, J Biomech 28(12) 1429-1438 (Dec 1995), 5A1374
Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, J Biomech 28(12) 1419-1427 (Dec 1995), 5A1379
Cyclic strain causes heterogeneous induction of transcription factors, AP-1, CRE binding protein and NF-kB in endothelial cells: Species and vascular bed diversity, J Biomech 28(12) 1485-1491 (Dec 1995), 5A1382
Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, J Biomech 28(12) 1493-1503 (Dec 1995), 5A1383
Multiple cis-elements mediate shear stress-induced gene expression, J Biomech 28(12) 1451-1457 (Dec 1995), 5A1384
Numerical investigation and prediction of atherogenic sites in branching arteries, J Biomech Eng 117(3) 350-357 (Aug 1995), 5A1393
Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, J Biomech 29(2) 151-160 (Feb 1996), 6A1308
Changes in segment mass and mass distribution during pregnancy, J Biomech 29(2) 251-256 (Feb 1996), 6T1330
Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, Med Eng Phys 18(1) 79-87 (Jan 1996), 6T1331
Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, J Biomech 29(1) 63-68 (Jan 1996), 6A1332
Intimal thickening under shear in a carotid bifurcation: A numerical study, J Biomech 29(1) 1-11 (Jan 1996), 6A1333
Nonlinear viscoelasticity and the thrombelastograph: I: Studies on bovine plasma clots, Biorheol 32(6) 621-630 (Dec 1995), 6A1334
Spatial organization of the haversian bone in man, J Biomech 29(2) 161-169 (Feb 1996), 6A1335
Wave transmission and reflection properties of stenoses, J Biomech 29(1) 31-38 (Jan 1996), 6A1336

Effect of aging and pressure on the specific hydraulic conductivity of the aortic wall, Biorheol 33(1) 17-44 (Feb 1996), 8A1426
Strain or deformation rate dependent finite growth in soft tissues, J Biomech 29(5) 647-649 (May 1996), 8A1427
Tethering affects the mechanics of coronary capillaries, J Biomech 29(5) 597-607 (May 1996), 8A1428
Theoretical study of dynamics of arterial wall remodeling in response to changes in blood pressure, J Biomech 29(5) 635-642 (May 1996), 8A1429
Viscoelastic properties of cultured porcine aortic endothelial cells exposed to shear stress, J Biomech 29(4) 461-467 (Apr 1996), 8A1430
Plausibility of structural constitutive equations for swelling tissues: Implications of the C-N and S-E conditions, J Biomech Eng 118(1) 10-16 (Feb 1996), 9A6
Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, J Biomech Eng 118(1) 133-135 (Feb 1996), 9A1441
Mechanical properties of tendons: Changes with sterilization and preservation, J Biomech Eng 118(1) 56-61 (Feb 1996), 9A1442
Poroelastic FE formulation including transport and swelling in soft tissue structures, J Biomech Eng 118(1) 1-9 (Feb 1996), 9A1443
Stress and strain distribution in hypertensive and normotensive rat aorta considering residual strain, J Biomech Eng 118(1) 62-73 (Feb 1996), 9A1444
Transmission of rapidly applied loads through articular cartilage - Part I: Uncracked cartilage, J Eng Med 210(H1) 27-37 (1996), 9A1445
Transmission of rapidly applied loads through articular cartilage - Part 2: Cracked cartilage, J Eng Med 210(H1) 39-49 (1996), 9A1446
Rheology of blood coagulation, Biorheol 33(2) 101-117 (Apr 1996), 10A1045
Deformability of red blood cells from different species studied by resistive pulse shape analysis technique, Biorheol 33(2) 169-179 (Apr 1996), 10A1474
Determination of collagen-proteoglycan interactions *in vitro*, J Biomech 29(6) 773-783 (Jun 1996), 10A1475
Influence of suspending phase viscosity on the passage of red blood cells through capillary-size micropores, Biorheol 33(2) 153-168 (Apr 1996), 10A1476
Quasi-linear constitutive relation for arterial wall materials, J Biomech 29(8) 1011-1014 (Aug 1996), 12A2
Influence of loading time and lubricant on the friction of articular cartilage, J Eng Med 210(H2) 109-119 (1996), 12A1447
Nonlinear transition period of broadband ultrasound attenuation as bone density varies, J Biomech 29(7) 963-966 (Jul 1996), 12A1449
Cosserat-type model for the red blood cell wall, Int J Eng Sci 34(8) 873-899 (Jun 1996), 12A1464
Elastic area compressibility of the rabbit aorta, J Biomech 29(8) 1033-1037 (Aug 1996), 12A1465
Influence of size, shape, and properties on the mechanics of axisymmetric saccular aneurysms, J Biomech 29(8) 1015-1022 (Aug 1996), 12A1466
Large strain analysis of soft biological membranes: Formulation and FE analysis, Comput Methods Appl Mech Eng 132(1-2) 45-61 (May 1996), 12A1467

550F. Organs

Finite element stress analysis of left ventricular mechanics in the beating dog heart, J Biomech 28(10) 1167-1177 (Oct 1995), 1A1450
Residual strain and local strain distributions in the rabbit atherosclerotic aorta, J Biomech 28(10) 1207-1217 (Oct 1995), 1A1451
Clamping the small intestine during surgery: Predicted and measured sealing forces, J Eng Med 209(H2) 111-115 (1995), 2T1301
Epicardial surface dynamics in the closed-chest normal canine, J Biomech 28(11) 1319-1332 (Nov 1995), 2A1302
In vivo measurement of spinal column viscoelasticity: An animal model, J Eng Med 209(H2) 105-110 (1995), 2T1308
Determination of the curvatures and bending strains in open trileaflet heart valves, J Eng Med 209(H2) 121-128 (1995), 2T1313
Computer Simulations in Biomedicine (Comput Mech, Billerica MA, 1995) 3N48
Measurements of ultrasonic backscatter coefficients in human liver and kindey *in vivo*, J Acoust Soc Am 98(4) 1852-1857 (Dec 1995), 3A273
Realistic 3D left ventricular ejection determined from computational fluid dynamics, Med Eng Phys 17(8) 602-608 (Dec 1995), 4A1365
Three-dimensional simulation of epicardial potentials using a microcumputer-based heart-torso model, Med Eng Phys 17(8) 625-632 (Dec 1995), 4A1366
Biomedical Engineering Handbook (CRC Press, Boca Raton FL, 1995) 5N32
Model for stress-induced growth in the developing heart, J Biomech Eng 117(3) 343-349 (Aug 1995), 5A1367
Experimental model investigation of the opening of a collapsed untethered pulmonary airway, J Biomech Eng 117(3) 245-253 (Aug 1995), 5A1375
Mechanical behavior of a mammalian lung alveolar duct model, J Biomech Eng 117(3) 254-261 (Aug 1995), 5A1376
Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, J Biomech 29(1) 63-68 (Jan 1996), 6A1332
Distributed mechanics of the canine right ventricle: Effects of varying preload, J Biomech 29(3) 373-381 (Mar 1996), 6T1337
In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion, J Eng Med 209(H4) 243-253 (1995), 6T1338
Model of blast overpressure injury to the lung, J Biomech 29(2) 227-234 (Feb 1996), 6A1339
Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, J Biomech 29(2) 187-198 (Feb 1996), 6A1345
Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, J Biomech 29(1) 111-121 (Jan 1996), 6A1349
Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, J Biomech 29(4) 503-511 (Apr 1996), 8A1434
Effects of cardiac infarction on realistic 3D left ventricular blood ejection, J Biomech Eng 118(1) 106-110 (Feb 1996), 9A1447
Cavitation dynamics of Medtronic Hall mechanical heart valve prosthesis: Fluid-squeezing effect, J Biomech Eng 118(1) 97-105 (Feb 1996), 9A1462
Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance, Med Eng Phys 18(3) 225-233 (Apr 1996), 10A1477
Mechanics of ventricular torsion, J Biomech 29(6) 745-752 (Jun 1996), 10A1478
Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, J Biomech Eng 118(2) 255-258 (May 1996), 11A1461
Mathematical model for the morphology of the pulmonary acinus, J Biomech Eng 118(2) 210-215 (May 1996), 11A1462
Regional elastic performance of the human cornea, J Biomech 29(7) 931-942 (Jul 1996), 12A1468

550G. Microbiomechanics

Effect of cross-links on the quarter-staggered molecular structure of fiber-forming collagen: A FE analysis, Biomimetics 3(2) 91-104 (Jun 1995), 1A1452
Microprojectile velocities in a gas driven launcher, Exp Fluids 19(5) 313-318 (Sep 1995), 3A1404
Biomachining of metals using bacteria (Japanese), J Japan Soc Precision Eng 61(10) 1389-1392 (Oct 1995), 4T653
Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $TGF\beta$ release in response to cyclic strain, J Biomech 28(12) 1411-1418 (Dec 1995), 5A1373
Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, J Biomech 28(12) 1429-1438 (Dec 1995), 5A1374
Cell orientation response to cyclically deformed substrates: Experimental validation of a cell model, J Biomech 28(12) 1543-1552 (Dec 1995), 5A1377
Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, J Biomech 28(12) 1471-1484 (Dec 1995), 5A1378
Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, J Biomech 28(12) 1419-1427 (Dec 1995), 5A1379
Compression-induced changes in the shape and volume of the chondrocyte nucleus, J Biomech 28(12) 1529-1541 (Dec 1995), 5A1380
Control of endothelial cell gene expression by flow, J Biomech 28(12) 1515-1528 (Dec 1995), 5A1381
Cyclic strain causes heterogeneous induction of transcription factors, AP-1, CRE binding protein and NF-kB in endothelial cells: Species and vascular bed diversity, J Biomech 28(12) 1485-1491 (Dec 1995), 5A1382
Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, J Biomech 28(12) 1493-1503 (Dec 1995), 5A1383
Multiple cis-elements mediate shear stress-induced gene expression, J Biomech 28(12) 1451-1457 (Dec 1995), 5A1384
PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, J Biomech 28(12) 1505-1513 (Dec 1995), 5A1385
Formulation of pre-extension in a practical stress-relaxation measurement of the plant cell wall, Biorheol 32(6) 611-620 (Dec 1995), 6A1340
Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, J Biomech 29(2) 187-198 (Feb 1996), 6A1345
Stress-strain curve and Young's modulus of a collagen molecule as determined by the X-ray diffraction technique, J Biomech 29(5) 655-658 (May 1996), 8A1431
Application of mechanical waves induced by piezofilms to marine fouling prevention, J Intelligent Mat Syst Struct 7(1) 33-43 (Jan 1996), 9A980
Fundamental study on electric field assisted biomachining (Japanese), J Japan Soc Precision Eng 62(4) 540-543 (Apr 1996), 11A620
Bacterial motion and flagellar motors, Japan J Trib 40(6) 551-559 (1995), 12T1469
Hydrodynamics of scallop locomotion: Unsteady fluid forces on clapping shells, J Fluid Mech 317 73-90 (Jun 1996), 12A1470
Method of signal processing in motion analysis of the trotting horse, J Biomech 29(8) 1111-1114 (Aug 1996), 12A1471

550H. Transport phenomena (diffusion)

Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO (ASME Press, New York, 1995) 1N40
Three dimensional convective-diffusive model for the transportation of macromolecules and water across the arterial wall, Acta Mech Sinica 11(3) 267-274 (1995), 3A1405
Computer simulation of convective diffusion processes in large arteries, J Biomech 29(2) 207-215 (Feb 1996), 6A1341
Numerical investigation into factors affecting anesthetic distribution during spinal anesthesia, J Biomech 29(2) 139-149 (Feb 1996), 6A1342
Theory of osteogenesis behavior based on calcium diffusion theory, Bio-Med Mat Eng 5(4) 209-217 (1995), 6T1343
Development of femoral atherosclerosis in relation to flow disturbances, J Biomech 29(4) 543-547 (Apr 1996), 8A1432
Poroelastic FE formulation including transport and swelling in soft tissue structures, J Biomech Eng 118(1) 1-9 (Feb 1996), 9A1443
Integral geometry in hyperbolic spaces and electrical impedance tomography, SIAM J Appl Math 56(3) 755-764 (Jun 1996), 11A1202

550I. Fluid mechanics of circulatory systems and other body fluids

Cavitation and Multiphase Flow - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N26
Bio-Medical Fluid Engineering - 1995 ASME/JSME Fluids Eng Conf (ASME Press, New York, 1995) 1N39
Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO (ASME Press, New York, 1995) 1N40
Flow visualization with air and smoke in a bypass graft model under steady flow conditions, J Biomech 28(10) 1237-1241 (Oct 1995), 1A1453
Role of synovial fluid filtration by cartilage in lubrication of synovial joints - III: Squeeze-film lubrication - Axial symmetry under low loading conditions, J Biomech 28(10) 1193-1198 (Oct 1995), 1A1454
Role of synovial fluid filtration by cartilage in lubrication of synovial joints - IV: Squeeze-film lubrication - The central film thickness for normal and inflammatory synovial fluids for axial symmetry under high loading conditions, J Biomech 28(10) 1199-1205 (Oct 1995), 1A1455
Transient analysis of artificial mechanical valve: Blood interaction, Appl Math Mech 16(5) 437-442 (May 1995), 1A1456
Peristaltic transport of two immiscible viscous fluids in a circular tube, J Fluid Mech 298 271-285 (Sep 1995), 2A956
Effect of fiber inertia on its orientation in a shear flow with application to lung dosimetry, Aerosol Sci Tech 23(3) 282-290 (Oct 1995), 2A1204
Biological-physical interactions in the upper ocean: The role of vertical and small scale transport processes, Annu Rev Fluid Mech 27 225-255 (1995), 2A1258
Electrochemical analysis of blood cell-substrate interactions under flow conditions, Biorheol 32(5) 571-587 (Oct 1995), 2T1303
Finite deformation of liquid capsules enclosed by elastic membranes in simple shear flow, J Fluid Mech 297 123-152 (Aug 1995), 2A1304
Laminar fluid transients in conduits of arbitrary cross section, J Eng Mech 121(10) 1069-1074 (Oct 1995), 2A1305
Computer Simulations in Biomedicine (Comput Mech, Billerica MA, 1995) 3N48
Microprojectile velocities in a gas driven launcher, Exp Fluids 19(5) 313-318 (Sep 1995), 3A1404
Acoustic trachea of Tettigoniids as an exponential horn: Theoretical calculations and bioacoustical measurements, J Acoust Soc Am 98(4) 1845-1851 (Dec 1995), 3A1406
Effects of external counterpulsation on the pulse waves in human aorta, Acta Mech Sinica 11(3) 275-283 (1995), 3A1407
Non-symmetrical wave propagation in arteries, Acta Mech 112(1-4) 135-148 (1995), 3A1408
1995 Advances in Bioengineering, BED-Vol 31 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N35
Fluid-structure interaction problems in bio-fluid mechanics: A numerical study of the motion of an isolated particle freely suspended in channel flow, Med Eng Phys 17(8) 609-617 (Dec 1995), 4A288
Realistic 3D left ventricular ejection determined from computational fluid dynamics, Med Eng Phys 17(8) 602-608 (Dec 1995), 4A1365
Effect of irregularities of vessel cross-section on vascular resistance, Fluid Dyn Res 17(1) 1-11 (Dec 1995), 4A1367
Hydrodynamics modeling of a physiological flow simulator (Spanish), J Brazilian Soc Mech Sci 17(2) 181-189 (1995), 4A1368
Initially deformed dissimilar elastic tubes containing fluid flow, Appl Math Model 20(1) 52-59 (Jan 1996), 5A226
Control of endothelial cell gene expession by flow, J Biomech 28(12) 1515-1528 (Dec 1995), 5A1381
Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, J Biomech 28(12) 1459-1469 (Dec 1995), 5A1386
Flow of Eringen fluid (simple microfluid) through an artery with mild stenosis, Int J Eng Sci 34(1) 87-99 (Jan 1996), 5A1387
Mechanism for heterogeneous endothelial responses to flow *in vivo* and *in vitro*, J Biomech 28(12) 1553-1560 (Dec 1995), 5A1388
Modeling interstitial flow in an artery wall allows estimation of wall shear stress on smooth muscle cells, J Biomech Eng 117(3) 358-363 (Aug 1995), 5A1389
Protein kinases as mediators of fluid shear stress stimulated signal transduction in endothelial cells: A hypothesis for calcium-dependent and calcium-independent events activated by flow, J Biomech 28(12) 1439-1450 (Dec 1995), 5A1390
Intimal thickening under shear in a carotid bifurcation: A numerical study, J Biomech 29(1) 1-11 (Jan 1996), 6A1333
Wave transmission and reflection properties of stenoses, J Biomech 29(1) 31-38 (Jan 1996), 6A1336
Analytical solution to solute transport in continuous arterio-venous hemodiafiltration, Med Eng Phys 18(1) 26-35 (Jan 1996), 6A1344
Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, J Biomech 29(2) 187-198 (Feb 1996), 6A1345
Influence of the angle of confluence on the flow in a vertebro-basilar junction model, J Biomech 29(3) 281-299 (Mar 1996), 6T1346
Merging flows in an arterial confluence: The vertebro-basilar junction, J Fluid Mech 304 119-141 (Dec 1995), 6A1347
Model based on dimensional analysis for non-invasive quantification of valvular regurgitation under confined and impinging conditions, J Biomech 29(1) 99-102 (Jan 1996), 6T1348
Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, J Biomech 29(1) 111-121 (Jan 1996), 6A1349
Novel video technique for visualizing flow structures in cardiovascular models, J Biomech 29(2) 239-244 (Feb 1996), 6A1359
Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, Med Eng Phys 18(1) 36-44 (Jan 1996), 6A1362
Singular perturbation model of fluid dynamics in the vestibular semicircular canal and ampulla, J Fluid Mech 307 333-372 (Jan 1996), 7A1408
Development of femoral atherosclerosis in relation to flow disturbances, J Biomech 29(4) 543-547 (Apr 1996), 8A1432
Effects of time-varying curvature on velocity profiles in a model of the coronary arteries, J Biomech 29(4) 469-474 (Apr 1996), 8A1433
Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, J Biomech 29(4) 503-511 (Apr 1996), 8A1434
Optimum kinetic energy dissipation in blood flow in glass capillaries by flow field determination: Analysis of curvature effect by axial tomographic and image velocimetry techniques, Biorheol 33(1) 59-74 (Feb 1996), 8A1435
Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, J Biomech 29(5) 609-618 (May 1996), 8A1436
Biological Flows (Plenum, New York, 1995) 9N32
Exponential-Lagrangian tracking schemes applied to Stokes Law, J Fluids Eng 118(1) 85-89 (Mar 1996), 9A1066

Shearing flow near a bypass with a ball in it, Appl Math Mech 17(1) 25-28 (Jan 1996), 9A1149
Consistency coefficient of a power-law flow of blood through the narrow vessel, Eng Trans 43(3) 373-382 (1995), 9A1448
Flow rate-pressure drop relation in coronary angioplasty: Catheter obstruction effect, J Biomech Eng 118(1) 83-89 (Feb 1996), 9A1449
Influence of non-Newtonian behavior of blood on flow in an elastic artery model, J Biomech Eng 118(1) 111-119 (Feb 1996), 9A1450
Micropolar fluid model for blood flow through an artery with mild stenosis, Eng Trans 43(3) 475-486 (1995), 9A1451
Pulsatile flow in the human left coronary artery bifurcation: Average conditions, J Biomech Eng 118(1) 74-82 (Feb 1996), 9A1452
Unsteady flow in a rigid 3D model of the carotid artery bifurcation, J Biomech Eng 118(1) 90-96 (Feb 1996), 9A1453
Hemodynamic Basis of Atherosclerosis, Second Edition (Begell House, New York, 1996) 10N43
Propagation of harmonic waves in an initially stressed thin elastic tube filled with an inviscid fluid, Trans Can Soc Mech Eng 20(1) 1-15 (1996), 10A245
Decay of soliton in small blood artery, J Phys Soc Japan 65(4) 945-947 (Apr 1996), 10A1479
Model studies of Leukocyte-Endothelium blood interactions - I: The fluid flow drag force on the adherent leukocyte, Biorheol 33(2) 119-138 (Apr 1996), 10T1480
Advances in Fluid Mechanics - Proc of 1st Int Conf, New Orleans, June 1996, Advances in Fluid Mechanics series, Vol 9 (Comput Mech, Billerica MA, 1996) 11N42
Biomechanical model for the myogenic response in the microcirculation - Part I: Formulation and initial testing, J Biomech Eng 118(2) 145-151 (May 1996), 11A1450
Biomechanical model for the myogenic response in the microcirculation - Part II: Experimental evaluation in rat cremaster muscle, J Biomech Eng 118(2) 152-157 (May 1996), 11A1451
Computer model of major haemorrhage and resuscitation, Med Eng Phys 18(4) 339-343 (Jun 1996), 11A1463
Focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries, Med Eng Phys 18(4) 326-332 (Jun 1996), 11A1464
Large curvature effect on pulsatile entrance flow in a curved tube: Model experiment simulating blood flow in an aortic arch, J Biomech Eng 118(2) 180-186 (May 1996), 11A1465
Particle volumetric residence time calculations in arterial geometries, J Biomech Eng 118(2) 158-164 (May 1996), 11A1466
Pendelluft effect on gas exchange in high-frequency ventilation, JSME Int J Ser B 39(2) 368-375 (May 1996), 11A1467
Numerical analysis of steady flow in aorto-coronary bypass 3D model, J Biomech Eng 118(2) 172-179 (May 1996), 11A1468
Effects of geometry and flow division on flow structures in models of the distal end-to-side anastomosis, J Biomech 29(7) 855-872 (Jul 1996), 12A1472
Estimation of increased flow resistance in a narrow catheterized artery: A theoretical model, J Biomech 29(7) 917-930 (Jul 1996), 12A1473
How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, J Biomech 29(7) 967-971 (Jul 1996), 12A1474
Numerical simulation of blood flow in an artery with two successive bends, J Biomech 29(8) 1075-1083 (Aug 1996), 12A1475
Pulsatile flow of non-Newtonian fluids through arterial stenoses, J Biomech 29(7) 899-908 (Jul 1996), 12A1476

550J. Brain and spinal trauma

Finite element model study of head impact based on hybrid III head acceleration: The effects of rotational and translational acceleration, J Biomech Eng 117(3) 319-328 (Aug 1995), 5A22

550K. Shock and vibration effects

Biomechanical modeling and simulations of automobile crash victims, Comput Struct 57(3) 541-549 (Nov 1995), 1A1457
Whole-body vibration exposure in Indian buses, Heavy Vehicle Syst 2(2) 160-173 (1995), 3A1409
Determination of effective thoracic mass, Shock Vib 3(1) 39-59 (1996), 6A1350
Study of the modal behavior of the human hand-arm system, J Sound Vib 191(1) 171-176 (Mar 1996), 9T1454
Engineering of Sport - Proc of the 1st Int Conf on the Eng of Sport, Sheffield, UK, July 1996 (Balkema, Rotterdam, Netherlands, 1996) 11N47

550L. Heat transfer aspects

Advances in Heat and Mass Transfer in Biotechnology, HTD-Vol 322-BED-Vol 32 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco (ASME Press, New York, 1995) 4N36
Counter current vascular network model of heat transfer in tissues, J Biomech Eng 118(1) 120-129 (Feb 1996), 9A1455

550M. Biopropulsion

Self-propulsion of spermatozoa in microcontinua: Effect of transverse wave motion of channel walls, Arch Appl Mech 66(1-2) 90-99 (Dec 1995), 5A1391
Numerical and experimental study of the propulsive speed of the three-joint bending propulsion mechanism, J Fluids Eng 118(1) 134-141 (Mar 1996), 9A1456
Moving the frontiers between robotics and biology, Robotics Autonomous Syst 16(2) 107-361 (Dec 1995), 11A374
Bacterial motion and flagellar motors, Japan J Trib 40(6) 551-559 (1995), 12T1469
Hydrodynamics of scallop locomotion: Unsteady fluid forces on clapping shells, J Fluid Mech 317 73-90 (Jun 1996), 12A1470
Simulating moth wing aerodynamics: Towards the development of flapping-wing technology, AIAA J 34(7) 1348-1355 (Jul 1996), 12A1477

550P. Biomaterials

Some mechanistic observation on water-deteriorated dental composite resins, Bio-Med Mat Eng 5(2) 93-115 (1995), 2A1306
Dynamic compaction of calcium phosphate biomaterials, J Mat Sci Mat Med 6(9) 545-551 (Sep 1995), 3A1410
Review of plasma treatment and the clinical application of polyethylene fibers to reinforcement of acrylic resins, J Mat Sci Mat Med 6(9) 497-504 (Sep 1995), 3A1411
Biomedical Engineering Handbook (CRC Press, Boca Raton FL, 1995) 5N32
Structural evaluation of ceramic femoral heads: Effect of taper friction, support conditions and trunnion compliance, J Biomech Eng 117(3) 293-299 (Aug 1995), 5A1396
Bioactive chemical fibers, Fibres Textiles in E Europe 1(2) 26-27 (Apr 1993), 6T1351
Biocompatibility of polysulfone - I: Surface modifications and characterizations, Bio-Med Mat Eng 5(4) 245-258 (1995), 6T1352
Biocompatibility of polysulfone - II: Platelet adhesion and CHO cell growth, Bio-Med Mat Eng 5(4) 259-273 (1995), 6T1353
Methods for developing synthetic sutures for surgery, Fibres Textiles in E Europe 2(3) 30-31 (Sep 1994), 6A1354
Polish carbon biomaterials and their use in medicine, Fibres Textiles in E Europe 1(1) 32-33 (Feb 1993), 6T1355
Polyester fibers (PET) with antibacterial properties, Fibres Textiles in E Europe 3(2) 56-57 (Jun 1995), 6A1356
Small diameter blood vessel prostheses, Fibres Textiles in E Europe 2(3) 32-33 (Sep 1994), 6A1357
Study of the tensile properties of living skin equivalents, Bio-Med Mat Eng 5(4) 195-208 (1995), 6A1358
Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, Med Eng Phys 18(2) 115-121 (Mar 1996), 7T1420
Dynamics of a gas permeable contact lens during blinking, J Appl Mech 63(2) 411-418 (Jun 1996), 12A1478
Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, JSME Int J Ser C 39(2) 356-364 (Jun 1996), 12A1490

550Y. Computational techniques

Temperature increase in a two-layer obstetric model of tissues in the case of linear and nonlinear propagation of a continuous ultrasonic wave, Arch Acoust 20(3) 237-246 (1995), 1A353
Computer Simulations in Biomedicine (Comput Mech, Billerica MA, 1995) 3N48
Multistage integration model for human egomotion perception, J Guidance Control Dyn 18(5) 937-944 (Oct 1995), 3A1412
Fabrication of vascular replicas from magnetic resonance images, J Biomech Eng 117(3) 364-366 (Aug 1995), 5A1392
Numerical investigation and prediction of atherogenic sites in branching arteries, J Biomech Eng 117(3) 350-357 (Aug 1995), 5A1393
Optimization technique for the calculation of in-vitro 3D vertebral motion, J Biomech Eng 117(3) 366-369 (Aug 1995), 5A1394
Computer simulation of convective diffusion processes in large arteries, J Biomech 29(2) 207-215 (Feb 1996), 6A1341
Novel video technique for visualizing flow structures in cardiovascular models, J Biomech 29(2) 239-244 (Feb 1996), 6A1359
Numerical simulation of the blood flow in the human cardiovascular system, J Biomech 29(1) 13-20 (Jan 1996), 6A1360
Stepwise regression is an alternative to splines for fitting noisy data, J Biomech 29(2) 235-238 (Feb 1996), 6A1361
Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, Med Eng Phys 18(1) 36-44 (Jan 1996), 6A1362
Computationally efficient sub-band coding of ECG signals, Med Eng Phys 18(2) 132-142 (Mar 1996), 7T1409
Discussion on the design of a hip joint simulator, Med Eng Phys 18(3) 234-240 (Apr 1996), 10A1464
Finite element analysis of fractured tibia treated with ZESPOL stabilizer, Comp Assisted Mech Eng Sci 3(1) 23-35 (31 1996), 10A1481
Numerical analysis of steady flow in aorto-coronary bypass 3D model, J Biomech Eng 118(2) 172-179 (May 1996), 11A1468
Numerical simulation of oil-droplet cleavage by surfactant, J Biomech Eng 118(2) 201-209 (May 1996), 11A1469
Method for inverse dynamic analysis using accelerometry, J Biomech 29(7) 949-954 (Jul 1996), 12A1462

550Z. Experimental techniques

Assessment of normal testis growth by quantitative texture analysis of 2D echo images, Med Eng Phys 17(7) 523-528 (Oct 1995), 1T1458
EBRA: A method to measure migration of acetabular components, J Biomech 28(10) 1225-1236 (Oct 1995), 1A1459
Effective algorithm for measuring diastolic artery diameters, Arch Acoust 20(1) 65-76 (1995), 1A1460
Method for the evaluation of tensile properties of skin equivalents, Med Eng Phys 17(7) 537-543 (Oct 1995), 1T1461
NLT and extrapolated DLT: 3D cinematography alternatives for enlarging the volume of calibration, J Biomech 28(10) 1219-1223 (Oct 1995), 1A1462
Non-invasive estimation of wall shear rate in humans by means of ultrasound, Arch Acoust 20(1) 57-63 (1995), 1A1463
Performance of ultrasonic speckle tracking in various tissues, J Acoust Soc Am 98(3) 1273-1278 (Sep 1995), 1A1464
Separation of fetal and maternal ECG complexes from a mixed signal using an algorithm based on linear regression, Med Eng Phys 17(7) 514-522 (Oct 1995), 1A1465
Measurement system for the recognition of arm gestures using accelerometers, J Eng Med 209(H2) 129-134 (1995), 2A1291
Development of photo-sensing bulge ductility tester, Bio-Med Mat Eng 5(2) 125-139 (1995), 2A1307
In vivo measurement of spinal column viscoelasticity: An animal model, J Eng Med 209(H2) 105-110 (1995), 2T1308
Material and compositional properties of selectively demineralized cortical bone, J Biomech 28(11) 1357-1368 (Nov 1995), 2A1309
Ultrasonic measurement of bone and bone marrow thicknesses in femur covered with flesh by inserting a hip prosthesis stem, JSME Int J Ser A 38(4) 494-499 (Oct 1995), 3A1402
Forces generated in guide-wires when drilling human bone, J Eng Med 209(H3) 157-162 (1995), 3T1413
Three-dimensional human femoral strain analysis using ESPI, Opt Lasers Eng 23(5) 291-303 (1995), 3A1414
Thyroid diagnosis by thermogram sequence analysis, Bio-Med Mat Eng 5(3) 169-183 (1995), 3A1415
Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, Bio-Med Mat Eng 5(3) 185-193 (1995), 3A1416
Localization of knee joint cartilage pathology by multichannel vibroarthrography, Med Eng Phys 17(8) 583-594 (Dec 1995), 4A1363
Design and performance of an experimental external fixation device with load transducers, Med Eng Phys 17(8) 618-624 (Dec 1995), 4A1369
Measurement of tooth displacements and mouthpiece forces during brass instrument playing, Med Eng Phys 17(8) 567-570 (Dec 1995), 4A1370
Application scanning acoustic microscopy in a bone remodeling study, J Biomech Eng 117(3) 286-292 (Aug 1995), 5A1395
Electrostatic harmonic microactuator for arterial plaque removal, J Micromech Microeng 5(4) 297-304 (Dec 1995), 6A346
Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, J Biomech 29(2) 151-160 (Feb 1996), 6A1308
Experimental study of periacetabular deformations before and after implantation of hip prostheses, J Biomech 29(1) 53-61 (Jan 1996), 6A1313
Determination of the proximity tolerance for measurement of surface contact areas using a magnetic tracking device, J Biomech 29(3) 367-372 (Mar 1996), 6A1363
Evaluation of the implantable force transducer for chronic tendon-force recordings, J Biomech 29(1) 103-109 (Jan 1996), 6A1364
Flow-pressure drop measurement and calculation in a tapered femoral artery of a dog, Biorheol 32(6) 655-684 (Dec 1995), 6A1365
Measurement of wear in retrieved acetabular sockets, J Eng Med 209(H4) 233-242 (1995), 6A1366
Real time frequency domain fiberoptic temperature sensor using ruby crystals, Med Eng Phys 18(1) 51-56 (Jan 1996), 6A1367
Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer, Biorheol 32(6) 631-641 (Dec 1995), 6A1368
Using acoustic reflectometry to determine breathing tube position and patency, J Sound Vib 188(2) 167-188 (Nov 1995), 6A1369
Design of an FECG scalp electrode fetal heart rate monitor, Med Eng Phys 18(2) 150-160 (Mar 1996), 7T1410
Fluid dynamics study of the Trac™ catheter, Med Eng Phys 18(2) 161-166 (Mar 1996), 7A1411
Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, Med Eng Phys 18(2) 105-109 (Mar 1996), 7T1412
Patient monitoring system for load measurement with spinal fixation devices, Med Eng Phys 18(2) 167-174 (Mar 1996), 7A1413
Vaginal temperature sensing using UHF radio telemetry, Med Eng Phys 18(2) 110-114 (Mar 1996), 7A1414
Instrumented implant for measuring tibiofemoral forces, J Biomech 29(5) 667-671 (May 1996), 8A1437
MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, J Biomech 29(4) 537-542 (Apr 1996), 8T1438
New method for theoretical analysis of static indentation test, J Biomech 29(5) 679-685 (May 1996), 8A1439
Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, J Biomech 29(4) 569-572 (Apr 1996), 8A1440
Static *in situ* calibration of force plates, J Biomech 29(5) 659-665 (May 1996), 8A1441
Surface mechanomyogram reflects muscle fibers twitches summation, J Biomech 29(4) 475-481 (Apr 1996), 8T1442
Use of an implantable force transducer to measure patellar tendon forces in goats, J Biomech 29(4) 557-561 (Apr 1996), 8A1443
Precise determination of anthropometric dimensions by means of image processing methods for estimating human body segment parameter values, J Biomech 29(4) 563-567 (Apr 1996), 8A1446
Measurement technique of shock wave pulses at extremely high pressures, Arch Acoust 21(1) 37-51 (1996), 9A394
Medical application of micromachine technology (Japanese), J Japan Soc Precision Eng 62(3) 368-372 (Mar 1996), 9T1457
Optimal design of biaxial tests for structural material characterization of flat tissues, J Biomech Eng 118(1) 41-47 (Feb 1996), 9A1458
Diagnostic set-up for time-resolved imaging of laser-induced ablation, Opt Lasers Eng 25(1) 1-12 (Jul 1996), 10T720
Accuracy of a video strain measurement system, J Biomech 29(6) 813-817 (Jun 1996), 10A1482
Accuracy of an electromagnetic tracking device: A study of the optimal operating range and metal interference, J Biomech 29(6) 791-793 (Jun 1996), 10A1483
Thickness measurement of soft tissue biomaterials: A comparison of five methods, J Biomech 29(6) 829-832 (Jun 1996), 10A1484
Computation of vascular flow dynamics from intravascular ultrasound images, Med Eng Phys 18(4) 295-304 (Jun 1996), 11A1470
Flow measurements in an aortocoronary bypass graft casting, J Biomech Eng 118(2) 165-171 (May 1996), 11A1471
Measurement of temperature with electron paramagnetic resonance spectroscopy, J Biomech Eng 118(2) 193-200 (May 1996), 11A1472
Comparison of contact sensor localization abilities during manipulation, Robotics Autonomous Syst 17(4) 217-233 (Jun 1996), 12A433
Mathematical model of a biosensor, J Eng Math 30(3) 321-337 (May 1996), 12A454
Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", J Eng Med 210(H2) 81-87 (1996), 12A1451

How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, J Biomech 29(7) 967-971 (Jul 1996), 12A1474
Rhythmic motions of plants: Measuring rotational movements of the root and cell turgor pressures (Japanese), J Japan Soc Precision Eng 62(5) 727-731 (May 1996), 12T1479
Six-dof instrumented linkage for measuring the flexibility characteristics of the ankle joint complex, J Biomech 29(7) 943-947 (Jul 1996), 12A1480
Time-dependent behavior of a force-sensitive resistor plantar pressure measurement insole, J Eng Med 210(H2) 121-125 (1996), 12A1481
Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, J Biomech 29(7) 979-983 (Jul 1996), 12A1489

552. HUMAN FACTORS, REHABILITATION, SPORTS

552B. Human factors, ergonomics, man-machine interface

Human-in-the-loop evaluation of remote manipulator system active damping augmentation, J Guidance Control Dyn 18(4) 689-695 (Aug 1995), 1A395
Additional 4WS and driver interaction, Vehicle Syst Dyn 24(8) 639-658 (Sep 1995), 1A406
Basic study on special bus service planning for improving mobility of elderly (Japanese), Proc JSCE 518(IV-28) 43-54 (Jul 1995), 1T1466
Ergonomics and Mechatronics (Japanese), J Japan Soc Precision Eng 61(7) 915-918 (Jul 1995), 1T1467
Rate of people who have transport physical difficulty and their traffic demands (Japanese), Proc JSCE 518(IV-28) 31-42 (Jul 1995), 1T1468
Review of transportation planning of the elderly and disabled, in Japan (Japanese), Proc JSCE 518(IV-28) 17-29 (Jul 1995), 1A1469
Special transport service for the elderly and the disabled (Japanese), Proc JSCE 518(IV-28) 55-67 (Jul 1995), 1A1470
Study on driving ability of elderly drivers and their evaluation of traffic environment (Japanese), Proc JSCE 518(IV-28) 69-77 (Jul 1995), 1A1471
Role of human factors and safety culture in safety management, Proc Inst Mech Eng J Eng Manuf 209(B5) 393-400 (1995), 2A1310
Flexible vehicle control using quantitative feedback theory, J Guidance Control Dyn 18(5) 1062-1067 (Oct 1995), 3A370
Hybrid fuzzy logic flight controller synthesis via pilot modeling, J Guidance Control Dyn 18(5) 1098-1105 (Oct 1995), 3T388
Multistage integration model for human egomotion perception, J Guidance Control Dyn 18(5) 937-944 (Oct 1995), 3A1412
Control stick logic in high-angle-of-attack maneuvering, J Guidance Control Dyn 18(5) 1092-1097 (Oct 1995), 3T1417
Safety optimizing strategies for local path planning in dynamic environments, Int J Robotics Autom 10(4) 130-142 (1995), 4A1371
Computer simulation of man-machine-environment system engineering, Chinese J Aeronaut 8(3) 168-173 (Aug 1995), 7A1415
Numerical simulation and investigation of human thermoregulation in cold environment, Chinese J Aeronaut 8(3) 160-167 (Aug 1995), 7A1416
Possibilities for future developments in primary safety requirements, Proc Inst Mech Eng D 210(D1) 1-9 (1996), 7A1417
Problems of windblast, Chinese J Aeronaut 8(3) 211-221 (Aug 1995), 7A1418
Thermal regulation of head region and its selective cooling, Chinese J Aeronaut 8(3) 205-210 (Aug 1995), 7A1419
Model for determining rider induced energy losses in bicycle suspension systems, Vehicle Syst Dyn 25(3) 223-246 (Mar 1996), 8A330
Determination of parameters of hydrologic model considering effect of human activity on runoff (Chinese), J Dalian Univ Tech 35(3) 400-404 (Jun 1995), 8A1444
Development of easy-to-understand vehicle malfunction warnings, Int J Vehicle Des 17(1) 27-39 (1996), 8A1445
Precise determination of anthropometric dimensions by means of image processing methods for estimating human body segment parameter values, J Biomech 29(4) 563-567 (Apr 1996), 8A1446
Vibration effects on setting pregnant women: Subjects of various masses, J Biomech 29(4) 493-501 (Apr 1996), 8A1447
Multiple sources of buoyancy in a naturally ventilated enclosure, J Fluid Mech 311 177-192 (Mar 1996), 9A1433
Natural ventilation of an enclosure containing two buoyancy sources, J Fluid Mech 311 153-176 (Mar 1996), 9A1434
Investigation of the mechanics of tactile sense using 2D models of the primate fingertip, J Biomech Eng 118(1) 48-55 (Feb 1996), 9A1459
Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), Proc JSCE 530(IV-30) 99-107 (Jan 1996), 9A1460
Theoretical study on effects of convexities placed on the surface of road marking on the visibility (Japanese), Proc JSCE 530(IV-30) 87-97 (Jan 1996), 9A1461
Hip impact velocities and body configurations for voluntary falls from standing height, J Biomech 29(6) 807-811 (Jun 1996), 10A1469
Integrated approach to Smart House technology for people with disabilities, Med Eng Phys 18(3) 203-206 (Apr 1996), 10A1485
Integrating assistive technologies: Current practices and future possibilities, Med Eng Phys 18(3) 193-202 (Apr 1996), 10A1486
Study on vibration serviceability limit state of pedestrian bridges based on human vibration sensibility (Japanese), Proc JSCE 537(I-35) 217-231 (Apr 1996), 11A143
Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, Int J Vehicle Des 17(3) 318-332 (1996), 11A145
Development of a home ankle exerciser, Med Eng Phys 18(4) 314-319 (Jun 1996), 11A1473
Maintenance of a commercial fusion power station and its implications for safety, Fusion Eng Des 31(1) 29-39 (Apr 1996), 11T1474
Simulation of emergency evacuation behavior during disaster by using distinct element method (Japanese), Proc JSCE 537(I-35) 233-244 (Apr 1996), 11A1475
Simulation of evacuation behavior in a disaster and its interaction with guide's instructions (Japanese), Proc JSCE 537(I-35) 257-266 (Apr 1996), 11A1476
Rehabilitation treadmill with software for providing real-time gait analysis and visual feedback, J Biomech Eng 118(2) 253-255 (May 1996), 11A1482
Analysis of the neural network recognition characteristics of six basic facial expressions, JSME Int J Ser C 39(2) 323-331 (Jun 1996), 12A1482
Effect of multisensory integration for scientific data sensualization, JSME Int J Ser C 39(2) 411-417 (Jun 1996), 12A1483
Improved accuracy six-load component pedal dynamometer for cycling, J Biomech 29(8) 1105-1110 (Aug 1996), 12A1484
Special Issue: International workshop on biorobotics: Human-robot symbiosis, Robotics Autonomous Syst 18(1-2) 1-291 (Jul 1996), 12A1485
Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), J Japan Soc Precision Eng 62(5) 712-716 (May 1996), 12A1486
Study on human-oriented interface for CNC machine tools, JSME Int J Ser C 39(2) 397-403 (Jun 1996), 12A1487

552F. Rehabilitation devices and controls

Tradeoffs between motion and stability in posterior substituting knee arthroplasty design, J Biomech 28(10) 1155-1166 (Oct 1995), 1A1445
Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, Med Eng Phys 17(7) 544-550 (Oct 1995), 1A1472
Empirical study on services and functions of expressway rest areas in Japan: Towards easy access for travelers with disabilities (Japanese), Proc JSCE 518(IV-28) 79-88 (Jul 1995), 1A1473
Perspectives on the role of afferent signals in control of motor neuroprostheses, Med Eng Phys 17(7) 481-496 (Oct 1995), 1T1474
Review of the *in vitro* evaluation of conduit-mounted cardiac valve prostheses, Med Eng Phys 17(7) 497-506 (Oct 1995), 1A1475
Cushion form bearings for total knee joint replacement - Part 1: Design, friction, and lubrication, J Eng Med 209(H2) 73-81 (1995), 2A1311
Cushion form bearings for total knee joint replacement - Part 2: Wear and durability, J Eng Med 209(H2) 83-91 (1995), 2A1312
Determination of the curvatures and bending strains in open trileaflet heart valves, J Eng Med 209(H2) 121-128 (1995), 2T1313
Estimation of fatigue life for a carbon fiber-poly ether ether ketone hip joint prosthesis, J Eng Med 209(H2) 93-103 (1995), 2A1314
Improvements in bio-mechanical adhesion of screws used in medical foild: First application in spinal surgery, Bio-Med Mat Eng 5(1) 1-7 (1995), 2A1315
Reinforcement of bone cement around prostheses by pre-coated wire coil: A FEM study, Bio-Med Mat Eng 5(1) 29-36 (1995), 2A1316
Design of a non-constrained, non-cemented, modular, metacarpophalangeal prosthesis, J Eng Med 209(H3) 185-195 (1995), 3A1418
Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, Bio-Med Mat Eng 5(3) 161-167 (1995), 3A1419
Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, Med Eng Phys 17(8) 559-566 (Dec 1995), 4A1372
Power wheelchair range testing and energy consumption during fatigue testing, J Rehab Res Dev 32(3) 255-263 (Oct 1995), 4A1373
Strain-based fatigue analysis of wheelchairs on a double roller fatigue machine, J Rehab Res Dev 32(3) 245-254 (Oct 1995), 4A1374
Structural evaluation of ceramic femoral heads: Effect of taper friction, support conditions and trunnion compliance, J Biomech Eng 117(3) 293-299 (Aug 1995), 5A1396
Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, J Eng Med 209(H4) 263-264 (1995), 6A796
Experimental study of periacetabular deformations before and after implantation of hip prostheses, J Biomech 29(1) 53-61 (Jan 1996), 6A1313
Quasistatic analysis of muscle forces in the shoulder mechanism during wheelchair propulsion, J Biomech 29(1) 39-52 (Jan 1996), 6A1321
Above-knee prosthesis with a system of energy recovery: A technical note, J Rehab Res Dev 32(4) 337-348 (Nov 1995), 6A1370
Biomechanical basis of choosing the rational mass and its distribution throughout the lower limb prosthesis segments, J Rehab Res Dev 32(4) 325-336 (Nov 1995), 6A1371
Design methodology for a multifunctional hand prosthesis, J Rehab Res Dev 32(4) 316-324 (Nov 1995), 6A1372
Effect of five prosthetic foot on the gait and loading of the sound limb in dysvascular below-knee amputees, J Rehab Res Dev 32(4) 309-315 (Nov 1995), 6A1373
Experimental and theoretical study of the contact mechanics of five total knee joint replacements, J Eng Med 209(H4) 225-231 (1995), 6A1374
Pulsatile impeller heart: A viable alternative to a problematic diaphragm heart, Med Eng Phys 18(1) 57-66 (Jan 1996), 6A1375
Stress distribution in the ankle-foot orthosis used to correct pathological gait, J Rehab Res Dev 32(4) 349-360 (Nov 1995), 6A1376
Wheelchair stability: Effect of body position, J Rehab Res Dev 32(4) 367-372 (Nov 1995), 6A1377
Fixation of femoral allograft-prosthesis composites after 25%, 50%, and 75% resection, Med Eng Phys 18(2) 115-121 (Mar 1996), 7T1420
Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, J Biomech 29(5) 609-618 (May 1996), 8A1436
Functional knee brace alters joint torque and power patterns during walking and running, J Biomech 29(5) 583-588 (May 1996), 8A1448
Relative friction minimization in fixed orthodontic bracket appliances, J Biomech 29(4) 483-491 (Apr 1996), 8A1449
Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, J Biomech 29(5) 687-692 (May 1996), 8A1450
Stability of walking frames, J Rehab Res Dev 33(1) 30-35 (Feb 1996), 8A1451
Cavitation dynamics of Medtronic Hall mechanical heart valve prosthesis: Fluid-squeezing effect, J Biomech Eng 118(1) 97-105 (Feb 1996), 9A1462
Finite element analysis of a total knee replacement by using Gauss point contact constraints, J Eng Med 210(H1) 51-63 (1996), 9A1463
Pneumatic assist device for gait restoration, J Dyn Syst Meas Control 118(1) 9-14 (Mar 1996), 9A1464
Finite element stress analysis of a hybrid fracture fixation plate, Med Eng Phys 18(3) 241-250 (Apr 1996), 10A1487
Frictional action at lower limb-prosthetic socket interface, Med Eng Phys 18(3) 207-214 (Apr 1996), 10A1488
Implications of the emerging home systems technologies for rehabilitation, Med Eng Phys 18(3) 176-180 (Apr 1996), 10A1489
Preliminary considerations on a new design concept for below the knee energy storing prosthesis, J Brazilian Soc Mech Sci 18(1) 1-7 (Mar 1996), 10A1490
Providing rehabilitation integrated systems using existing rehabilitation technology, Med Eng Phys 18(3) 187-192 (Apr 1996), 10T1491
Tactile transducer development for rehabilitation and exercise machines, European J Mech Eng 41(1) 19-24 (1996), 10A1492
Development of the robotic travel aid "HITOMI", Robotics Autonomous Syst 17(1-2) 119-128 (Apr 1996), 11A372
Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, J Biomech Eng 118(2) 255-258 (May 1996), 11A1461
Application of a mechanical filter to an artificial heart, J Biomech Eng 118(2) 187-192 (May 1996), 11A1477
Comparative testing of pulsatile impeller total heart and sarns nonpulsatile roller as biventricular assist device in pigs, Med Eng Phys 18(4) 320-325 (Jun 1996), 11A1478
Conduit-mounted cardiac valve prostheses: A review of their uses, design, and in vivo performance, Med Eng Phys 18(4) 263-272 (Jun 1996), 11A1479
Effect of debonding forces on bonded orthodontic brackets: FE study, Bio-Med Mat Eng 6(2) 113-121 (1996), 11A1480
Parametric stress analysis of bonded "combination-materials" type of orthodontic brackets, Bio-Med Mat Eng 6(1) 33-45 (1996), 11T1481
Rehabilitation treadmill with software for providing real-time gait analysis and visual feedback, J Biomech Eng 118(2) 253-255 (May 1996), 11A1482
Special Issue: International workshop on biorobotics: Human-robot symbiosis, Robotics Autonomous Syst 18(1-2) 1-291 (Jul 1996), 12A1485
Determination of lubricating film thickness for permeable hydrogel and non-permeable polyurethane layers bonded to a rigid substrate with particular reference to cushion form hip joint replacements, J Eng Med 210(H2) 89-93 (1996), 12A1488
Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, J Biomech 29(7) 979-983 (Jul 1996), 12A1489
Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, JSME Int J Ser C 39(2) 356-364 (Jun 1996), 12A1490
Proximal interphalangeal joint dimensions for the design of a surface replacement prosthesis, J Eng Med 210(H2) 95-108 (1996), 12A1491

552K. Sports mechanics

Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO (ASME Press, New York, 1995) 1N40
Dynamic optimization analysis for equipment setup problems in endurance cycling, J Biomech 28(11) 1391-1401 (Nov 1995), 2A1317
Human-Powered Vehicles (Human Kinetics, IL, 1995) 3R18
Optimization of the clubface shape of a golf driver to minimize dispersion of off-center shots, Comput Struct 58(6) 1217-1224 (Mar 1996), 5A695
Estimating propulsive forces in swimming from 3D kinematic data, J Sports Sci 13(6) 447-454 (Dec 1995), 6A1378
Influence of stretching and warm-up exercises on Achilles tendon reflex activity, J Sports Sci 13(6) 481-490 (Dec 1995), 6A1379
Minimum-time running and swimming: An optimal control approach, J Biomech 29(2) 245-249 (Feb 1996), 6A1380
Postural stability and skilled performance: A study on top-level and naive rifle shooters, J Biomech 29(3) 301-306 (Mar 1996), 6A1381
State-space analysis of mechanical energy generation, absorption, and transfer during pedaling, J Biomech 29(1) 81-90 (Jan 1996), 6A1382
Three-dimensional videography of swimming with panning periscopes, J Biomech 29(5) 673-678 (May 1996), 8A1452
Energy transfer mechanisms as a compensatory strategy in below-knee amputee runners, J Biomech 29(6) 717-722 (Jun 1996), 10A1468
Engineering of Sport - Proc of the 1st Int Conf on the Eng of Sport, Sheffield, UK, July 1996 (Balkema, Rotterdam, Netherlands, 1996) 11N47
Method of signal processing in motion analysis of the trotting horse, J Biomech 29(8) 1111-1114 (Aug 1996), 12A1471
Improved accuracy six-load component pedal dynamometer for cycling, J Biomech 29(8) 1105-1110 (Aug 1996), 12A1484
Comparison of techniques used by elite gymnasts in performing the basket-to-handstand mount, J Sports Sci 14(3) 269-279 (Jun 1996), 12A1492
Computer simulation of landing movement in downhill skiing: Anterior cruciate ligament injuries, J Biomech 29(7) 845-854 (Jul 1996), 12A1493
Dynamics of human flight on skis: Improvements in safety and fairness in ski jumping, J Biomech 29(8) 1061-1068 (Aug 1996), 12A1494
Relationship between basketball shooting kinematics, distance and playing position, J Sports Sci 14(3) 243-253 (Jun 1996), 12A1495
Three-dimensional analysis of the angular momentum of a pole-vaulter, J Biomech 29(8) 1085-1090 (Aug 1996), 12A1496

X. GENERAL & MISCELLANEOUS

Mathematical Analysis in Engineering (Cambridge UP, New York, 1995) 1R41

Mecanique: Points Materiels, Solides, Fluides - Avec 250 Exercices et Problemes Resolus (French) (Masson, Paris, 1995) 1R42

ASM Engineered Materials Handbook, Desk Edition (ASM Int, Materials Park OH) 2N53

Mathematical Methods for Curves and Surfaces (SIAM, Phila, PA) 2N54

Properties of Optical Glass - Schott Series on Glass and Glass Ceramics (Springer-Verlag, New York, 1995) 2N55

Mathematics Handbook for Science and Engineering (Birkhauser, NY, 1995) 3N49

Proc Japan-Central Europe Joint Workshop on Advanced Computing in Engineering (Polish Academy of Sciences, Warsaw, Poland, 1994) 3N50

Proceedings of the 22nd Yugoslav Congress of Theoretical and Applied Mechanics, May 29 - June 3, 1995 (Mixed Languages) (Yugoslav Soc Mech, Yugoslavia, 1995) 3N51

Handbook of Exact Solutions for Ordinary Differential Equations (CRC Press, Boca Raton FL, 1995) 5N33

Introduction to Fourier Series - Pure and Applied Mathematics Series, 199 (Marcel Dekker, New York, 1996) 5N34

Qualitative Estimates for Partial Differential Equations: An Introduction (CRC Press, Boca Raton FL, 1995) 5N35

Engineering Mechanics: Statics, Second Edition (Wiley, New York, 1996) 6R34

International Encyclopedia of Heat and Mass Transfer (CRC Press, Boca Raton FL, 1996) 6N35

Physics Quick Reference Guide (AIP, Woodbury, NY, 1996) 6N36

Contemporary Research in Engineering Science - Computational Mechanics, Fracture, and Structural Mechanics Series (Springer-Verlag, New York, 1996) 7N30

CRC Practical Handbook of Materials Selection (CRC Press, Boca Raton FL, 1995) 7N31

Computational Methods and Testing for Engineering Integrity - 1st Int Conf, March 1996, Kuala Lumpur, Malaysia (Comput Mech, Billerica MA, 1996) 9N33

Engineering Optimization: Theory and Practice, Third Edition (Wiley, New York, 1996) 9N34

Current Advances in Mechanical Design and Production - VI - Proc of 6th Cairo Univ Int MDP Conf, Cairo, January 1996 (Elsevier Sci, New York, 1996) 10N44

Engineering Mechanics: Statics, Third Edition (PWS-Kent, Boston, MA, 1995) 10N45

Handbook of Physical Properties of Liquids and Gases, Augmented and Revised Edition (Begell House, New York, 1996) 10N46

Marks' Electronic Handbook for Mechanical Engineers (McGraw-Hill, New York, 1996) 10N47

Selected Works in Applied Mechanics and Mathematics (Jones and Bartlett, Sudbury MA, 1996) 11R48

Civil Engineering Handbook (CRC Press, Boca Raton FL, 1995) 11N49

Standard Handbook of Consulting Engineering Practice, Second Edition (McGraw-Hill, New York, 1996) 11N50

Linear Differential Operators - Classics in Applied Mechanics, 18 (SIAM, Phila, PA, 1996) 12N48

AMR AUTHOR INDEX FOR VOLUME 49 (1996)

References to AMR (at the end of each entry) are coded in the form nLm, where n is an integer which gives the AMR issue number (1 for Jan, 2 for Feb, etc), L is a letter (R, N, A, or T), and m is the sequence number of the item within the issue. If L = R or N, the item is in the BOOK REVIEWS section with R indicating a signed Review and N a staff-prepared Note. If L = A or T, the item is in the REVIEW OF THE JOURNAL LITERATURE section with A indicating that an abstract is given and T that only the title of the article is given. Under each author's name the entries are listed alphabetically by title.

A

AANNAQUE, A: Operation of a four-bar mechanism above several critical speeds, 10A83
AARSETH, JB: Flow of a power-law fluid film on an unsteady stretching surface, 8A901
ABA, M: Properties of microcracks formed on surface of concrete at steam curing period (Japanese), 2T601
ABACHARAEV, IM: Chrome-titanium surface alloying in a mould, 12T697
ABACHARAEV, MM: Chromo-titanium surface alloying in a mould, 12T697
ABAD, A: Potential of attraction for an elliptic ring, 8T234
ABARBANEL, HDI: Nonlinear analysis of environmental distortions of continuous wave signals in the ocean, 6A238
ABARBANEL, S: External flow computations using global boundary conditions, 9A1109
ABASCAL, R: Two dimensional transient dynamic friction contact problems - II: Applications to soil-structure interaction problems, 8A1335
- Two dimensional dynamic friction contact problems - I: Numerical analysis, 8A394
ABASHEV, VM: Implementation of expert system RYS when conceptual designing SPRE, 8A342
ABASHICHEV, EN: Dispersed film boiling heat transfer, 1A1240
ABBAS, A: Optimization of the geometry of electrostatic micromotors using only analytical equations, 10T469
ABBAS, H: Soft missile impact on rigid targets, 2A170
- Prediction of error of FE results, 12A28
ABBASNIA, R: Large deformation elastic-plastic analysis of space frames, 5A490
ABBITT, JD: Step response of pressure-sensitive paints, 8A1044
ABBO, AJ: Automatic load stepping algorithm with error control, 10A16
ABBOTT, AH: Sources of error in eigenvalue spectra for pipe-Poiseuille flows, 12T1139
ABBOTT, AV: Human-Powered Vehicles, 3R18
ABBOTT, TB: Statistical mechanical model of solidification, 3A1121
ABBOUD, BE: Flexural behavior of reinforced concrete masonry walls under out-of-plane monotonic loads, 11A753
ABD ALLAH, MH: Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, 9A752
ABD EL LATIF, AK: Finite element analysis of stresses due to pitting of steel specimens under different cyclic bending stresses, 5A19
ABD-ALLA, AM: Transient response of inhomogeneous transversely isotropic thermoelastic cylinder to a dynamic input, 6A1162
- Influence of gravity and an initial stress on the propagation of waves in an orthotropic elastic medium, 11A170
ABDALLA, E: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459
ABDALLA, KM: Analysis and design of mushroom slabs with a strut-tie model, 3A581
ABDALLA, KN: Microcomputer-based control system for efficient energy utilization and water consumption in greenhouses, 11A1232
ABDEL HAMID, A: Experimental determination of dynamic forces during transient orthogonal cutting, 7A739
ABDEL WAHAB, M: Flow of a fluid of grade two between two eccentric rotating spheres, 10A1080
ABDEL WAHAB, MM: Three-dimensional six-noded FE containing a λ singularity, 1A42
- Two-dimensional four-noded FE containing a singularity of order λ, 8A49
- Finite element solution for elliptical cracks using the ICCI method, 8A681
- Family of elements with λ singularity, 12A36
ABDEL-FATTAH, H: Fracture toughness of concrete, 7A845
ABDEL-HALIM, MA: Model studies on bored piles in stiff expansive clay, 4A614
ABDEL-KHALIK, SI: Comparison between theoretical models and experimental data for the spreading of liquid droplets impacting a solid surface, 12T1237
ABDEL-RAHIM, YM: Exergy analysis of radial inflow expansion turbines for power recovery, 2A1076
ABDEL-RAHMAN, AA: Near field characteristics of circular jets at low Reynolds numbers, 11A972
ABDEL-RAHMAN, AK: Computational heat and mass transport in concrete walls exposed to fire, 8A1243
ABDEL-RAHMAN, M: Workability in forging of powder metallurgy compacts, 6A586
ABDEL-ROHMAN, M: Feasibility of active and passive pulse control for flexible structures, 1A409
- Control of nonlinear vibrations of foundations built in sandy soil, 6A727
- Structural control of a steel jacket platform, 8A334
- Dynamic response of hinged-hinged single span bridges with uneven deck, 8A144
- Control by passive TMD of wind-induced nonlinear vibrations in cable stayed bridges, 10A211
ABDEL-SALAM, A: Modeling of colloid and colloid-facilitated contaminant transport in a 2D fracture with spatially variable aperture, 4A1293
ABDELATIF, L: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459
ABDELGADER, HS: Influence of the coarse-aggregate on the compressive strength of the Polcrete concrete, 9A944
ABDELQARI, A: Effect of body geometry and incident flow characteristics on the distortion of turbulence, 5T962
ABDIN, A: Stochastic analysis of multiphase flow in porous media - I: Spectral-perturbation approach, 2T1219
- Stochastic analysis of two-phase flow in porous media - II: Comparison between two perturbation and Monte-Carlo results, 3A1257
- Stochastic analysis of two-phase flow in porous media - I: Spectral-perturbation approach, 3A1256
ABDIN, EM: Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, 9A752
ABDO, Z: Innovative approach to fatigue disbond propagation in adhesive joints, 9A827
ABDOLLAHI, A: Numerical strategies in the application of the FEM to RC structures - I, 5A15
- Investigation of objectivity in the application of the FEM to RC structures - II, 5A13
ABDOU, MA: Modeling of fully-developed, liquid metal, thin film flows for fusion divertor applications, 4A1037
ABDRAKHMANOV, AR: Determination of heat transfer through a vapor gap at boiling cryogenic liquid in the Leidenfrost regime, 11A1173
ABDUL ALEEM, BJ: Corrosion and corrosion fatigue resistance of a modified aluminum-magnesium alloy in Arabian Gulf seawater environment, 2A590
ABDUL-RAZZAK, HA: Thermoeconomic optimization of sensible heat thermal storage for cogenerated waste-to-energy recovery, 5A1290
ABDULJABBAR, Z: Active vibration control of a flexible rotor, 4A142
ABDULJAUWAD, SN: Geotechnical behavior of saline sabkha soils, 2A511
ABDULLAH: Investigation into the behavior and strength of bolted connections in ferrocement, 1A951
ABDULMUIN, MZ: Investigations on preheated palm oil methyl esters in the diesel engine, 10A1388
ABE, H: Current density and temperature distribution near the corner of angled metal line, 2T1121
- Search for collision orbits in the free-fall three-body problem - I: Numerical procedure, 7A308
- NDE of a crack by using closely coupled probes for DCPD technique, 10A868
- Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), 11A752
- Robust Boolean set operation of polygons with degenerate intersections based on variable tolerances and topological necessary conditions (Japanese), 11A269
ABE, HIROTOSHI: Time dependent behavior of concrete in early ages and its modeling (Japanese), 2A415
ABE, HISAO: Non-destructive testings and their feasibility study in concrete structures (Japanese), 4A816
ABE, I: Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, 5A1329
ABE, K: Design of practically stable n-dimensional feedback systems: A state-space approach, 11A294
ABE, M: Current state of processing and problems of chemical-mechanical polishing on the semiconductor device manufacturing (Japanese), 11T614
- Semi-active tuned mass dampers for seismic protection of civil structures, 12A1405
ABE, N: Asphalt pavement structural design for railway container yards (Japanese), 2A528
ABE, S: Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), 5A126
- Safety check method of steel frame check dam by elastic-plastic reliability analysis (Japanese), 9A906
ABE, T: Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, 10A560
ABEBE, AT: Fracture behavior of a cohesive soil under crushing stress loading, 9A665
ABEDZADEH, F: Torsional contact problem for an indented half-space, 9A483
ABENDROTH, RE: Diaphragm effectiveness in prestressed-concrete girder bridges, 1A911
ABERCROMBIE, RE: Testing a model of earthquake nucleation, 6A1262
- Reliable and economical high-temperature deep-borehole seismic recording, 11A1394
ABERG, B: Grain-size distribution for smallest possible void ratio, 6A526
- Void sizes in granular soils, 8A530
ABERS, GA: Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, 6A1228
ABHARY, K: Maximum stress in round structural members under general case of static loading, 12A584
ABHISHEK, K: Experimental realization of premixed methane-air cylindrical flames, 1A1343
ABHYANKAR, NS: Near-minimum-time maneuvers of large structures: Theory and experiments, 4T375
ABID, R: Transition in supersonic and hypersonic boundary layers, 2A946
- Near-wall integration of Reynolds stress turbulence closures with no wall damping, 3T972
- Prediction of nonequilibrium turbulent flows with explicit algebraic stress models, 4A1081
- Freestream matching condition for stagnation point turbulent flows: An alternative formulation, 9A1196
- Effect of laminar flow control by suction on separation, 12T1096
ABIRU, S: Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), 11A118
ABLETT, S: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
ABMA, R: Lateral prediction for noise attenuation by t-x and f-x techniques, 3A1291
ABNEY, M: Ekman pumping in compact astrophysical bodies, 10A1104
ABOM, M: Note on the aeroacoustic source character of in-duct axial fans, 3A253
- Maximum sound power from in-duct sources with applications to fans, 4T305
ABOU-EL-YAZID, TG: Load sway control of overhead cranes with load hoisting via stability analysis, 9A1006
ABOU-ELLAIL, MMM: Flamelet structure of radiating CH_4: Air Flames, 1A1329
ABOUBI, K: Convective heat transfer in an annular fluid layer with centrifugal force field, 1A1207
- Convective heat transfer in an annular porous layer with centrifugal force field, 1A1218
ABOUDI, J: Dynamic inelastic response and buckling of metal matrix composite infinitely wide plates due to thermal shocks, 1A664
- Thermoelastic theory for the response of materials functionally graded in two directions, 6A1160
- Coupled micro to macro analysis of a composite that hosts embedded piezoelectric actuators, 9A648
ABOUELSOUD, AA: Linear state feedback regulator for rigid link manipulators, 11A392
ABOUSLEIMAN, Y: Finite element analyses of anisotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, 12A1352
- Mandel's problem revisited, 12A646
ABOUTALEBI, MR: Numerical study of coupled turbulent flow and solidification for steel slab castors, 1A1214
ABOVSKY, M: Tethering affects the mechanics of coronary capillaries, 8A1428
ABRAHA, P: Manufacturing of high aspect ratio micro structures using UV sensitive photopolymer, 12A703
ABRAHA, PA: Press-formability of aluminum clad stainless steel sheet, 12A682
ABRAHAM , ONL: Counter-intuitive quasi-periodic motion in the autonomous vibration of cracked Timoshenko beams, 1A127
ABRAHAM, J: Supercritical droplet vaporization and combustion studies, 11A1294
ABRAHAM, LD: Development and evaluation of a musculoskeletal model of the elbow joint complex, 9A1435
ABRAHAM, ONL: Modeling of the opening and closure of a crack, 5A590
ABRAHAM, P: Effect of multilayer baffles and domes on hydrophone response, 9A357
ABRAHAMSON, N: Magnitude-dependent variance of peak ground acceleration, 2A1241
ABRAHAMSON, S: Effect of rotary arms on corotating disk flow, 1A997
- Uncertainty in calculating vorticity from 2D velocity fields using circulation and least-squares approaches, 5A1117
ABRAMOV, YI: Wear at dust erosion, 6A807
ABRAMOVA, OP: Complete spectrum of normal P-SV-waves in the bilayered transversal-isotropic waveguide, 9A263
ABRAMOVICH, GN: Simplified gasdynamic model of combustion chamber with heat supply for ideal liquid, 6A1202
- Initial section of gas nozzle-burner flame with unsymmetrical boundary conditions, 11A1268
ABRAMOVICH, H: Dynamic stiffness analysis of laminated beams using a first order shear deformation theory, 1A130
- Self-sensing piezolaminated actuator model for shells using a first order shear deformation theory, 3A538
- Adaptive suspension of vehicles using piezoelectric sensors, 7A394
- Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, 10A198
ABRAMOVICI, F: Vertical and near-vertical incidence of P waves in a layered solid, 11A1361
- Numerical seismograms obtained using ω-k integrals, for a point P source in a vertically inhomogeneous anelastic model, 12A1366
ABRAMS, DP: Seismic behavior of structures with flexible diaphragms, 10A1433
ABRAMSON, LW: Slope Stability and Stabilization Methods, 5R17
ABRAROVA, YV: Stability of the steady motions of a rigid body in a centrel field, 12A94
ABRATE, S: Design of multispan composite plates to maximize the fundamental natural frequency, 1A162
- Vibration of non-uniform rods and beams, 2A96
- Finite element analysis of triangular fins attached to a thick wall, 2A1108
- Vibration of point supported triangular plates, 3A132
- Maximizing the fundamental natural frequency of triangular composite plates, 10A879
ABRISHAMI, HH: Analysis of bond stress distributions in pullout specimens, 8A739
ABROSIMOV, V: Macroscopic limit of nuclear friction coefficient, 10A1043
ABU-ABED, A: Design methodology for zero reaction robots, 3A400
ABU-AL-FEILAT, EA: Evaluating the dynamic performance of multimachine power systems with VAR compensation using synchronizing and damping torques, 11A80
ABU-EL-HASSAN, A: Flow of a fluid of grade two between two eccentric rotating spheres, 10A1080
ABU-HASSANEIN, ZS: Electrical resistivity of compacted clays, 10A651
ABU-HEJLEH, AN: Consolidation characteristics of phosphatic clays, 9A663
ABU-JDAYIL, B: Effects of nonuniform electric field on slit flow of an electrorheological fluid, 4A897
- Effects of electrode morphology on the slit flow of an electrorheological fluid, 10A1051
ABU-KHAJEEL, HT: Effect of a hump on the stability of subsonic boundary layers over an airfoil, 11A953
ABU-MULAWEH, HI: Effects of upstream wall heating on mixed convection in separated flows, 3A1057
- Measurements in buoyancy-opposing laminar flow over a vertical forward-facing step, 8A1068
- Convective heat transfer of rotating spheres and spheroids with non-uniform surface temperatures, 8A1101
ABU-SABA, EG: Design of Steel Structures, 11R23
ABUMI, K: Mathematical expression of 3D configuration of the scoliotic spine, 11A1455

 © 1996 American Society of Mechanical Engineers

ABUSAFIEH, A: Longitudinal and transverse moduli and strengths of low angle 3D braided composites, 12A565
ACCORSI, ML: Simplified design method for braced double-skinned structure in lunar application, 2A800
- Power flow in 2D and 3D frame structures, 2A736
- Eigenvalue extraction for large FE models using a new conjugate gradient algorithm, 8A32
- Wave propagation in circular cylindrical shells with periodic axial curvature, 12A216
- Constrained layer damping of tubular truss members, 12A188
ACEVES, SM: Analytical comparison of adsorption and vapor compression air conditioners for electric vehicle applications, 8A1395
ACHARYA, A: Thermodynamic restrictions on constitutive equations for second-deformation-gradient inelastic behavior, 3A2
- Clausius-Duhem inequality and the structure of rate-independent plasticity, 11A455
ACHARYA, AR: Fracture behavior of a high strength medium carbon low alloy steel, 6A650
ACHARYA, M: Interaction of missile nose-tip vortices with a control surface, 10A1202
ACHARYA, S: Influence of wall conduction on mixed convection heat transfer in externally finned pipes, 1A1201
- Laminar-mixed convection heat transfer in externally-finned pipes, 8A1093
- Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, 11A1109
ACHENBACH, JD: Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load, 4A314
- Simple scheme for self-focusing of an array, 9A868
- Roller device to scan for surface-breaking cracks and to determine crack depth by a self-calibrating ultrasonic technique, 10A864
ACHENBACK, JD: Strip element method to analyze wave scattering by cracks in anisotropic laminated plates, 5A177
ACHIWA, F: In-situ test of ground improvement sand piles method by measuring the process of dewatering (Japanese), 10T672
ACHKIRE, Y: Experiment of active control of a cable using a piezoelectric active tendon collocated with a force sensor, 4A372
- Active tendon control of cable-stayed bridges, 12A396
ACHONG, A: Vibrational analysis of mass loaded plates and shallow shells by the receptance method with application to the steelpan, 9A203
ACHTEN, E: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
ACHTZIGER, W: Design for maximal flexibility as a simple computational model of damage, 6A713
- Two approaches for truss topology optimization: A comparison for practical use, 12A833
ACKA, JK: Finding the transfer function of time invariant linear system without computing (sI - A)$^{-1}$, 5T296
ACKERMAN, AE: Dynamic transduction characterization of magnetostrictive actuators, 11A370
ACKERMANN, D: Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, 3A1100
ACORS, S: Dynamic effects of breaking stiffeners in cracked structures, 4A747
ACRIVOS, A: Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics, 9N20
- Apparent wall slip velocity coefficients in concentrated suspensions of noncolloidal particles, 4A895
ACTON, FS: Real Computing Made Real: Preventing Errors in Scientific and Engineering Calculations, 5R2
ACUNA, H: Influence of temperature on the slip velocity of semidilute xanthan gum solutions, 4A881
ADABALA, RR: Flow induced by an asymmetrically placed disk rotating coaxially inside a cylindrical casing, 5A883
ADACHI, H: Evaluation of lifetime risk in reinforced concrete structure (Japanese), 9A915
ADACHI, K: Micro-mechanism of friction drive with ultrasonic wave, 12A894
ADACHI, M: Liquefaction strength and post-liquefaction volumetric change of non-plastic silt (Japanese), 10A656
ADACHI, O: Optimum design of transient heat conduction fields using BE inverse analysis, 3A852
ADACHI, R: Study on strength characteristics of Si_3N_4 coil springs, 11A814
ADACHI, T: Strain localization analysis using a viscoplastic softening model for clay, 1A695
- Examination of the von Neumann paradox for a weak shock wave, 4A281
- Structural stability of the pitchfork bifurcation of thermal convection in a rectangular cavity, 6A1089
- Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970
ADALI, S: Optimization of symmetric laminates for maximum buckling load including the effects of bending-twisting coupling, 3A562
ADALI, S: Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part I: Theory, 3T324
- Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, 4T352
- Maximum principle for the optimal control of a hyperbolic equation in two space dimensions, 6A285
- Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, 11A728
- Design of shear-deformable laminated shells for maximum buckling load under combined loading, 11A720
ADALSTEINSSON, D: Level set approach to a unified model for etching, deposition, and lithography - Part II: 3D simulations, 5A1208
ADAMOVICH, IV: Kinetics of nitric oxide formation behind shock waves, 10A1098
ADAMS JR, JH: Charged-particle telescope experiment on Clementine, 5A739
ADAMS, BR: Modeling effects of soot and turbulence-radiation coupling on radiative transfer in turbulent gaseous combustion, 7A1334
ADAMS, DF: Study of three- and four-point shear testing of unidirectional composite materials, 1A591
- Effect of loading method on compression testing of composite materials, 1A588
- Experimental strain analysis of the iosipescu shear test specimen, 5A489
ADAMS, J: Methods for low-velocity friction compensation: Theory and experimental study, 11A805
ADAMS, LM: Linear and Nonlinear Conjugate Gradient-Related Methods - Proc of AMS-IMS-SIAM Summer Res Conf, Univ of Washington, July 1995, 10N4
ADAMS, MA: Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", 12A1451
ADAMS, MJ: Elastohydrodynamic collisions of solid spheres, 9A1118
ADAMS, NA: Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, 9A1141
- Subharmonic transition to turbulence in a flat-plate boundary layer at Mach number 4.5, 12A1102
ADAMS, RD: Finite-element prediction of modal response of damped layered composite panels, 3A141
- Special Issue: Papers presented at the thirty-third annual conference on adhesion and adhesives, Oxford Brookes Univ, UK on 5 April 1995, 9T1033
ADAMU, A: Minimum cost design of RC frames using the DCOC method - Part I: Columns under uniaxial bending actions, 2A757
- Minimum cost design of RC frames using the DCOC method - Part II: Columns under biaxial bending actions, 2A758
- Application of DCOC to optimum prestressed concrete beam design, 7A946
- Minimum cost design of multispan partially prestressed concrete beams using DCOC, 11A725
ADAN, OCG: Determination of moisture diffusivities in gypsum renders, 7A1356
ADDESSIO, FL: Enhanced cell model with nonlinear elasticity, 8A453
ADDINGTON, GA: Critical states and flow structure on a 65-deg delta wing, 9A1216
ADEBAR, P: General shear design method, 7A953
ADEBIYI, GA: Heat transfer in a high-temperature packed bed thermal energy storage system: Roles of radiation and intraparticle conduction, 8A1216
- Appraisal of 1D analytical models for the packed bed thermal storage systems utilizing sensible heat storage materials, 8A1213
- Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, 12A1271
ADEFRIS, N: Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steels - Part I: Estimation of crack tip parameters, 10A751
- Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steel - Part II: Crack growth behavior and models, 10A752
ADELI, H: Neural dynamics model for structural optimization: Application to plastic design of structures, 1A875
- Neural dynamics model for structural optimization: Theory, 1A874
- Distributed FE analysis on network on workstations: Implementation and applications, 2A22
- Finite element approach to global-local modeling in composite laminate analysis, 2A449
- Distributed FE analysis on network of workstations: Algorithms, 2A21
- Concurrent structural optimization on massively parallel supercomputer, 3A753
- Effect of general sparse matrix algorithm on optimization of space structures, 4T790
- Knowledge engineering, 6A342
ADELMAN, HM: Optimization for minimum sensitivity to uncertain parameters, 12A821
ADELSTEIN, BD: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
ADEY, RA: Simulation and Design of Microsystems and Microstructures - Proc of 1st Int Conf, Southampton, UK, Sept 1995, 8N20
- Acoustic diagnostic analysis using BEs, 6A40
ADGAMOV, RI: High-tech production of aircraft engines, 6A369
ADIB-JAHROMI, HR: Simplified design method for braced double-skinned structure in lunar application, 2A800
- Constrained layer damping of tubular truss members, 12A188
ADIGUZEL, E: Direct optimal control of nonlinear systems via Hamilton's law of varying action, 5A319
ADIN, MA: Repaired RC flat-slab-column subassemblages under lateral loading, 3A781
ADINARAYANA, N: Elastoplastic stress and strain predictions for axisymmetric pressure-vessel bodies under transient thermal loads, 8A780
- Estimation of convective heat transfer coefficients in industrial steam turbines, 10T1265
ADITYA, PK: Moisture diffusion in variously shaped fiber reinforced composites, 7A1296
ADJ, M: Sizing procedure for photovoltaic refrigerating systems using a simple approach of the LLP calculation, 11A1235
ADJERID, S: Modeling and the adaptive solution of reactive vapor infiltration problems, 6A589
ADKINS, FA: Working capability analysis of Stewart platforms, 12A449
- Numerical algorithms for mapping boundaries of manipulator workspaces, 12A445
ADLER, D: Three-dimensional LDA measurements of the flow field inside an axial gas turbine rotor, 9A1246
ADLER, J: Time-dependent laser ignition of a combustible stagnant boundary layer, 6A1193
ADLER, L: Nonlinear distortion of finite-amplitude ultrasonic waves investigated by optical heterodyne interferometry, 5A294
- Ultrasonic wave scattering from rough, imperfect interfaces - Part I: Stochastic interface models, 8A182
- Ultrasonic wave scattering from rough, imperfect interfaces - Part II: Incoherent and coherent scattered fields, 8A183
ADLER, PM: Surface tension models with different viscosities, 4A1310
ADLEY, MD: Impact of thin-walled projectiles with concrete targets, 1A216
- Dilute estimates of inelastic deformation in metal-matrix composites, 2A433
- Microplane model for concrete - il: Data delocalization and verification, 8A444
ADLURI, I: Magnetohydrodynamic braking, 5A981
ADLURI, SMR: Development of column curve for steel angles, 8A519
- Flexural buckling of steel angles: Experimental investigation, 8A520
ADOLF, D: Calculation of stresses in crosslinking polymers, 8A471
ADOLFSSON, C: Cutting force model for multi-toothed cutting process and force measuring equipment for face milling, 2A539
ADOMEIT, G: Application of front tracking techniques to the turbulent combustion processes in a single stroke device, 12A1322
ADOMIAN, G: Isentropic flow of an inviscid gas, 2A900
- Nonlinear random vibration, 12A131
- Burridge-Knopoff model, 12T1363
ADONGO OCHIER, J: Approach to automatic generation of dynamic equations of elastic joint manipulators in symbolic language, 3A398
ADRIAN, RJ: Effect of Reynolds number on isotropic turbulent dispersion, 5A961
- Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer, 7A1195
- Variation of temperature and velocity fluctuations in turbulent thermal convection over horizontal surfaces, 11A1104
ADULLA, C: Effect of prior quasi-static loading on the initiation and growth of dynamic adiabatic shear bands, 3A1176
- Comparison of 1D and 3D simulations of the twisting of a thermoviscoplastic tube, 8A1230
ADVANI, SG: Role of micro-convection due to non-affine motion of particles in a mono-disperse suspension, 1A1247
- Numerical and analytical study to estimate the effect of two length scales upon the permeability of a fibrous porous medium, 4A1296
- Modeling and simulation of resin transfer molding: Gate control, venting, and dry spot prediction, 6A584
- Fast numerical method for isothermal resin transfer mold filling, 10A593
- Transient rheological behavior of a long discontinuous fiber-melt system, 12A1013
- Influence of void shape, void volume, and matrix anisotropy on effective thermal conductivity of a three-phase composite, 12A1241
ADVANI, SH: Constitutive relationship for large deformation FE modeling of brain tissue, 5A1372
AERTS, DJ: Ash deposition in a wood-fired gas turbine, 5A1029
AERTS, P: Mechanical properties of the human heel pad: A Paradox resolved, 2A1296
AESCHLIMAN, DP: Shear-stress-sensitive liquid crystals for hypersonic boundary-layer transition detection, 5A929
AFACAN, A: Modeling the flow of power law fluids in a packed bed using a volume-averaged equation of motion, 11A1322
AFAGH, FF: Vibration of rods with a concentrated mass in the presence of non-conservative forces, 3A125
- Boundary integral transformation of body-force volume integral in BEM for 2D anisotropic elasticity, 8A63
AFAGHANI, JED: Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, 12A923
AFAGHI-KHATIBI, A: Effective crack growth and residual strength of composite laminates with a sharp notch, 8A643
- Effective crack growth model for residual strength evaluation of composite laminates with circular holes, 8A644
- Notched strength and effective crack growth in woven fabric composite laminates with circular holes, 10A800
AFFOLTER, P: Optimizing the panel area of a photovoltaic system in relation to the static inverter: Practical results, 1A1430
AFGAN, NH: New instrument for radiation heat flux measurement: Analysis and parameter selection, 2A1138
- Knowledge-based expert system for fouling assessment of industrial heat exchangers, 6A1144
AFOLABI, D: Elimination of periodic coefficients from the equations of motion of asymmetric shafts in anisotropic bearings, 1A600
- Role of eigenvectors in aeroelastic analysis, 12A266
AFONIN, VL: Control over technological machines based on closed mechanisms of relative manipulation, 9A1007
AFTOSMIS, M: Behavior of linear reconstruction techniques on unstructured meshes, 4A58
AFZAL, N: Turbulent boundary layer on a moving continuous plate, 8A981
AFZAL, SM: Corrosion of glass-lined water heaters in sea coastal environment, 7A791
AGAIBY, SW: Design of reinforced fill systems to support footings overlying cavities, 12A657
AGANOVIC, Z: Filtering for linear stochastic systems with small measurement noise, 5A309
AGARWAL, BD: Experimental study of crack-induced dynamic damage growth in fiber composites, 6A663
AGARWAL, G: Performance evaluation of porous radiant gas burners, 1A1372
AGARWAL, RP: Advances in differential and integral inequalities, 1A62
AGARWALA, VK: Micro-stress distribution within polycrystalline aggregate, 8A463
AGASSANT, JF: Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302, 5N27
- Experimental study and modeling of oscillating flow of high density polyethylenes, 11A851
- Viscoelastic simulation of PET stretch-blow molding process, 12A511
AGAZZANI, A: Combined helium and combustion gas turbine plant exploiting liquid hydrogen (LH_2) physical exergy, 10A1392
AGBABIAN, MS: Behavior of beam-column connections under axial column tension, 10A890
AGBOSSOU, A: Effects of interphase and impact strain rates on tensile off-axis behavior of unidirectional glass fiber composite: Experimental results, 4A493
AGER III, JW: Quantitative stress mapping in alumina composites by optical fluorescence imaging, 6A465
AGERSKOV, H: Analytical model for fatigue life prediction based on fracture mechanics and crack closure, 11A639
AGGARWAL, SK: Review of droplet dynamics and vaporization modeling for engineering calculations, 5A920
- Numerical simulation of particle transport in planar shear layers, 6A939
- Numerical study of droplet-vortex interactions in an evaporating spray, 11A1182
AGGOUR, MS: Dynamic properties of cohesive soils treated with lime, 10A658
AGISHEV, GG: Method for calculating an aerostatic support with a metallic membrane, 10A317
AGLAN, H: Innovative approach to fatigue disbond propagation in adhesive joints, 9A827
AGNANTIARIS, JP: Studies on dual reciprocity BEM for elastodynamic analysis, 7A246
AGNEW, B: Effect of ambient temperature on the surface area of components of an air-cooled lithium bromide-water absorption unit, 7A1273

- Impact of ambient temperature on lithium-bromide-water absorption machine performance, 10A1406
- Thermodynamic analysis of combined diesel engine and absorption refrigeration unit: Supercharged engine, 10A1241
- Thermodynamic analysis of combined diesel engine and absorption unit: Turbocharged engine with intercooling, 12A1210

AGNEW, D: Accuracy of seismic estimates of dynamic strains: An evaluation using strainmeter and seismometer data from Pinon Flat Observatory, California, 11A1382

AGNEW, DC: Testing a model of earthquake nucleation, 6A1262

AGNIHOTRI, NA: Review of analysis of tube sheets, 10A607

AGOSTA-GREENMAN, RM: Computational investigation of tangential slot blowing on a generic chined forebody, 1A1112

AGRAWAL, AK: Sliding mode control for nonlinear and hysteretic structures, 6A730
- Sliding mode control for seismically excited linear structures, 6A731

AGRAWAL, BN: Robust closed-loop control design for spacecraft slew maneuver using thrusters, 4A379

AGRAWAL, DP: Influence of co-swirl on the flow development of co-axial jets in a dump confinement, 7A1108
- Flow characteristics in a large area ratio curved diffuser, 8A1031

AGRAWAL, OP: Modeling of stochastic dynamic systems using Hamilton's law of varying action, 10A130

AGRAWAL, SK: Efficient simulation of tree-structured, free-floating multibody systems using momentum integrals, 7A88
- Free-floating closed-chain planar robots: Kinematics and path planning, 7A433
- Modeling and simulation of assembly in a free-floating work environment by a free-floating robot, 8A357

AGRAWAL, VP: Computer aided detection of isomorphism among kinematic chains and mechanisms using the concept of modified distance, 9A1012

AGREDANO, J: Field performance of lead-acid batteries in photovoltaic rural electrification kits, 3A1383

AGRELL, J: Experimental vertification of interference-free testing concept for vehicles with propulsive jets, 12A865

AGUADO, A: Safety control of prestressing in nuclear plants, 3A1244

AGUI, JH: Wall-vorticity flux dynamics in a 2D turbulent boundary layer, 8A982

AGUIRRE, LA: Improved structure selection for nonlinear models based on term clustering, 2T249
- Smoothing data with local instabilities for the identification of chaotic systems, 8A269

AHDAD, F: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766

AHLSTRAND, R: Descriptive characteristics of different types of test for irradiation embrittlement, 3A1361

AHMAD, B: Diffraction from an absorbing half-plane due to finite cylindrical source, 11T256
- Diffraction by an acoustically penetrable strip, 11A255

AHMAD, HY: Measurements of stress intensity factors of an interface crack under mixed mode loading, 11A698

AHMAD, J: Helicopter rotor blade computation in unsteady flows using moving overset grids, 7A1183

AHMAD, MF: Nonlinear thermo-viscoelastic analysis of interlaminar stresses in laminated composites, 9A1289

AHMAD, RA: Steady-state numerical solution of the Navier-Stokes and energy equations around a horizontal cylindor at moderate Reynolds numbers from 100 to 500, 10A1246

AHMAD, S: Design provisions for stair slabs in the Bangladesh buiiding code, 8A743
- Active isolation of machine foundations by in-filled trench barriors, 9A239

AHMAD, SH: Effectiveness of shear reinforcement for normal and high-strength concrete beams, 9A912

AHMAD, Z: Corrosion and corrosion fatigue resistance of a modified aluminum-magnesium alloy in Arabian Gulf seawater environment, 2A590
- Corrosion of glass-lined water heaters in sea coastal environment, 7A791

AHMADI, G: Numerical simulation of granular Couette flows between two rough parallel plates, 3A929
- Fibrous particle decomposition in a turbulent channel flow: An experimental study, 4A1285
- Particle detachment from rough surfaces in turbulent flows, 5A923
- Satellite active and passive vibration control during liftoff, 12A415
- Gravity granular flows of slightly frictional particles down an inclined bumpy chute, 12A1002

AHMADIAN, H: Generic element matrices suitable for FE model updating, 5A26

AHMADIAN, M: Modeling and performance of an experimental active vibration isolator, 5A168

AHMADIAN, M: Vehicle glow measurements on space transportation system flight 62, 10A1114

AHMED, AKW: Simulation of displacement sensitive nonlinear dampers via integral formulation of damping force characterization, 4A221
- Properties of an interconnected hydro-pneumatic suspension system, 6A162

AHMED, AZ: Transient development of axisymmetric surface waves, 1A225

AHMED, GN: Computational heat and mass transport in concrete walls exposed to fire, 8A1243

AHMED, GR: Analytical method for forced convection from flat plates, circular cylinders, and spheres, 1A1164

AHMED, I: Laboratory studies of a round, negatively buoyant jet discharged horizontally into a rotating homogeneous fluid, 8A967
- Design provisions for stair slabs in the Bangladesh building code, 8A743

AHMED, MHM: Computer-aided design of acoustic horns for ultrasonic machining using FE analysis, 7A33

AHMED, MZ: Torsion constant for matrix analysis of structures including warping effect, 4A785

AHMED, R: Experimental observation and numerical prediction of planar entry flow and die swell for molten polyethylenes, 2A682

AHMED, S: Propagation of elastic waves in equiaxed stainless-steel polycrystals with aligned [001] axes, 9A262

AHMED, SA: Near-field study of a turbulent freejet and velocity bias effects, 6A969

AHMED, SM: Influence of gravity and an initial stress on the propagation of waves in an orthotropic elastic medium, 11A170

AHMED, W: Acoustic emission monitoring of wear in hacksaw blades, 7A887

AHMEDA, M: Calculation of fully developed flows of complex fluids in pipes of arbitrary shape, using a mapped circular domain, 3A951

AHN, KG: Hybrid-type active vibration isolation system using neural networks, 11A155

AHN, SC: Bounds in algebraic Riccati and Lyapunov equations: A survey and some new results, 12T346

AHN, TAEHOON: Analysis of the separatrix map in Hamiltonian systems, 6A97

AHN, WJ: Precision alignment technique for parts having thin features using measurement feedback iterative method in CAD-CAI environment, 4A417

AHSAN, Q: Wind and solar generating units: Potential candidates for a generation mix of an isolated area, 4A1358

AHUJA, JK: Simulation of shock-induced combustion past blunt projectiles using shock-fitting technique, 11A1289

AI , XING: Friction and wear behavior of Al_2O_3-TiB_2 composite against cemented carbide in various atmospheres at elevated temperature, 12A885

AI, CHI-FONG: Tribological characteristics of titanium nitride coatings - Part I: Coating thickness effects, 12A939

AI, M: Explicit geometrically-nonlinear discretization of the 3D tetrahedral element, 1A12

AI, XING: Influence of flexible foundation on isolator wave effects, 6A174

AIBA, K: Nonlinearity-coupled receptivity process generating a Tollmien-Schlichting wave behind a backward-facing step, 8A1040

AIDA, S: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741

AIDA, T: Vibration control of plates by plate-type dynamic vibration absorbers, 5A701

AIDANPAA, J-O: Experimental and numerical studies of shear layers in granular shear cell, 8A528

AIDUN, CK: Direct method for computation of simple bifurcations, 2T75
- Extension of the volume-of-fluid method for analysis of free surface viscous flow in an ideal gas, 5A903
- Stability of two-layer stratified flow in inclined channels: Applications to air entrainment in coating systems, 10A1169

AIDUN, JB: Enhanced cell model with nonlinear elasticity, 8A453

AIFANTIS, EC: Pattern formation in plasticity, 4A584
- Longitudinal vibrations of a beam: A gradient elasticity approach, 7T220

AIKAWA, Y: Extension of the adaptive BE scheme for the problem with mixed boundary conditions, 8A59

AILON , A: Stable observer-based trajectory controller for asymptotic model matching of a rigid robot, 6T331

AILON, A: Estimates of flexible-joint robot model response times and some control applications, 2A313

AIM, RB: Surface water pretreatment using floating media filter, 6T1303

AINSLIE, MA: Energy-conserving reflection and transmission coefficients for a solid-solid boundary, 3A190
- Reflection and transmission coefficients for a layered fluid sediment overlying a uniform solid substrate, 7A342

AINSWORTH, RA: Constraint-based failure assessment diagram for fracture assessment, 1T789
- Constraint in the failure assessment diagram approach for fracture assessment, 5A667

AINSWORTH, RW: Development of fast response aerodynamic probes for flow measurements in turbomachinery, 5A1076

AIT-KACI, A: Equilibres liquide-vapeur isothermes de melanges binaires de la piperidine et de la N-methyl piperidine avec certains ethers (French), 8A1061

AIT-KADI, A: Numerical simulation of viscoelastic flows through a planar contraction, 8A405

AITCHISON, I: Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, 1A1416

AITCHISON, JM: Solution of constrained nonlinear equations in modeling the release of liquified gases, 11A1435

AIZIKOVICH, SM: Asymptotic analysis of the surface settlement shape for transversely inhomogeneous half-space at a circular punch indentation, 5A404
- Asymptotic solution of the problem of the interaction of a plate with a foundation inhomogeneous in depth, 7A638

AJOVALASIT, A: Towards RGB photoelasticity: Full-field automated photoelasticity in white light, 2A693
- Determination of nonuniform residual stresses using the ring-core method, 10A555

AKAI, T: Three-dimensional transient thermal stress analysis of a nonhomogeneous hollow circular cylinder due to a moving heat source in the axial direction, 3A1173
- Transient heat conduction and thermal stress problems of a nonhomogeneous plate with temperature-dependent material properties, 7A1243

AKAISHI, M: Residual strength characteristics of soft rocks with a discontinuous plane (Japanese), 7A715

AKAKURA, Y: Evaluation of lifetime risk in reinforced concrete structure (Japanese), 9A915

AKAMATSU, T: Nonlinear oscillations of a cluster of bubbles in a sound field: Bifurcation structure, 1A1039

AKAMATSU, Y: Surface characterization of rolling bearing (Japanese), 5T835

AKAY, A: Dynamic response of a revolute joint with clearance, 4A867

AKAY, M: Estimation of fatigue life for a carbon fiber-poly ether ether ketone hip joint prosthesis, 2A1314
- Fracture toughness and impact behavior of glass-fiber-reinforced polyamide 6,6 injection moldings, 5A647

AKAZAWA, T: Pseudo-dynamic testing using conventional testing devices, 3A1340
- Strain-hardening behavior of shear panels made of low-yield steel - II: Model, 6A739

AKBAROV, CD: Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian), 12R16

AKBAROV, SD: Determination of normalized nonlinear mechanical properties of composite materials with perodically curved layers, 1A528

AKBARZADEH, A: Heat pipe-based cooling systems for photovoltaic cells under concentrated solar radiation, 3A1153

AKCAHUSEYIN, E: Analytical solution to solute transport in continuous arterio-venous hemodiafiltration, 6A1344

AKCAY, H: Subspace based sytsem identification with periodic excitation signals, 5T308

AKERBERG, PM: Natural net-based monitoring of steel beams, 1A864

AKERS, SA: Microplane model for concrete - II: Data delocalization and verification, 8A444

AKESSON, BA: Routine FE determination of stress intensity factors using a Muller-Breslau influence function technique, 3A682

AKHATOV, IS: Nonlinear dynamics of coupled chains of particles, 4A165

AKHMEDOV, NK: Axisymmetric problem of the theory of elasticity for a non-uniform plate of variable thickness, 4A550

AKHMETSHIN, IK: Dynamics of an unbalanced rotor with dry friction in the bearing, 10A228

AKHMETZYANOV, AM: Commercial hazardous liquid waste disposers using thermojet afterburners, 6A1300

AKHRAS, G: Vibration and stability analyses of thick anisotropic composite plates by finite strip method, 8A120

AKHTARUZZAMAN, AA: Prestressed high-strength concrete beams under torsion, 1A894

AKHUNDOV, MB: Nonlinear dynamics of nonelastic destruction of damaged lamellar systems (Russian), 7A577

AKI, KEIITI: IUTAM-IASPEI Symposium on Mechanical Problems in Geodynamics, 7A1367
- Northridge, California earthquake of January 17, 1994, 11A1346
- Mechanics problems in Geodynamics - Part 2, 12A1357

AKIBA, H: Direct analysis method for probabilistic fracture mechanics, 9A789

AKIBA, M: Thermodynamic analysis of new combination of supercharged boiler cycle and heat recovery cycle for power generation, 10A1401

AKID, R: Crack interaction, coalescence, and mixed-mode fracture mechanics, 8A670
- Crack interaction, coalescence and mixed-mode fracture mechanics, 10A814
- Further observations of early fatigue crack development, 11A644

AKIMOTO, K: Numerical solution of water quality equation for rivers (Japanese), 3A887

AKIN, AE: Discrete element response of beams with traveling mass, 12A587

AKINCI, A: Measurements of intrinsic and scattering seismic attenuation in the crust, 3A1310

AKINIWA, Y: J-integral approach to mode III fatigue crack propagation in steel under torsional loading, 11A626

AKINKUOTU, AF: Motorized spindle vibration, 12A206

AKITA, T: Experimental study of the flow in a helical circular tube, 1A1059

AKIYAMA, J: First- and second-order flux difference splitting schemes for dam-break problem, 6A890

AKIYAMA, K: Centrifugal model test for reducing the earth pressure on the rigid culvert (Japanese), 7A710

AKIYAMA, M: Proc Japan-Central Europe Joint Workshop on Advanced Computing in Engineering, 3N50
- Numerical analysis of developing turbulent structure in a trapezoidal open channel flow by using Reynolds stress model (Japanese), 6A957

AKIYAMA, N: Automatic detection of cracks on ceramic Al_2O_3 using diffusion of laser light, 3A738
- Development of scanning detection system for cracks on Al_2O_3 ceramics (Japanese), 5A618
- Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), 7A763
- Study for crack detection technique on black color ceramics using FID, 9A876
- Study for crack detecting technique on ferrite ceramics by scanning detecting FID (Japanese), 11A714
- Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706

AKIYAMA, R: Development of cryosorption pump for neutral beam injector, 11A1051

AKIYAMA, S: Formulation of impulsive response of an elastic layered half space using the eigenmodes given by the characteristic equation (Japanese), 1A212

AKIYAMA, T: Special transport service for the elderly and the disabled (Japanese), 1A1470
- New method for estimating residual stresses in pipe made by surfacing weld, 5A459
- Development of multi-purpose ductile-regime machining system for ceramics and glasses (Japanese), 9A738

AKIYOSHI, T: Nonlinear seismic response analysis method for saturated soil-structure system with absorbing boundary, 11A1402

AKJOUJ, A: Elastic vibrations of planar and deterministic rough surfaces, 9A358

AKKAS, N: Chaos in planar oscillations of a Toda particle, 10A97

AKKOUCHI, M: Study of a perturbed boundary optimal control system, 6A292

AKOZ, AY: Numerical approach to define the rotational stiffness of a prefabricated connection and experimental study, 2A784
- Mixed FE solution of circular beam on elastic foundation, 12A585

AKPAN, EP: Stability of large scale systems and the method of cone-valued Lyapunov functions, 9T144

AKPAN, UO: Nonstationary random response of a vehicle with a varying structure, 2A284
- Stochastic response of a flexible mobile robotic manipulator structure, 9A455

AKRICH, R: Chemical structure of atmospheric pressure premixed n-decane and kerosene flames, 3A1214

AKSEL, N: Influence of dewetting in filled elastomers on the changes of their mechanical properties, 9A502

AKSEL, T: Active-control and forced-vibration studies on highway bridge, 1A172

AKSELVOLL, K: Efficient method for temporal integration of the Navier-Stokes equations in confined axisymmetric geometries, 11A904
- Large-eddy simulation of turbulent confined coannular jets, 11A990

AKSOY, M: Evaluation of the wear behavior of dual-phase low carbon steel, 12A903

AKSTETER, JW: Parameter identification and modeling of longitudinal aerodynamics, 1A264

AKSU, T: Finite element formulation for shells of negative Gaussian curvature, 2A481
- Finite element formulation for column-supported hyperboloid cooling towers, 9A974

AKTAN, AE: Active-control and forced-vibration studies on highway bridge, 1A172

AKTAS, B: Two-phase level tracking method, 11A1424

AKULENKO, LD: Analysis of a system with complex excitation of parametric oscillations, 5A87

- Periodic motions of autonomous systems in the vicinity of a stable integral manifold, 6A88
- Control of the motions of a membrane by means of boundary forces, 8A295
- Numerical-analytical method for studying natural vibrations of nonuniform rods, 10A153

AKULOVA, ON: Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209

AKUTAGAWA, S-I: Critical strain of non-homogeneous rock masses (Japanese), 10A691

AKUTO, T: Design of longitudinal control system for brushless motor electric vehicle using VSTC control theory, 6A326

AKUTSU, Y: Radial differential mobility analyzer, 2A1209

- Lamb wave vibration sensor with a cellulose membrane diaphragm, 11A139

AKYLAS, TR: Finite-amplitude effects on steady lee-wave patterns in subcritical stratified flow over topography, 8A204

AKYURT, M: Modeling of waste heat recovery by looped water-in-steel heat pipes, 1A1284
- Experimental investigation of deformation and jetting during impact spot welding, 2A834
- Impact deformation of polymeric projectiles, 6A188

AL ABDULWAHAB, AA: Active vibration control of a flexible rotor, 4A142

AL TAWEEL, AM: Thermodynamic simulation and evaluation of a steam CHP plant using ASPEN plus, 6A1062

AL-ABED, MR: Debonding effect in saddles: Comparison of the performance of Flugge's and Sanders' shell theories, 1A612
- Behavior of circular cylindrical shells due to local debonding, 8A490
- Effect of liquid filling in saddle-supported pipelines, 12A872

AL-ADEMI, AAF: Dynamics and control of isolated wind-diesel power systems, 3A1379

AL-AMOUDI, OSB: Geotechnical behavior of saline sabkha soils, 2A511

AL-ANSARY, MD: Determination of stretch-bendability of sheet-metals, 8A551
- Fracture analysis for pipes containing a finite-length axial part-through crack, 12A744

AL-ASALY, M: Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, 3A774

AL-AYYOUB, AE: Pipelined algorithm for Newton's divided difference interpolation, 4A88

AL-BEDOOR, BO: Vibrational motion of an elastic beam with prismatic and revolute joints, 7A147
- Approximate analytical solution of beam vibrations during axial motion, 10A143
- Finite element dynamic modeling of a translating and rotating flexible link, 12A147

AL-BERMANI, FA: Simplified model for buckling mechanism in lattice structures, 1A645

AL-BERMANI, FGA: Dynamic response of flexibly jointed frames, 4A186
- Free vibration of cantilevered arbitrary triangular Mindlin plates, 7A158
- Return mapping algorithm for plane stress and degenerated shell plasticity, 8A37
- Nonlinear elastoplastic analysis of spatial structures under dynamic loading using kinematic hardening models, 12A523

AL-DUAIJ, J: Analysis of simply supported shear-flexible transversely isotropic (ATJ graphite) moderately-deep cylindrical panels, 5A506
- Dynamic response of hinged-hinged single span bridges with uneven deck, 8A144

AL-FAHED, S: Effect of tube-tape clearance on heat transfer for fully-developed turbulent flow in a horizontal isothermal tube, 11A1110

AL-FAHED, SF: Near field characteristics of circular jets at low Reynolds numbers, 11A972

AL-GARNI, AZ: Near-field study of a turbulent freejet and velocity bias effects, 6A969
- Aerospace plane cooling with H_2, CH_4, He, Ne, N_2, and Ar, 6A1139
- Active cooling of a hypersonic plane using hydrogen, methane, oxygen and fluorine, 8A1606

AL-HADDAD, AA: Performance of a thermodynamic water pump, 7A1203

AL-HADDAD, MS: Curvature ductility of reinforced concrete beams under low and high strain rates, 3A776

AL-HASSANI, STS: Experimental investigation of deformation and jetting during impact spot welding, 2A834
- Impact deformation of polymeric projectiles, 6A188

AL-HOMOUD, AS: Probabilistic seismic hazard zonation and dynamic site periods mapping for major cities in Jordan, 7A1371

AL-HUNAIDI, MO: Control of traffic-induced vibration in buildings using vehicle suspension systems, 12A198

AL-HUSSAINI, TM: Active isolation of machine foundations by in-filled trench barriers, 9A239

AL-KHALEEFI, AL: Feasibility of active and passive pulse control for flexible structures, 1A409

AL-KHALIDY, N: Fixed grid numerical technique for the Stefan problems, 9A1305

AL-KHALIL, MFS: Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, 4A494

AL-MANA, AI: Influence of some parameters relevant to the Arabian Gulf environment on corrosion of reinforcing steel in concrete, 2A594

AL-NAJEM, N: Steady state solutions of buoyancy-assisted internal flows using a BE-False Implicit Transient Scheme, 3A49

AL-NAJEM, NM: Calculation of 3D BE drag components using wind tunnel data, 11A51

AL-NIMR, MA: Analytical solution for transient laminar fully developed free convection in open-ended vertical concentric porous annuli, 3T1069
- Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, 4A1171
- Temperature and soot concentration in a high soot density flame, 7A1256

AL-OBAID, YF: Automated analysis of topside platform hatch covers subject to drill collar impact, 9A287

AL-QASEM, MM: Model studies on bored piles in stiff expansive clay, 4A614

AL-SAADI, J: Performance of 3D compressible Navier-Stokes codes at low mach numbers, 12A1078

AL-SALAM, H: Effect of turbulence on heat transfer in stagnation flow, 10A1178

AL-SALAYMEH, AS: Heat transfer enhancement in electronic modules using ribs and "film-cooling-like" techniques, 11A1221

AL-SALEM, AA: Sheet flow and suspension of sand in oscillatory boundary layers, 2T853

AL-SALKA, MA: Composite action between steel lintels and masonry walls, 3A811

AL-SALLOUM, YA: Optimality and safety of rigidly- and flexibly-jointed steel frames, 1A917
- Pseudo-fully stressed design approach for optimum design of steel frames, 3A764
- Optimum proportions of built-up wide-flange sections, 7A956

AL-SANAD, H: Control of nonlinear vibrations of foundations built in sandy soil, 6A727

AL-SHA'ER, BJ: Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, 4A1171
- Mixed convection from a vertical cylinder embedded in a porous medium: Non-Darcy model, 7A1229

AL-SHUKRI, HJ: Site effect observations from broadband arrays, 6A1269

AL-SULAIMANI, GJ: Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505
- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573

AL-WALI, AA: Explicit Alternating Direction methods and their applications to problems in fluid mechanics, 12A1057

AL-ZUBI, N: Structural lightweight concrete: Recent research, 1A895

ALAG, SS: Effective mixed annealing-heuristic algorithm for problems in mechanical design, 5A857

ALAGAO, FB: Simulation of the transient behavior of a closed-cycle salt-gradient solar pond, 9A1423

ALAHYARI, A: Dynamics of experimentally simulated microbursts, 4A985

ALAHYARI, AA: Development and structure of a gravity current head, 10A1074

ALAM, MJ: Reliability analysis and full-scale testing of transmission tower, 8A769

ALAM, MK: Measuring and modeling the thermophysical properties of porous alpha-two titanium aluminide compacts, 1A1158
- Modeling of thermal stresses and thermal cracking during heating of large ingots, 11A1244

ALAM, SS: Experimental study of heat transfer to boiling binaries in a reboiler tube, 7A1233

ALAMGIR, M: Negative skin friction on rigid and deformable piles, 8A539
- Deformation analysis of soft ground reinforced by columnar inclusions, 11A571

ALAPPAT, BJ: Studies on a recirculating fluidized-bed incinerator-cold model, 10A1420
- Solids circulation in a recirculating fluidized bed under sticky conditions, 11A1330

ALART, P: Frictional contact element for strongly curved contact problems, 5A412
- Numerical modeling and simulation of frictional contact using a generalized Coulomb law, 9A993

ALATTASS, M: Morphological study of vibration signals: Identification of spur and helical gear faults (French), 11A658

ALAUDDIN, M: Plastics and their machining: A review, 6A574
- End-milling machinability of Inconel 718, 7A738
- Computer-aided analysis of a surface-roughness model for end milling, 7A736

ALAVIE, AT: Rare earth doped fiber for structural damage assessment, 2A710

ALAWI, H: Effect of soft tap water chemistry on fatigue crack growth of steel, 7A784

ALBERTINI, F: Recurrent neural networks coupled with linear systems: Observability in continuous and discrete time, 10A390

ALBERTS, TE: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
- Dissipative controllers for nonlinear multibody flexible space structures, 3A365
- Design and analysis of fiber enhanced viscoelastic damping polymers, 5A163
- Multivariable transfer functions for a slewing piezoelectric laminate beam, 5A544

ALBERTSEN, H: Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, 1A816
- Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, 1A815

ALBERTSON, J: Random sweeping decorrelation hypothesis stratified turbulent flows, 2A987

ALBERTSON, JD: Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, 12A1415

ALBIOL, T: Analyse des interactions fluide-paroi dans un systeme ouvert a partir de la connaissance de la distribution des temps de sejour: Application aux depots d'aerosols par thermophorese (French), 9A325

ALBRECHT, P: Fatigue-strength of prestressed composite steel-concrete beams, 6A757
- Strengthening of composite steel-concrete bridges, 6A770

ALBRIGHT, LD: Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part I: Flow field characteristics, 12A1053
- Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part II: Mass transfer processes, 12A1298

ALBRIGHT, SJ: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373

ALCALA, JR: Real time frequency domain fiberoptic temperature sensor using ruby crystals, 6A1367

ALCARAZ, JL: Analysis of the extrusion of bimetallic tubes by numerical simulation, 4A631
- Analytical approach to the stress field in the extrusion of bimetallic tubes, 9A695

ALCHAAR, S: Natural convection heat transfer in a rectangular enclosure with a transverse magnetic field, 3A1042

ALCHEIKH, W: Ultrasonic NDE of the matrix structure and the graphite shape in cast iron, 7A892

ALCOCK, J: Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, 12A877
- Comparative wear mapping techniques - II: Surface roughness and fractal dimension mapping of tungsten carbide-silicon carbide, 12A927

ALCOCK, R: Device for the *in situ* determination of soil deformation modulus, 9A673

ALCORN, CW: X-31 aircraft: Advances in aircraft agility and performance, 11A1031

ALDIS, CA: Development of the trilateral flash cycle system - Part 3: The design of high-efficiency two-phase screw expanders, 8A1032

ALDO, AC: Dense gas flow in minimum length nozzles, 1A1062

ALDOSS, TK: Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, 4A1171
- Mixed convection from a vertical cylinder embedded in a porous medium: Non-Darcy model, 7A1229

ALDREDGE, RC: Premixed flame propagation in a high-intensity, large-scale vortical flow, 12A1302

ALDRIDGE, DF: Perturbation theory for travel times, 1A349

ALEKSANDROV, SE: Velocity field near its discontinuity in an arbitrary flow of an ideal rigid-plastic material, 10T536

ALEKSANDROV, VM: Slip line at the end of a punch impressed into a half-plane, 2A376
- Thermoforce interaction of deformable coatings with allowance for wear, 9A992

ALEKSEEV, AK: Indirect determination of heat flux to a lander heat protection system, 1A1276

ALEKSEEV, AS: Scattering of plane waves in inhomogeneous half-space, 2A162
- Local optimization technique for the solution of the problem of nonlinear seismic tomography, 8A1347

ALEKSEEVA, IE: Distinguishing features of phase transformation in the surface layer of hardened steel with ($\alpha + \gamma$)-two-phase structure during plastoelastic loading at different rates, 9A983

ALEKSIEJUK, M: Generation and detection of acoustic waves in microwave cavities, 1A361

ALEKSIN, VA: Three-dimensional boundary layers on complex-shaped bodies at angles of attack, 1A1049

ALEM, D: Experimental study of a normal shock-homogeneous turbulence interaction, 10A1181

ALESSANDRI, C: Contact Mechanics II - Computational Techniques, 2N24

ALESSANDRINI, B: Motion simulation of a cylinder at the surface of a viscous fluid, 8A1003

ALESSANDRINI, G: Stability in crack determination from electrostatic measurements at the boundary: A numerical investigation, 3A716

ALEXANDER, CG: Deflagration to detonation transition fueled by dust layers, 5A213

ALEXANDER, MG: Properties of paste-rock interfaces and their influence on composite behavior, 4A480

ALEXANDER, NB: Postural control in young and elderly adults when stance is perturbed: Dynamics, 6A1328

ALEXANDER, W: CRC Practical Handbook of Materials Selection, 7N31

ALEXANDROU, D: Full-field optimum detection in an uncertain, anisotropic random wave scattering environment, 1A324
- Bayesian modeling of acoustic signals for seafloor identification, 6A257

ALEXANDROV, VM: Stress-strain state of a three-layered cantilever panel with honeycomb filler, 3A502
- Contact problems related to tightness of deformable joints, 7A505

ALEXIADES, V: Super-time-stepping acceleration of explicit schemes for parabolic problems, 7A1251

ALEXIOU, A: Soot formation in shock-tube pyrolysis of toluene, toluene-methanol, toluene-ethanol, and toluene-oxygen mixtures, 7A1323

ALFANO, G: Automatic analysis of multicell thin-walled sections, 9A950

ALFANO, S: Spaceflight Mechanics 1995, Part I and II - Advances in the Astronautical Sciences, Vol 89, 3N9

ALFREDSSON, KS: Use of energy flow concept in vibration design, 11A159

ALFRIEND, KT: Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II, 6N7
- Dynamics and stability of a freely processing spacecraft containing a nutation damper, 8A235

ALGERMISSEN, J: Matrix dissipation for central difference schemes with combustion, 3A1239
- Numerical simulation of mixing for turbulent slot injection, 6A970

ALGHAMDI, SA: HLXVIB: A computer code for free vibration analysis of circular helicoidal bars, 10A148

ALHAJI, JN: Role of chromium or cobalt alloying of plain steels (low residual) on their corrosion behavior in hydrochloric acids, 2A596
- Effect of soft tap water chemistry on fatigue crack growth of steel, 7A784

ALHORN, DC: Rotating unbalanced-mass devices for scanning: Proof-of-concept test results, 1T276

ALI AIBAN, S: Centrifugal modeling of bearing capacity of shallow foundations on sands, 2A520

ALI HAMDI, M: A B-spline FE for the dynamic analysis of sandwich shells of revolution, 11A119

ALI MOHAMMAD, H: Increase in life of CBN wheel for gear grinding, 9T714

ALI, A: Boundary element-finite element coupled eigenanalysis of fluid-structure systems, 10A320

ALI, AHH: Cooling of water flowing through a night sky radiator, 3A1135

ALI, F: Semi-implicit donor cell differencing and the hyperbolic conservation laws having source terms, 12A49

ALI, FA: Influence of joint detail on the flexural-torsional interaction of thin-walled structures, 5A12

ALI, IA: Microcomputer-based control system for efficient energy utilization and water consumption in greenhouses, 11A1232

ALI, MA: Finite-difference analysis of the stability of flow in a curved channel wide-gap problem, 1A45
- Effect of a radial temperature gradient on the stability of Couette flow: Non-axisymmetric modes analysis, 2A1103

ALI, ME: Thermal boundary layer on a power-law stretched surface with suction or injection, 1A1171

ALI, N: Mechanistic evaluation of fly ash asphalt concrete mixtures, 7A546

ALI, R: Use of FE technique for the analysis of composite structures, 5A487

ALI, SK: Computer controlled, finite duration "steady" flow facility, 2A969

ALI, SR: Novel technique for the evaluation of membrane penetration, 2T517

ALI, Y: Experimental determination of dynamic forces during transient orthogonal cutting, 7A739

ALI-ZADE, AN: Variational principle in calculating the long-term strength of structures, 8A763

ALIABADI, MH: Contact Mechanics II - Computational Techniques, 2N24
- Computer Methods and Experimental Measurements for Surface Treatment Effects II, 3N22
- Dynamic Fracture Mechanics, 1R16
- Boundary Element Reference Database, 7N2
- Localized Damage IV: Computer-Aided Assessment and Control - Proc of 4th Int Conf, Fukuoka, Japan, June 1996, 11N31
- Boundary Element Technology X - Proc of 10th Int Conf on Boundary Technology (BETECH 95), Liege, Belgium, Sept 13-15, 1995, 1N2
- Anisotropic analysis of cracks in composite laminates using the Dual BEM, 1A805
- Single-region time domain BEM for dynamic crack problems, 2A49
- Approximate analysis of dynamic contact between crack surfaces, 5A665
- Taylor expansion algorithm for integration of 3D near-hypersingular integrals, 7A57
- Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, 8A621
- Three-dimensional flaw identification using inverse analysis, 9A853

- Indirect BEM for 3D dynamic fracture mechanics, 9A849
- Laplace transform DBEM for mixed-mode dynamic crack analysis, 10A830
- Influence of elastic waves on dynamic stress intensity factors: 2D problems, 10A773
- Application of the dual BEM to the analysis of cracked stiffened panels, 10A826
- Boundary element formulations for the dynamic analysis of cracked structures, 11A695
- Dual BEM for transient thermoelastic crack problems, 11A59

ALIFANOV, OM: Extreme Methods for Solving Ill-Posed Problems with Applications to Inverse Heat Transfer Problems, 10R32

ALIGROT, C: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203

ALIZADE, RI: Five-parameter synthesis of a four-link spherical mechanism, 7A1014

ALKAM, MK: Methanol and hydrogen oxidation kinetics in water at supercritical states, 12A1308

ALKHALIFAH, T: Velocity analysis for transversely isotropic media, 1A1382
- Fowler DMO and time migration for transversely isotropic media, 11A1372

ALLADA, V: Feature-based modeling approaches for integrated manufacturing: State-of-the-art survey and future research directions, 4A421

ALLAHDADI, FA: Analysis of the Solwind fragmentation event using theory and computations, 7A986

ALLARD, J-F: Sound field of a baffled piston source covered by a porous medium layer, 1A319
- Measurement and prediction of the reflection coefficient of porous layers at oblique incidence and for inhomogeneous waves, 6A244

ALLCHURCH, MJ: Development of a knowledge-based system for balancing complex mixed model assembly lines, 10A501

ALLEN, B: Integrated approach to Smart House technology for people with disabilities, 10A1485

ALLEN, C: Review of the performance of engineering materials under prevalent tribological and wear situations in South African industries, 8T789

ALLEN, DH: Evaluation of first ply failure in a 3D load space, 1A539
- Modeling of oxidation in metal matrix composites, 4A1247
- Continuum thermodynamic analysis of cohesive zone models, 4A749
- Micromechanics and homogenization of inelastic composite materials with growing cracks, 8A441

ALLEN, HG: Fatigue behavior of polymer composite sandwich beams, 6A605
- Through-the-thickness tension strength of 3D braided composites, 8A661
- Strength and stiffness of fiber-reinforced plastic plates, 11A518

ALLEN, JH: Behavior of RC bridge decks with flexible girders, 6A767

ALLEN, JJ: Distributed mechanics of the canine right ventricle: Effects of varying preload, 6T1337

ALLEN, JK: Integrating robustness into multiobjective space vehicle design process, 3T315
- Experimental satellite trajectory analysis using decision-based robust design, 3A348
- System configuration: Concurrent subsystem embodiment and system synthesis, 12A470

ALLEN, JL: Development of fast response aerodynamic probes for flow measurements in turbomachinery, 5A1076

ALLEN, JS: Nonlinear shear instabilities of alongshore currents on plane beaches, 9A1171

ALLEN, MG: Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, 4A1254
- Simultaneous water vapor concentration and temperature measurements using 1.31-μm diode lasers, 8A1053
- Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, 8A1057

ALLEVING, P: Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, 9A1249

ALLEYNE, A: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9

ALLEYNE, DN: Excitation of Lamb waves in pipes using dry-coupled piezoelectric transducers, 12A793

ALLI, H: Exact time-optimal control of the wave equation, 6A284

ALLINGER, TL: Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion, 8A1424
- Stability of muscle fibers on the descending limb of the force-length relation: A theoretical consideration, 8A1418

ALLIO, N: Combined effects of the fiber distribution and of the fiber matrix of interphase matrix transverse modulus ratio on the possible fracture modes of unidirectional composites submitted to a transverse loading, 4A720

ALLMAN, DJ: Implementation of a flat facet shell FE for applications in structural dynamics, 9A209

ALLMAN, MC: Modern Astrodynamics: Fundamentals and Perturbation Methods, 10R7

ALLWRIGHT, JC: Nonlinear inverse dynamics control of aircraft using spoilers, 8A1017

ALMAEV, RK: Wave beam tremble within an absorbing random medium with lens properties, 10A260
- Wave beam tremble within an absorbing random medium with lens properties, 11A175

ALMEIDA PRADO, AFB: Stochastic approach to the problem of spacecraft optimal maneuvers, 2A205

ALMEIDA, AR: Integral transform methodology for convection-diffusion problems in petroleum reservoir engineering, 2A1224

ALMEIDA, RC: Adaptive Petrov-Galerkin formulation for the compressible Euler and Navier-Stokes equations, 8A921

ALMEKINDERS, L: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385

ALMGREN, R: Crystalline Saffman-Taylor fingers, 4A937

ALMUSALLAM, TH: Optimality and safety of rigidly- and flexibly-jointed steel frames, 1A917

ALONSO, C: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769

ALONSO, EE: Unsaturated soils-Sols non satures - Proc of 1st Int Conf, UNSAT 95, Paris, France, Sept 1995, 12N37
- Estimation of parameters in geotechnical backanalysis - I: Maximum likelihood approach, 7A700
- Parameter and variance estimation in geotechnical backanalysis using prior information, 7A1368
- Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, 7A701

ALONSO, M: Orientation-specific dynamic shape factors for doublets and triplets of spheres in the transition regime, 7A1349
- Penetration of ultrafine particles and ion clusters through wire screens, 9A1346
- Effect of alpha source to aerosol distance on the performance of a diffusion charger, 11A1316

ALONSO, P: BEM applied to 2D thermoelastic contact problems including conduction and forced convection in interstitial zones, 3A1185

ALP, TY: Modeling of waste heat recovery by looped water-in-steel heat pipes, 1A1284

ALPAS, AT: Wear of aluminum matrix composites reinforced with nickel-coated carbon fibers, 10A978

ALPERT, BK: High-order quadratures for integral operators with singular kernels, 3A71

ALPERT, RL: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31

ALSALEH, MA: Comparative study for the estimation of parameters in nonlinear models, 12A61
- Application of Hankel matrices in polynomial regression, 12A59

ALSHEGEIR, A: Analysis and design of mushroom slabs with a strut-tie model, 3A581

ALSOP, S: Experimental investigation of effects of vibration upon elastic and cohesive properties of beds of wet sand, 1A696

ALTAN , BS: Definition of crack problems in elasticity, 9A786

ALTAN, BS: Longitudinal vibrations of a beam: A gradient elasticity approach, 7T220

ALTAN, T: Failure and wrinkling criteria and mathematical modeling of shrink and stretch flanging operations in sheet-metal forming, 3A610
- Fabrication of vascular replicas from magnetic resonance images, 5A1392

ALTENA, EG: Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869

ALTENBACH, H: Stress state calculation of a repair of a uni- or bi-axially loaded laminate structure, 1A583
- Generalized constitutive equation for creep of polymers at multi-axial loading, 8A876
- Generalized failure criterion for 3D behavior of isotropic materials, 10A765

ALTENBACH, J: Generalized constitutive equation for creep of polymers at multi-axial loading, 8A876

ALTENKIRCH, RA: Effect of ambient pressure on flame spread over thin cellulosic fuel in a quiescent, microgravity environment, 8A1274

ALTINTAS, Y: Cutting force and dimensional surface error generation in peripheral milling with variable pitch helical end mills, 8A553
- Prediction of milling force coefficients from orthogonal cutting data, 11A598

ALTUNIN, VA: Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, 8A1204

ALTUS, E: Effect of static mode on fatigue crack growth by a unified micromechanic model, 2A673

ALVAREZ, GA: Finite element solution of the torsion equations for radial lip seals, 2A818

ALVAREZ, J: Synchronization in the Lorenz system: Stability and robustness, 10T394

ALVI, FS: Experimental study of compressible countercurrent turbulent shear layer, 9A1163

ALVIN, KF: Consistent model reduction of experimental modal parameters for reduced-order control, 1T374

ALVING, AE: Effect of riblets on sails, 4A1105

ALWAR, RS: Inelastic strain concentration in directionally solidified materials, 3A473
- Elastoplastic stress and strain predictions for axisymmetric pressure-vessel bodies under transient thermal loads, 8A780

ALWIS, WAM: Simply supported polygonal Mindlin plate deflections using Kirchhoff plates, 6A480
- Wagner term in flexural-torsional buckling of thin-walled open-profile columns, 6A493
- Dynamic response of elasto-plastic planar arches, 8A419
- Buckling of tapered circular plates: Allowances for effects of shear and radial deformation, 11A548

ALY, G: Energy efficient evaporation process for treating bleach plant effluents, 3A1090

AMABILI, M: Natural frequencies and modes of free-edge circular plates vibrating in vacuum or in contact with liquid, 6A211
- Free vibration of a fluid-filled circular cylindrical shell with lumped masses attached, using the receptance method, 10A301
- Free vibrations of annular plates coupled with fluids, 10A306
- Free vibration of partially-filled, horizontal cylindrical shells, 10A302
- Effect of finite fluid depth on the hydroelastic vibrations of circular and annular plates, 12A260

AMADA, S: Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478

AMADEI, B: Stress concentration at irregular surfaces of anisotropic half-spaces, 5A400
- Role of topography and anisotropy when selecting unlined pressure-tunnel alignment, 6A538
- Three-dimensional BE formulation of anisotropic elasticity with gravity, 7A58
- Stress interaction between multiple crevasses in glacier ice, 11A1445

AMANIAMPONG, G: Analysis of the tensile strength of a parallel-lay ropes and bundles of parallel elements by probability theory, 2A457
- Monte-Carlo simulations of the time-dependent failure of bundles of parallel fibers, 10A164

AMANN, N: Iterative Learning Control: An overview of recent algorithms, 1A375

AMANO, RS: Heat Transfer in Turbulent Flows, HTD-Vol 318 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N32

AMAR, N BEN: Numerical analysis of adsorptive temperature wave regenerative heat pump, 8A1211

AMARANATH, T: Two dimensional Stokes flows with slip-stick boundary contitions, 2T877
- Stokes flow past a composite porous spherical shell with a solid core, 10A1425

AMARI, T: Negative thixotropy in ferric-oxide suspensions, 1A965

AMARNATH, S: Torsion of half-space with lined cylindrical hole, 11T415

AMATO, F: Design and robustness analysis of gain-scheduled control system for parabolic flight, 8A1012

AMATO, U: Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, 4A1288

AMAYA, K: Boundary element study on the optical method of caustic for measuring fast crack propagation toughness K_{ID}, 2A47
- Inverse analysis of galvanic corrosion using fuzzy a priori information, 3A18

AMBERG, G: Hydrodynamical instabilities of thermocapillary flow in a half-zone, 2A887

AMBRASEYS, NN: Prediction of horizontal response spectra in Europe, 9A1393
- Prediction of vertical response spectra in Europe, 9A1394

AMBROSE, JH: Sensor cooling by direct blowdown of a coolant, 3A1077

AMBROSINI, RD: Dynamic analysis of thin-walled and variable open section beams with shear flexibility, 1A595

AMBROSINO, G: Design and robustness analysis of gain-scheduled control system for parabolic flight, 8A1012

AMBROSIO, JAC: Dynamics of structures undergoing gross motion and nonlinear deformations: A multibody approach, 10A79

AMBUR, DR: Low-speed impact damage-initation characteristics of selected laminated composite plates, 3A196
- Buckling analysis of general triangular anisotropic plates using polynomials, 4A571
- D-box fixture for testing stiffened panels in compression and pressure, 5A735
- Damage tolerance and failure analysis of a composite geodesically stiffend compression panel, 11A790

AMDE, AM: Local damage assessment of metal barriers under turbine missile impacts, 6A168

AMEDIN, CK: Sound field of a baffled piston source covered by a porous medium layer, 1A319

AMEEL, TA: Effects of a nonabsorbable gas on interfacial heat and mass transfer for the entrance region of a falling film absorber, 7A1395

AMEMIYA, K: FEM analysis of torsional strength for twist drill, 1T15

AMERI, AA: Transition modeling effects on turbine rotor blade heat transfer predictions, 11A1062

AMETISTOV, YV: Superheated vapor condensation on a superfluid helium surface, 1A1243

AMEVO, B: Biological basis for instantaneous centers of rotation of the vertebral column, 3A1403

AMEZUA, E: Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, 2A132

AMIELH, M: Velocity near-field of variable density turbulent jets, 10A1166

AMIEZ, G: Super-time-stepping acceleration of explicit schemes for parabolic problems, 7A1251

AMIN, MR: Conjugate natural convection in a planar thermosyphon with multiple inlets - II: Heat transfer, 3A1035
- Conjugate natural convection in a planar thermosyphon with multiple inlets - I: Velocity and temperature fields, 3A1034

AMIN, N: Seismic isolation retrofit of large historic building, 8A1344
- Free convection at an axisymmetric stagnation point, 11A1116

AMIN, SG: Computer-aided design of acoustic horns for ultrasonic machining using FE analysis, 7A33

AMINI, F: Time effects on dynamic soil properties under random excitation conditions, 4A609
- Neural network for structural dynamic model identification, 6A274
- Dynamic properties of cohesive soils treated with lime, 10A658

AMINPOUR, MA: Coupled analysis method for structures with independently modeled FE subdomains, 4A563

AMIR, N: Discrete model for tubular acoustic systems with varying cross section - The direct and inverse problems - Part 1: Theory, 4A317
- Discrete model for tubular acoustic systems with varying cross-section - The direct and inverse problems - Part 2: Experiments, 4A318
- Losses in tubular acoustic systems: Theory and experiment in the sampled time and frequency domains, 9A393

AMIRBAYAT, J: Experiments on inextensional collapse of circular paper disks including the influence of holes, 7A660

AMIRO, IY: Determination of the stressed state of shells of revolution subjected to the effect of local loads, 7A619
- Effect of the form of meridian and ring reinforcement on the value of critical pressure for the shells of revolution, 7A671

AMIROUCHE, FML: Implementation of the BEM in the dynamics of flexible bodies, 6A41
- Mathematical model of a time and position variant external load on a gear tooth using the modified Timoshenko beam equation, 12A957

AMIROUDINE, S: Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, 12A1216

AMIS, AA: Loading of the two bundles of the posterior cruciate ligament: An analysis of bundle function in A-P drawer, 12A1448

AMMAR, S: Exact stability model of space frames, 11A546

AMMERMAN, CN: Identification of pool-boiling heat transfer mechanisms from a wire immersed in saturated FC-72 using a single-photo and LDA method, 8A1125
- Determination of the boiling enhancement mechanism caused by surfactant addition to water, 11A1167

AMMONS, BA: Boundary element analysis of cracks, 8A56

AMMOUCHE, A: Cracking and permeability of concrete under tension, 10A841

AMODIO, D: Finite strain analysis by image processing: Smoothing techniques, 5A680

AMON, CH: Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, 8A1171

AMRUTHARAJ, GS: Fracture process zone concept and delamination of composite laminates, 4A731

AN , KN: Accuracy of a video strain measurment system, 10A1482

AN, BOOY VIET: Friction losses in two-phase flow taking into account relative motion of phases, 1A1034

AN, C-F: Stream function coordinate Euler formulation and shocktube application, 11A1086

AN, DUONG-PHUOC: Design of longitudinal control system for brushless motor electric vehicle using VSTC control theory, 6A326

AN, KAI-NAN: Comparison of intersegmental joint dynamics to isokinetic dynamometer measurements, 1A1443
- Determination of the proximity tolerance for measurement of surface contact areas using a magnetic tracking device, 6A1363
- Importance of soft-tissue integrity on biomechanical studies of the patella after TKA, 9A1436

AN, LI: Push-out tests on studs in high strength and normal strength concrete, 6A752

AN, LINAN: Damage-resistant alumina-based layer composites, 6A659
ANAGNOSTOPOULOS, P: Numerical study of the blockage effects on viscous flow past a circular cylinder, 11A881
ANAGNOSTOU, G: Seepage flow around tunnels in swelling rock, 3A587
- Influence of tunnel excavation on the hydraulic head, 3A586
ANAND, GV: Eigenray tracing in an ocean using Fermat's principle, 2A181
ANAND, K: Numerical study of the compression and shear failure of woven carbon-carbon laminates, 6A670
- Mechanisms and quantification of spalling failure in laminated composites under shock loading, 11A684
ANAND, L: Single crystal and polycrystal elastovisco-plasticity: Application to earing in cup drawing of FCC materials, 7A534
- Computational procedure for rate-independent crystal plasticity, 8A439
ANAND, NK: Heat Transfer in Turbulent Flows, HTD-Vol 318 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N32
- Turbulent deposition of aerosol particles in large transport tubes, 8A1303
- Heat (mass) transfer in a serpentine channel with right-angled turns, 8T1072
- Heat transfer correlation for condensation inside horizontal smooth tubes using the population balance approach, 12A1233
ANAND, S: Feature-based modeling approaches for integrated manufacturing: State-of-the-art survey and future research directions, 4A421
ANANDA, MM: Adaptive Bayes estimators for parameters of the Gompertz survival model, 7A68
ANANKAWANICH, N: Robotic analyses and simulation of automatic control of excavator finish trenching, 7A406
ANANTH, CR: Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, 6A687
ANANTHA RAMU, S: Analysis of inertance due to the higher order mode effects in a sudden area discontinuity, 1A292
- Vibration and stability of fluid conveying pipes with stochastic parameters, 8A223
ANANTHARAMAN, M: Flexible multibody dynamics: An object-oriented approach, 7A89
ANANTHKRISHNAN, N: Inertia-coupled coordinated roll maneuvers of airplanes, 1T1114
- Jump phenomena in y-shaped intake ducts, 9T1155
- Characterization of periodic motions in aircraft lateral dynamics, 11A147
ANASTASIOU, K: Automatic triangular mesh generation scheme for curved surfaces, 9A93
ANASTASSIADES, T: Correlation of 2GCHAS analysis with experimental data, 6A1036
ANASTASSOPOULOS, A: Non Destructive Testing - Proc of 1st Joint Belgian-Hellenic Conf on Non Destructive Testing, Patras, Greece, May 1995, 12N27
ANAYA-DUFRESNE, M: Exact solutions of Reynolds equations, 5T1088
ANAZAWA, S: Real-time optimal state feedback control for tethered subsatelite system, 12T414
ANBAR, ES: Statistical norms for off-road wheeled vehicle parameters, 3A162
ANDERMANN, F: Circular plate in contact with an elastic half-space by unilateral constraints (Polish), 6A486
ANDERSEN, JS: Effects of wave asymmetry on sheet flow, 2T857
ANDERSEN, P: Hydrodynamics of Ship Propellers - Cambridge Ocean Technology Series 3, 3R26
ANDERSLAND, MS: Measurement scheduling for recursive team estimation, 12T328
ANDERSON JR, CE: Proceedings of the 1994 Symposium - Part I and Part II: Hypervelocity impact, October 17-19, 1994, 5A64
- Scale model experiments with ceramic laminate targets, 5A197
- L/D effect for long-rod penetrators, 7A255
- Penetration erosion phenomenology, 10A280
ANDERSON JR, JD: Computational Fluid Dynamics: The Basics with Applications, 4R22
ANDERSON, AL: Predictions of the acoustic scattering response of free-methane bubbles in muddy sediments, 6A245
ANDERSON, AM: Elements of a general correlation for turbulent heat transfer, 11A1098
ANDERSON, CF: Radiative properties of films using partial coherence theory, 6A1134
ANDERSON, CR: High-order explicit method for the computation of flow about a circular cylinder, 9T1079
ANDERSON, DD: Physical modeling of hip joint forces in stair climbing, 9A1439
ANDERSON, DM: Weakly nonlinear analysis of convection in mushy layers during the solidification of binary alloys, 4A1073
- New oscillatory instability in a mushy layer during the solidification of binary alloys, 7A1119
ANDERSON, DP: Effect of carbonization heating rate, microstructure, and layup on the interlaminar tensile properties of a 2D carbon-carbon composite, 10A583
ANDERSON, EH: Actuator with built-in viscous damping for isolation and structural control, 6A322
ANDERSON, G: Derivation of minimal support basis functions for the discrete divergence operator, 4A975
ANDERSON, HJ: Analysis of the fatigue failure of toe pieces forming part of a header in a descaling system in a hot strip rolling mill, 10A741
ANDERSON, J: Fowler DMO and time migration for transversely isotropic media, 11A1372
ANDERSON, JG: Beginnings of earthquakes in the Mexican subduction zone on strong-motion accelerograms, 2A1239
- Earthquake size as a function of fault slip rate, 12A1358
ANDERSON, K: Instabilities and the formation of bubbles in fluidized beds, 4A1313
ANDERSON, LA: Pitch analysis of a space module after water landing, 1A254
ANDERSON, LR: Iterative FE-BE algorithm, 9A61
ANDERSON, MJ: Resonant transmission of a 3D acoustic sound beam through a solid plate in air: Theory and measurement, 3A250
ANDERSON, MR: Mixed H_2/H_∞ optimal control for an elastic aircraft, 11A284
ANDERSON, MW: Flight testing a general aviation head-up display, 7T1172
ANDERSON, PM: Shielding due to aligned microcracks in anisotropic media, 10A813
ANDERSON, RC: OH imaging in a lean burning high-pressure combustor, 8T1259
ANDERSON, RJ: Model reduction procedure for the dynamic analysis of rail vehicles subjected to linear creep forces, 11A146
ANDERSON, RW: Three-dimensional wake formations behind a family of regular polygonal plates, 11A898
ANDERSON, S: Single-event upset effects on the Clementine solid-state data recorder, 5A752
ANDERSON, SL: Particle motion in the stagnation zone of an impinging air jet, 2A923
- Interpretation of PIV autocorrelation measurements in complex particle-laden flows, 8A938
- Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
ANDERSON, WE: Liquid Rocket Engine Combustion Instability, 6N33
ANDERSON, WF: Novel technique for the evaluation of membrane penetration, 2T517
ANDERSON, WJ: Mode tracking issues in structural optimization, 3A759
ANDERSON, WK: Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, 5A993
ANDERSSON , M: Perturbation method used for static contact and low velocity impact, 2A168
ANDERSSON, E: Allowing higher speeds on existing tracks: Design considerations of the X2000 train for Swedish State Railways, 6A161
ANDERSSON, HI: Buoyancy-affected laminar film condensation, 3A1086
- Start-up flow in a porous medium channel, 5A1301
- Exact solution of the Navier-Stokes equations for magnetohydrodynamic flow, 5A980
- Flow of a power-law fluid film on an unsteady stretching surface, 8A901
- Secondary flow in weakly rotating turbulent plane Couette flow, 12A1115
ANDERSSON, HO: Routine FE determination of stress intensity factors using a Muller-Broslau influence function technique, 3A682
ANDERSSON, L-E: Optimum transmission of extensional waves through a non-uniform viscoelastic junction between elastic bars, 8A167
ANDIARTI, R: Controllability and optimization in aeroassisted orbital transfer, 1T390
ANDO, A: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
ANDO, K: Damage healing and strengthening behavior in intelligent mullite-SiC ceramics, 2A661
ANDO, L: Friction characteristics and adhesion force under low normal load, 5A781
ANDO, M: Studies of super-smooth polishing on aspherical surfaces, 1A739
- Studies of super-smooth polishing on aspherical surfaces (Japanese), 4T647
- Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), 9T736
ANDO, T: Adhesion between Ni/Fe lead frame and epoxy molding compounds in IC packages, 8A850
- Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), 9A910
ANDRADE, C: Experimental study of durability of reactive powder concretes, 7A544
- Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769
ANDRADE-CETTO, J: Modeling and control of excavator dynamics during digging operation, 6A545
ANDRE, R: Piezoelectric effect in strained CdTe-based heterostructures, 6A513
ANDRE, S: Theoretical study of the transient coupled conduction and radiation heat transfer in glass: Phonic diffusivity measurements by the flash technique, 2A1137
ANDREANI, M: In situ study of short-beam shear tests for composite materials, 7A596
ANDREAS ASBJORNSEN, O: Model based statistical process control for continuous systems, 12A418
ANDREESCU, A: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
ANDREEV, AB: Thermal and hydraulic characteristics of microchannel porous structures, 10A1270
ANDREICHIKOV, AV: Computer simulation of the creative procedures used in synthesizing novel antivibration systems, 9A1009
ANDREOPOULOS, J: Wall-vorticity flux dynamics in a 2D turbulent boundary layer, 8A982
ANDRES, N: Fast quantitative processing of particle image velocimetry photographs by a whole-field filtering technique, 4A1130
ANDRESEN, B: Optimal analysis of primary performance parameters for an endoreversible absorption heat pump, 2A1144
ANDREUCCI, D: Identification of parameters in polymer crystallization, 2A451
ANDREWS, GC: Wittenburg's formulation of multibody dynamics equations from a graph-theoretic perspective, 6A84
ANDREWS, JG: Methods for investigating the sensitivity of joint resultants to body segment parameter variations, 8A1411
ANDREWS, KT: Dynamic vibrations of an elastic beam in frictional contact with a rigid obstacle, 11A106
ANDREWS, MJ: Structure of shear-driven mixing with an unstable thermal stratification, 9A1074
- Prediction of turbulent heat transfer in rotating smooth square ducts, 11A1143
- Simulation of mixing layers driven by compound buoyancy and shear, 12A1152
ANDREWS, NC: Continuum dynamic behavior of homogeneous liquid-crystalline polymers under the imposition of sheared magnetic fields, 4A893
- Out-of-plane orientational dynamics of polymer liquid crystals under flow, 11A850
ANDREWS, RM: TWI biaxial test program: 1984-1994, 1T500
ANDREWS, S: Thermal erosion of magnetoplasmadynamic thruster cathode, 8T1185
ANDRIANOPOULOS, NP: Dynamic crack instability: The twin-crack model, 9A831
- Influence of the temperature field on the propagation of cracks, 9A1280
ANDRIANOV, I: Two-point quasifractional approximants for effective conductivity of a simple cubic lattice of spheres, 11A1197
ANDRIANOV, IV: Asymptotic methods in the theory of perforated membrane of nonhomogeneous structure, 1A614
- Calculation plates with wide ribs (Russian), 7T612
ANDRICEVIC, R: Spatial and temporal analysis of groundwater recharge with application to sampling design, 8T1405
ANDRISANO, AO: Structural evaluation of ceramic femoral heads: Effect of taper friction, support conditions and trunnion compliance, 5A1396
- Discussion on the design of a hip joint simulator, 10A1464
ANDRONOV, IV: Application of zero-radius potentials to problems of diffraction by small inhomogeneities in elastic plates, 4A316
ANDROSIUK, J: Approximate description of Stokes' type waves generated in fluid of constant depth, 9A289
ANELLO, M: Buoyancy- and pressure-driven motion in a vertical porous layer: Effects of quadratic drag, 8A1088
ANG, AH-S: Finite element fracture reliability of stochastic structures, 8A624
ANG, AHS: Seismic reliability of electrical power transmission systems, 9A1388
ANG, HE: Boundary element analysis of orthotropic delamination specimens with interface cracks, 12A773
ANG, HG: Empirical strain rate-dependent constitutive relationship for glass-fiber reinforced epoxy and pure epoxy, 7A576
ANG, WT: Periodic array of staggered planar cracks in an anisotropic elastic modium, 9A830
- Hypersingular integral equations for multiple interacting planar cracks in an elastic layered material under antiplane shear stress, 9A792
ANGELES, J: Kinematics and Dynamics of Multi-Body Systems, 5N10
- Design of kinematically isotropic rolling robots with omnidirectional wheels, 2A296
- Isotropic design of two general classes of planar parallel manipulators, 4A856
- Real-time direct kinematics of general six-dof parallel manipulators with minimum-sensor data, 4A401
ANGELILLO, M: Statically admissible stress fields for a plane masonry-like structure, 4A430
ANGELINI, L: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
ANGELOV, TA: Numerical analysis of steady-state rolling problem, 4T632
- Variational approach of a problem for the non-steady rolling process, 4T633
- Class of Winkler-type contact problems, 11A425
ANGHAIE, S: Numerical modeling of conduction-driven bulk evaporation and condensation processes with constant volume, 6A1108
ANGIRASA, D: Numerical simulation of transient natural convection from an isothermal cavity open on a side, 5A1131
- Parametric study of buoyancy-induced flow and heat transfer from L-shaped corners with asymmetrically heated surfaces, 5A1132
ANGLETON , GM: Least squares regression vs geometric mean regression for ecotoxicology studies, 1A60
ANGLIN, C: Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, 10A577
- Strength and damage mechanisms of notched 2D triaxial braided textile composites and tape equivalents under tension, 11A686
ANGSTER, J: Documentation of the sound of a historical pipe organ, 2A215
ANGUY, Y: Towards realistic flow modeling - Creation and evaluation of 2D simulated porous media: An image analysis approach, 11A1325
ANHEDEN, M: Photocatalytic treatment of wastewater from 5-fluorouracil manufacturing, 7A1396
ANIDJAR, F: Mass exchange between droplets during head-on collisions of multisize sprays, 2A1165
- Solution of a class of polydisperse spray problems, 8A937
ANIFANTIS, NK: Computation of Mode I and II thermal shock stress intensity factors using a boundary-only element method, 5A1191
ANIKYV, IL: Possibility of nondestructive determination of critical load of the rod-type structures, 7A655
ANIL KUMAR, CV: Chaotic dynamics of periodically forced spheroids in simple shear flow with potential application to particle separation, 4A876
ANILKUMAR, AV: Oscillations of liquid drops: Results from USML-I experiments in Space, 8A932
ANIS, WR: Design of control circuit of solar photovoltaic powered regulated cathodic protection system, 4A1356
- Performance analysis of PV pumping systems using switched-reluctance motor drives, 8A1387
ANJILVEL, S: Effect of fiber inertia on its orientation in a shear flow with application to lung dosimetry, 2A1204
ANKARA, A: Effects of short cracks on fatigue life calculations, 8A573
- Comparison of short and long fatigue crack growth in steel, 8A580
ANKIREDDI, S: Simple ATMD control methodology for tall buildings subject to wind loads, 6A729
ANKUDINOV, AL: Mathematical model for a 3D viscous thin shock layer, 10T1137
ANLAS, G: Modeling the effect of fiber breakage on the elastic properties of short-fiber composites, 1A543
- Anisotropic effective moduli of materials with microcracks, 4A754
ANNAKA, T: Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), 5T1332
ANNANDALE, GW: Erodibility, 2T858
ANNAPRAGADA, M: Modeling and simulation of assembly in a free-floating work environment by a free-floating robot, 8A357
ANNENKOV, SY: Manifestations of bottom topography on the ocean surface: The physical mechanism for large scales, 8A1357
ANNIGERI, BS: Surface integral and FE hybrid method for 3D analysis of arbitrarily shaped surface cracks, 10A760
ANOSHKIN, A: Prediction of the transversal strength of unidirectional composites under combined loading (Russian), 2A654
ANSAL, AM: Posttesting correction procedure for membrane compliance effects on pore pressure, 6A522
ANSARI, AA: Polynomials for the states and control of control systems with time delay, 9T417
ANSARI, F: Fiber optic polarimetric dynamic force sensor, 7T413
ANSARIFAR, MA: Mechanics of rubber-to-metal bond failure, 5A650
ANSARY, MA: Statistical analysis of peaks and directivity of earthquake ground motion, 4A1326
ANSARY, O: Balancing model order reduction technique for descriptor-like systems, 3A309
- Observability of a specially structured model, 3A310
ANSELMET, F: Statistics of temperature increments in fully developed turbulence - Part II: Experiments, 1A1089
- Spectral contribution of coherent motions in a turbulent boundary layer, 4A1087
- Numerical modeling of variable density turbulent jets, 8A1115

- Velocity near-field of variable density turbulent jets, 10A1166
ANSHEL, MH: Effect of divergent self-monitoring strategies on motor performance and emotion as a function of alternating task complexity, 12T1460
ANSON, LW: Multiple scattering of ultrasound in suspensions, 2A221
- Feasibility of detecting pre-cracking fatigue damage in metal-matrix composites by ultrasonic techniques, 3A734
ANSON, S: Determination of parameters affecting solder paste tack strength as measured in the IPC tack test: A classical design of experiments approach, 12A706
ANSOURIAN, P: Influence of primary boundary conditions on the buckling of shallow cylindrical shells, 6A500
- Buckling of circular cylindrical shells subject to uniform lateral pressure, 12A623
ANTALIK, J: Heat capacities of $15Na_2O{\cdot}10(MgO, CaO, TiO_2, ZrO_2){\cdot}75SiO_2$ glasses, 8A1062
ANTAR, BN: Numerical analysis of strongly nonlinear baroclinic instability, 2A976
ANTES, H: Automatic mesh generation for computing symmetric local stresses by 2D-viscoplastic BEM with modified transfinite method, 4A69
ANTHONY, EJ: Fluidized bed combustion of alternative solid fuels: Status, successes, and problems of the technology, 4A1257
ANTHONY, K-H: Dislocation dynamics by means of Lagrange formalism of irreversible processes: Complex fields and deformation processes, 4A468
ANTIC, D: Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, 11A384
ANTIPOV , YA: Interface crack between elastic materials when there is dry friction, 2A652
ANTMAN, SS: Coexistent phases in nonlinear thermoelasticity: Radially symmetric equilibrium states of aeolotropic bodies, 6A1163
ANTOHE, BV: Amplitude effect on convection induced by time-periodic horizontal heating, 7A1209
ANTOLIK, M: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 2: Application to seismograms recorded by the Parkfield High Resolution Seismic Network, 12A1370
- Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 1: Techniques and application to seismograms recorded in the Anza seismic gap, 12A1369
ANTON, IM: Scale effect and the coefficient V of hydraulic losses for Francis turbines, 11A1046
ANTONENKO, VA: Methods of liquid feeding to a capillary-porous coated surface, 10A1285
ANTONIA, RA: Vorticity characteristics of the turbulent intermediate wake, 9A1182
- Scaling of mean square vorticity in turbulent flows, 9T1184
- Laser doppler anemometer measurements of turbulent boundary layer over a riblet surface, 10A1131
ANTONIADIS, DA: Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, 3A1166
ANTONIAK, ZI: Parametric study of radiative heat transfer in arrays of fixed discrete surfaces, 8T1175
ANTONICELLI, M: Optimal time re-entry of vehicles by asymptotic matching, 6A318
ANTONIO, CAC: Optimization of laminated composite structures using a bilevel strategy, 7A908
ANTONOPOULOS, KA: Analytical superposition approach to wall heat conduction under arbitary temperature perturbations for air-conditioning applications, 2A1123
- Performance of solar-driven ammonia-lithium nitrate and ammonia-sodium thiocyanate absorption systems operating as coolers or heat pumps in Athens, 5A1356
- On-site experimental estimation of thermal conductivities and heat capacities in multilayer walls under arbitrary transient conditions using explicit and implicit finite difference schemes, 6A1114
- Finite-difference prediction of transient indoor temperature and related correlation based on the building time constant, 12A1266
ANTONY, SJ: Interaction analysis of strip footing resting on a non-homogeneous elastic medium, 11A573
ANTOSZEWSKI, B: Modification of tribological properties of surface layer by laser beam diffusion (Polish), 6A587
- Friction and wear behavior in plasma sprayed coatings, 9A978
ANTSIFEROV, VN: Fricion and wear of powder steels at limited lubrication, 6A783
ANTUNES DO CARMO, JS: Breaking waves and wave-current interaction in shallow water: A 2DH FE model, 8A198
ANUTA JR, AE: Modal equations and equal frequencies in definite systems, 12A195
ANWAR, HO: Velocity profile in shallow coastal waters, 9T1399
AO, QINGBO: BEM treatment of body forces in plane orthotropic elastostatics, 2A380
AOI, S: Waveform inversion for determining the boundary shape of a basin structure, 3A1281
- Simulation of the seismic response of a 2D sedimentary basin: A comparison between the indirect BEM and a hybrid technique, 3A1339
AOI, Y: Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, 5A1060
AOKI, I: Water flash evaporation under low pressure conditions, 2A1115
AOKI, K: Accurate probe-response calculation in eddy current NDE by FEM, 9A43
AOKI, S: Boundary element study on the optical method of caustic for measuring fast crack propagation toughness K_{ID}, 2A47
- Inverse analysis of galvanic corrosion using fuzzy a priori information, 3A18
- Electrostatic wobble motor (Japanese), 3T397
- Dynamic characteristics of welded structures, 9A171
AOKI, T: Fundamental study on prediction of slope failure by acoustic emission (Japanese), 4T617
- Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
- Study on controlling algorithm to realize high-speed & high-accuracy control systems (1st Report): Proposal of modified delta operator (Japanese), 9A438
AOSHIMA, N: Parameter identification of robot arm with repetitive control, 8A268
AOTO, K: Study on metallographic damage parameter in creep-damage-dominant condition under creep-fatigue loading, 11A653
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
AOUABED, H: Dynamics of electrodiffusion probes in developing annular flows, 6T1004
AOYAGI, S: Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), 1A428
- Application of ultrasonic sensors to robot measurement (Japanese), 9T460
AOYAMA, E: Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
AOYAMA, H: Precise tilting control of rotating table: Mechanical structure and preformance (Japanese), 4A864
- Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, 7A874
AOYAMA, T: Effect of blade-tip planform on shock wave of advancing helicopter blade, 2A1048
- Static and dynamic stiffness of 1/10 tapered joints for automatic changing, 9A227
APARICIO, AC: Computer aided design of prestressed concrete highway bridges, 12A845
APAZIDIS, N: Motion of a torsion pendulum immersed in a linear viscous liquid, 1A253
- Generation and convergence of polygonal-shaped shock waves, 8A210
APELT, CJ: Comparison of two methods for direct measurement of sectional fluctuating lift on a circular cylinder, 7A1162
APPEL, RE: Radiation force on a spherical object in an axisymmetric wave field and its application to the calibration of high-frequency transducers, 7A315
- Deformation and position of acoustically levitated liquid drops, 9A1128
APHORNRATANA, S: Jet-pump cycle: A low cost refrigerator option powered by waste heat, 2A1143
APOSTOL, M: Deformation of a spherical molecule, 1A126
APOSTOL, V: Sensitivity analysis and optimization of truss-beam components of arbitrary cross-section - I: Axial stresses, 4A795
APOSTOLIDIS, G: Seismic analysis of buried pipeline in a 3D soil continuum, 4A1328
APOSTOLOPOULOU, C: Three-dimensional simulation of structural pounding during earthquakes, 10A1435
APPA, K: Nonlinear multidisciplinary design optimization using system identification and optimal control theory, 5A1000
APPLEGARTH, I: Adaptive analysis of stiffened structures using stiffened plate bending elements, 1A617
- Theoretical formulations for adaptive FE computations, 3A34
ARABADZHI, V: Active cancellation of ship waves, 7T266
ARABIA, M: Application of a mechanical filter to an artificial heart, 11A1477
ARABYAN, A: Novel approach to the dynamic analysis of highly deformable bodies, 3A86
- New pipe element for modeling 3D large deformation problems, 11A37
ARACIL, R: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429
ARAFAT, ES: Manufacturing model for 3D irregular pultruded graphite-epoxy composites, 7A563
- Thermal model for 3D irregular shaped pultruded fiberglass composites, 11A1252
ARAI, E: Disassembly path generation to verify the assemblability of mechanical products, 6A853
ARAI, M: Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, 1T862
ARAI, N: Review of measurements of heat flux density applicable to the field of combustion, 10A1382
ARAI, T: Development of novel material shield-cuttable tunnel-wall system (Japanese), 4T821
- High-speed photography study on engagement process of wet clutch, 7A1193
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
ARAI, Y: Visualization of solidification process in kinetics control system with interferometry, 1A1263
- Visualization by Moire techniques (Japanese), 12T791
ARAKAWA, C: Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf, 2N47
- Turbulent flow simulation of a runner for Francis hydraulic turbines using pseudo-compressibility, 12A1183
ARAKAWA, K: Interlaminar fracture analysis of composite DCB specimens, 8A651
ARAKAWA, M: Nonlinear phenomena induced by finite-amplitude oscillation of air column in a closed duct: Analysis of acoustic streaming, 11A190
ARAKAWA, S: Development of 300 kW class ceramic gas turbine (CGT303), 5A1274
ARAKAWA, Y: Two-dimensional numerical model of plasma flow in a Hall thruster, 4A1278
- Anode heat loss and current distributions in a DC arcjet, 6A1214
- Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, 11T1329
ARAKERE, NK: Analysis of foil journal bearings with backing springs, 6T846
ARAKERI, JH: Comparison of four turbulence models for wall-bounded flows affected by transverse curvature, 9T1192
- Modeling of axially-translating flexible beams, 10A151
ARAKI, M: Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, 10A427
- Absolute stability of sampled-data systems with a sector nonlinearity, 12A320
- Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, 12A1228
ARAKI, N: Transient temperature response of functionally gradient material subjected to partial stepwise heating, 7A1246
- Non-Fourier heat conduction in a finite medium under periodic surface thermal disturbance, 8A1155
- Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, 9A1331
ARAKI, O: Effects of molecular weight distribution on dynamic viscoelasticity and biaxial extensional flow behavior of polystyrene melts, 4A886
ARAKI, S: Effect of a microdefect ahead of a main crack on strength of solids: Exact solution to the main crack-microdefect interaction model, 10A771
- Effects of matrix resin and fiber content on behavior of fatigue crack propagation in continuous-fiber-mat reinforced CP-resin composites (Japanese), 12A713
ARAKI, Y: Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), 4T619
- Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), 4T822
- Impact damper with granular materials for multibody system, 7A211
- Study on coupled torques in contouring control of articulated robot mechanism (Japanese), 9A456
ARAMANOVITCH, LI: Quaternion nonlinear filter for estimation of rotating body attitude, 4A340
ARANCHIY, NE: Precritical state and stability of cylindrical shells beyond the elasticity limit, 7A668
ARAND, M: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $TGF\beta$-release in response to cyclic strain, 5A1373
- Influence of varying muscle forces on lumbar intradiscal pressure: An *in vivo* study, 8A1416
ARANHA, JAP: Second-order horizontal steady forces and moment on a floating body with small forward speed, 11A217
- Second-order slow drift force spectrum, 11A218
ARARUNA JR, JT: Practical, economical and precise volume change measurement device, 2T519
ARATO, T: Thermal stress and strength reliability of heater for cathode ray tube (Japanese), 7A1284
ARAUJO, JM: Objective cracking criterion for the analysis of concrete dams, 9A851
ARBOCZ, J: Reliability of shells via Koiter formulas, 5A703
ARBOLEDA, J: Scheme of random summation of an empirical Green's function to estimate ground motions from future large earthquakes, 6A1267
ARBUZOV, VI: Numerical modeling of hardening polymers (Russian), 8A469
ARCHAMBAULT, JM: Evaluation of the implantable force transducer for chronic tendon-force recordings, 6A1364
ARCHENHOLD, G: Novel technique for determining the 3D spatial distribution of glass fibers in polymer composites, 3A499
ARCHER, LA: Direct measurements of slip in sheared polymer solutions, 4A880
- Secondary flow of entangled polymer fluids in plane Couette flow, 12A1118
ARCHER, RD: Introduction to Aerospace Propulsion, 4R32
ARCHULETA, R: Horizontal-to-vertical spectral ratio and geological conditions: The case of Garner Valley Downhole Array in southern California, 11A1340
ARCHULETA, RJ: Three-dimensional simulation of earthquakes of the Los Angeles fault system, 12A1390
ARCILLA, AS: Vertical distribution of <uw>, 2A179
ARCISZ, M: Hugoniot relations for different heat conduction laws, 7A1245
ARCOUMANIS, C: Development and validation of a computer simulation model for diesel fuel injection systems, 10A1385
ARCZEWSKI, KP: II-matrix: its definition, interpretation and application, 2A79
ARDALAN, K: Steady compressible vortex flows: The hollow-core vortex array, 4A993
ARDEMA, MD: Near-optimal propulsion-system operation for an air-breathing launch vehicle, 5A749
ARDRON, MB: Convective instability in rotating liquid ^3He-^4He mixtures, 11A981
AREF, H: Motion of three-point vortices in a periodic strip, 11A874
ARELLANO, VM: Experimental performance of the water-lithium chloride system in a heat transformer, 2A1142
ARENA, P: Neural networks in multidimensional domains, 8A277
ARENDT, C: Analysis of cracked aluminum plates repaired with bonded composite patches, 7A631
ARENDT, SC: Two-dimensional vortex dynamics in a stratified barotropic fluid, 11A1416
ARENICZ, RM: Semi-empirical formulae in design of reinforced earth structures, 9A682
ARENSTEN, AL: Integration of quality control and shop floor control, 8T369
ARENTOFT, M: Review of research into the injection forging of turbular materials, 3A606
ARGE, E: Approximation of scattered data using smooth grid functions, 1A68
ARGENTO, C: Modeling the effective thermal conductivity of random packing of spheres through densification, 7A1247
ARGIROU, A: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423
- Predicting single sided natural ventilation rates in buildings, 4A1226
- Ground temperature below buildings, 4A1200
ARGOMEDO, H: Calibration function for notched cylindrical tension specimens, based on the common format equation: Numerical and experimental data analysis, 12A781
ARGROW, BM: Dense gas flow in minimum length nozzles, 1A1062
ARGYRIS, J: Exploration of Chaos, 4R3
- Nonlinear multidisciplinary design optimization using system identification and optimal control theory, 5A1000
- Postbuckling of composite laminates under compressive load and temperature, 5A523
- Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells, 8A18
- Steady-state nonlinear heat transfer in stiffened composite plates and shells by an exactly integrated facet triangular element, 8A1239
- Chaotic vibrations of a nonlinear viscoelastic beam, 9A182
ARGYROPOULOS, SA: Experimental investigation on natural and forced convection in liquid metals, 4A1148
- Mathematical modeling and experimental measurements of moving boundary problems associated with exothermic heat of mixing, 6A1186
ARIARATNAM, ST: Uniqueness in analysis of semirigid frames, 6A773
- Vibration mode localization in disordered cyclic structures - I: Single substructure mode, 7A130
- Vibration mode localization in disordered cyclic structures - II: Multiple substructure modes, 7A131
ARIEL, PD: Second solution of flow of viscoelastic fluid over a stretching sheet, 4A967
- Flow near a rotating disk: An approximate solution, 12A1035
ARIGO, MT: Sedimentation of a sphere through an elastic fluid - Part 1: Steady motion, 4A21
ARINC, F: Comparison of mathematical models for electric discharge machining, 10A1326
ARIOLI, G: Existence and numerical approximation of periodic motions of an infinite lattice of particles, 5A75
- Periodic motions of an infinite lattice of particles with nearest neighbor interaction, 8T70

ARISAWA, H: Flash pyrolysis of hydroxyl-terminated polybutadiene - I: Analysis and implications of the gaseous products, 12A1314
- Flash pyrolysis of hydroxyl-terminated polybutadiene - II: Implications of the kinetics to combustion of organic polymers, 12A1307
ARISTIZABAL-OCHOA, JD: Story stability and minimum bracing in RC framed structures: A general approach, 5A714
ARIZUMI, Y: Buckling modes of plate-girders curved in plan, 1A909
ARKHIPOV, VE: Modern methods for hardening machine parts, 5T679
ARKUN, Y: Stability of nonlinear polynomial ARMA models and their inverse, 10T393
ARMALY, BF: Heat Transfer in Turbulent Flows, HTD-Vol 318 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N32
- Effects of upstream wall heating on mixed convection in separated flows, 3A1057
- Measurements in buoyancy-opposing laminar flow over a vertical forward-facing step, 8A1068
- Convective heat transfer of rotating spheres and spheroids with non-uniform surface temperatures, 8A1101
ARMAN, B: Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, 1A1252
ARMANINI, A: Non-uniform sediment transport: Dynamics of the active layer, 4A924
ARMANIOS, EA: Free vibration analysis of anisotropic thin-walled closed-section beams, 3A121
ARMAREGO, EJA: Prediction of milling force coefficients from orthogonal cutting data, 11A598
ARMERO, F: Long-term dissipativity of time-stepping algorithms for an abstract evolution equation with applications to the incompressible MHD and Navier-Stokes equations, 12A1161
ARMINJON, M: Energy and equations of motion in a tentative theory of gravity with a privileged reference frame, 9A10
ARMISTEAD, JP: Influence of matrix properties on fragmentation test, 3A695
ARMSTRONG, CG: Hexahedral mesh generation by medial surface subdivision - Part I: Solids with convex edges, 2A31
ARMSTRONG, DM: Integrity assessment of masonry arch bridges using the dynamic stiffness technique, 6A769
- Modal analysis for masonry arch bridge spandrel wall separation identification, 6A160
ARMSTRONG, RC: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388
- Use of coupled birefringence and LDV studies of flow through a planar contraction to test constitutive equations for concentrated polymer solutions, 4A911
ARNAL, D: Linear stability theory applied to boundary layers, 6A979
ARNAUD, G: Viscous air flow pattern in the Stefan diffusion tube: Application to the mutual diffusion in a porous media, 1A1308
ARNAUD, L: Mechanical characterization of heterogeneous materials during setting, 1A860
ARNAUD, SB: Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316
ARNDT, REA: Preliminary investigation of the use of air injection to mitigate cavitation erosion, 5A873
ARNDT, V: Comparison measurements for selection of suitable photodetectors for use in Nd: YAG LDA systems, 10A1238
ARNEY, SC: Fabrication of a mechanical antireflection switch for fiber-to-the-home systems, 11T619
ARNOLD, DN: Asymptotic analysis of the boundary layer for the Reissner-Mindlin plate model, 9A580
ARNOLD, F: Coherence of the sound field in a circular duct with uniform mean flow, 7A317
ARNOLD, RG: Scaling bacterial filtration rates in different sized porous media, 10A1126
ARNOLD, SM: Driving force analysis in an infinite anisotropic plate with multiple crack interactions, 2A663
- Thermoelastic theory for the response of materials functionally graded in two directions, 6A1160
ARNOLD, WS: Failure envelopes for notched CSM laminates under biaxial loading, 2A647
- Damage tolerance of CSM laminates subject to low velocity oblique impacts, 7A869
ARNONE, A: Transition modeling effects on turbine rotor blade heat transfer predictions, 11A1062
ARNOTT, WP: Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers, 7A345
ARNULFI, GL: Velocity measurements downstream of the impellers in a multistage centrifugal blower, 5A1048
AROCKIASAMY, M: Local buckling of stiffened plates in offshore structures, 12A622
AROLA, D: Orthogonal cutting mechanisms of graphite-epoxy composite - Part I: Unidirectional laminate, 2A543
- Orthogonal cutting mechanisms of graphite-epoxy composite - Part II: Multi-directional laminate, 2A544
- Chip formation in orthogonal trimming of graphite-epoxy composite, 6A570
- Study of kerf characteristics in abrasive waterjet machining of graphite-epoxy composite, 10A714
ARON, M: Deformations with constant modified stretches describing the bending of rectangular blocks, 1A446
- Remarks concerning the flexure of a compressible nonlinearly elastic rectangular block, 4A428
ARORA, JS: Methods for finding feasible points in constrained optimization, 2A726
- Design sensitivity analysis in dynamic thermoviscoelasticity with implicit integration, 4A443
- Optimal control of HVAC systems using DDP and NLP techniques, 8A336
- Self-scaling implicit SQP method for large scale structural optimization, 11A777
ARORA, P: Economic parameters in the conceptual design optimization of an air-taxi aircraft, 1A870
ARORA, PR: Analytical and experimental evaluation of cold-working process for strain hardening materials, 7A537
ARPACI, A: Annular plate dampers attached to continuous systems, 10A234
ARPACI, VS: Microscales of turbulent combustion, 3A1212
- Temperature and soot concentration in a high soot density flame, 7A1256
ARQUILLA, R: Trapped-electron fluxes measured by international ultraviolet explorer and AE-8 model predictions, 7T305
ARQUIS, E: Early initiation of natural convection in an open porous layer due to the presence of solid conductive inclusions, 3A1070
ARRAMON, YP: Implementation of strain rate as a bone remodeling stimulus, 5A1365
ARREGUIN-CORTES, FI: Water quality model for continuous flow distribution networks, 10T1455
ARRELL, DJ: Misfit dislocations and anisotropic coarsening in superalloys, 3A1181
ARRIEUX, R: Off-axes forming-limit stress diagrams of an anisotropic steel sheet, 6A553
ARRIGO, DJ: Axially symmetric deformations of perfectly elastic compressible materials, 7A493
- Transformations and equation reductions in finite elasticity - II: Plane stress and axially symmetric deformations, 11A419
- Transformations and equation reductions in finite elasticity - I: Plane strain deformations, 11A418
ARROYO, G: Numerical study of an unsteady confined jet: Application to crossflow filtration, 9A1167
ARROYO, MP: Fast quantitative processing of particle image velocimetry photographs by a wholefield filtering technique, 4A1130
ARSECULARATNE, JA: Prediction of chip flow direction and cutting forces in oblique machining with nose radius tools, 2A546
- Optimal tool replacement strategy for computer numerical controlled turning centers, 4A640
- Nose radius oblique tool: Cutting force and built-up edge prediction, 8A554
ARSLAN, A: Mixed-mode fracture performance of fiber reinforced concrete under impact loading, 3A699
- Neural network approximation to the size effect in fracture of cementitious materials, 10A449
ARSLAN, AE: Integrated determination of sensitivity derivatives for an aeroelastic transonic wing, 7A1155
ARTAN, R: Nonlocal elastic half plane loaded by a concentrated force, 12A495
- Unsymmetrical rigid stamp on a nonlocal elastic half-plane, 12A498
ARTEMIEVA, IM: Dependence of transport properties of *in situ* rocks on pore fluid composition and temperature, 11A1320
ARTEMOV, MA: Static and kinematic relations of ideal plasticity under piecewise linear yield conditions, 6A396
- Linearized equations for kinematically-determinate problems, 10T534
ARTHUR, PD: Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, 11A712
ARTMANN, GM: Microscopic photometric quantification of stiffness and relaxation time of red blood cells in a flow chamber, 2T1297
ARTS, T: Investigation of the flow field downstream of a turbine trailing edge cooled nozzle guide vane, 11A1066
ARTYUKHIN, EA: Extreme Methods for Solving Ill-Posed Problems with Applications to Inverse Heat Transfer Problems, 10R32
ARTYUKHOV, EA: Integrally spherical gyro rotors, 3A89
ARULANANDAN, K: Modeling lateral sliding of slope due to liquefaction of sand layer, 3A584
ARULANANTHAM, M: Coupled radiative and conductive thermal transfers across transparent honeycomb insulation materials, 6A1141
ARUMUGAM, K: Boundary element method for elliptic differential equations with a small parameter, 1A52
ARUMUGAM, P: Experimental identification of linearized oil film coefficients of cylindrical and tilting pad bearings, 5A828
ARUNAKIRINATHAR, K: Further results for enhanced strain methods with isoparametric elements, 4A42
ARUTYUNOV, AV: State constraints in optimal control: The degeneracy phenomenon, 4T359
ARVANITIS, KG: Sampled-data minimum ∞ -norm regulation of linear continuous-time systems using multirate-output controllers, 4T357
ARYA, VK: Structurally compliant rocket engine combustion chamber - Experimental and analytical validation, 1A1345
- Efficient and accurate explicit integration algorithms with application to viscoplastic models, 6A406
- Large-displacement structural durability analyses of simple specimens emulating rocket chambers, 6A479
ASADA, H: Discrete event control of robotic assembly tasks, 5A378
- Discrete event modeling and trajectory planning of robotic assembly tasks, 5A379
- Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, 8A602
ASADA, Y: International Pressure Vessels and Piping Codes and Standards - Current Applications, Volume 1 - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N43
- Creep-fatigue damage assessment by subsequent fatigue straining, 11A652
ASAI, M: Boundary layer transition triggered by hairpin eddies at subcritical Reynolds numbers, 2A941
- Nonlinearity-coupled receptivity process generating a Tollmien-Schlichting wave behind a backward-facing step, 8A1040
ASAI, S: Adhesion between Ni/Fe lead frame and epoxy molding compounds in IC packages, 8A850
ASAKAMI, O: Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), 2A775
ASAKI, TJ: Free decay of shape oscillations of bubbles acoustically trapped in water and sea water, 4A1012
ASAKO, Y: Prediction of turbulent heat transfer in the entrance of an array of heated blocks using low-Reynolds-number κ-ε model, 1A1183
- Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, 3A1049
ASAMA, H: Development of a wireless communication system for a distributed autonomous robotic system (Japanese), 2A312
- Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
ASANO, F: Sound equilization in enclosures using modal reconstruction, 3A290
ASANO, T: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126
ASAOKA, K: Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, 6A448
ASARO, RJ: Through thickness texture gradients in rolled polycrystalline alloys, 8A549
ASCE , AEROSPACE DIV TASK COMMITTEE ON WIND TUNNEL STUD OF BLDGS AND STRUCT: Wind-tunnel studies of buildings and structures, 6A1060
ASCE TASK COMMITTEE ON DES CRITERIA FOR COMPOSITE STRUCT IN STEEL AND CONCRETE: Proposed specification and commentary for composite joists and composite trusses, 10A589
ASEEV, SM: State constraints in optimal control: The degeneracy phenomenon, 4T359
ASFIA, FJ: Experimental investigation of natural convection heat transfer in volumetrically-heated spherical segments, 8A1079
ASGHAR, S: Diffraction from an absorbing half-plane due to finite cylindrical source, 11T256
- Diffraction by an acoustically penetrable strip, 11A255
ASGHARIAN, B: Effect of fiber inertia on its orientation in a shear flow with application to lung dosimetry, 2A1204
ASH, HE: Wear of cross-linked polyethylene against itself, 9T771
- Proximal interphalangeal joint dimensions for the design of a surface replacement prosthesis, 12A1491
ASH, RL: Study of aircraft wake vortex behavior near the ground, 8A890
ASHENBERG, J: Effects of general atmospheric perturbations on small debris particle orbits, 5A236
- Satellite pitch dynamics in the elliptic problem of three bodies, 6A82
ASHER, JZB: Optimum guidance with a single uncertain time lag, 3A355
ASHFORD, SA: Oblique detonation wave engine performance prediction, 8A1297
ASHFORTH-FROST, S: Evaluating convective heat transfer coefficients using neural networks, 11A1160
ASHGRIZ, N: Spine-flux method for simulating free surface flows, 5T62
ASHIDA, F: Inverse thermoelastic problem in an isotropic plate associated with a piezoelectric ceramic plate, 8A1223
ASHIDA, H: Magnetohydrodynamic instability in axisymmetric spherical plasma with parallel flow to magnetic field, 2A1000
ASHIDA, Y: Application of neural network to processing of seismic reflection data (Japanese), 1A1378
ASHLEY, DB: Risk analysis methodology for corporate management options, 4A425
ASHLEY, H: Aeroelasticity, 12N5
ASHMAN, RB: Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
ASHMORE, JF: Finite element micromechanical modeling of the cochlea in 3D, 6A207
ASHOUR, AF: Effectiveness factor of concrete in continuous deep beams, 7A935
ASHOUR, SA: Prestressed high-strength concrete beams under torsion, 1A894
ASHRAF, R: Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, 12T1182
ASHRAFIUON, H: Development of virtual link method for the solution of hyper-redundant spatial robots, 11A380
ASHTON, JN: Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, 12A550
ASHURST, WT: Turbulent flame motion in a pancake chamber via a Lagrangian, 2D vortex dynamics simulation, 7A1338
- Stretch-affected flame propagation in vortical flows, 9A1314
ASHWIN, P: Weak coupling of strongly nonlinear, weakly dissipative identical oscillators, 3A103
ASIF KHAN, M: Mesh reduction using an angle criterion approach, 12A972
ASIMAKOPOULOS, D: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423
- Ground temperature below buildings, 4A1200
ASIMAKOPOULOS, DN: Study of the turbulent characteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, 1A1434
- Predicting single sided natural ventilation rates in buildings, 4A1226
ASIN, M: Numerical analysis of reinforced concrete continuous deep beams, 6A750
ASKAR ALTAY, G: Fundamental variational equations of discontinuous thermopiezoelectric fields, 12A637
ASKAR, A: Interior energy focusing within an elastoplastic material, 8A436
- Faster simulation methods for the nonstationary random vibrations of nonlinear MDOF systems, 9A115
ASKAR, H: Control by passive TMD of wind-induced nonlinear vibrations in cable stayed bridges, 10A211
ASKARI, E: Penetration into ductile metal targets with ridid spherical-nose rods, 2A167
ASKEGAARD, V: Applicability of normal and shear stress cells embedded in cohesionless materials, 5A552
ASKOVIC, R: Practical approximate turbulent boundary layer calculation into the divergent rectangular channel, 12A1098
ASLAN, N: Estimation of fatigue life for a carbon fiber-poly ether ether ketone hip joint prosthesis, 2A1314
- Numerical solutions of 1D MHD equations by a fluctuation approach, 9A1205
ASLANOV, VA: Rotation of an axisymmetric rigid body with biharmonic characteristic of the restoring torque, 6A79
ASMANI, M: Parameter of nonlinearity B/A in saccharide solutions (French), 11A240
ASMOLOV, ES: Dusty-gas flow in a laminar boundary layer over a blunt body, 6A937
ASNANI, NT: Vibration and damping analysis of multilayered conical shells, 5A139
- Vibration and damping analysis of fiber reinforced composite material conical shells, 12A176
ASO, T: Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), 4A818
ASOKANTHAN, SF: Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, 9A423
- Torsional vibration control of a flexible beam using laminated PVDF actuators, 12A835
ASPRAGATHOS, NA: Application of genetic algorithms to point-to-point motion of redundant manipulators, 7A439
- Collision-free continuous path control of manipulators using genetic algorithms, 8A365
ASSANELLI, AP: Performance of the QMITC element in 2D elastoplastic analyses, 5A461
ASSANIS, DN: Comparison of pressure-based and artificial compressibility methods for solving 3D steady incompressible viscous flows, 8A907
- Segregated prediction of 3D compressible subsonic fluid flows using collocated grids, 12A1067
ASSELIN, P: Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, 1A1128
ASSUMPACO, M: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304

ASTAF'EV, VI: Stress and damage distribution near the tip of a crack growing under creep, 6T678
ASTAFJEV, VI: Crack-tip asymptotic character of anti-plane stress and strain rate for linear fractional constitutive relations, 8A625
ASTAKHOV, VP: Design of ejectors for deep hole machining, 4A635
- Improvement of tool life in self-piloting drilling with external chip removal, 11A595
ASTARITA, G: Grain inertia and fluid viscosity dominated granular flow rheology: A thermodynamic analysis, 2A837
- Ice streams in Antarctica: Transverse instability of gravity-driven flow, 8A1299
- Generalized engineering Bernoulli equation (GEBE) and the first and second laws of thermodynamics for viscoelastic fluids, 11A852
ASTASHEV, VK: Experimental study of distributed systems with a large number of impact pairs, 3T766
ASTASHKEVICH, BM: Wear resistance of cast-iron piston rings produced by continuous-cyclic casting, 5A839
- Analysis of wear in cylinder-piston pairs of powerful interal combustion engines, 5A782
- Cast iron structures and stress effect of thermally treated cylinder sleeves on their wear, 5A783
ASTER, RC: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 2: Application to seismograms recorded by the Parkfield High Resolution Seismic Network, 12A1370
- Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 1: Techniques and application to seismograms recorded in the Anza seismic gap, 12A1369
ASTLEY, RJ: Wave propagation in catalytic converters: Formulation of the problem and FE solution scheme, 6A204
- FE mode-matching schemes for the exterior Helmholtz problem and their relationship to the FE-DtN approach, 10A377
- Transient wave envelope elements for wave problems, 10A272
ASTON, PJ: Nonlinear Mathematics and its Applications, 12N7
ASTROM, H: Analysis of a grease-lubricated roller bearing under arctic conditions, 1T1147
ASTUTI, P: Stability of a class of discrete event systems using Markov chains, 12T323
ATANACKOVIC, TM: Dynamics of plane motion of an elastic rod, 12A97
ATAPATTU, DD: Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, 2A392
ATCHLEY, AA: Experimental study of a thermoacoustic termination of a traveling-wave tube, 1A300
ATESHIAN, GA: Theoretical solution for the frictionless rolling contact of cylindrical biphasic articular cartilage layers, 2A1287
ATHERTON, DL: Anomalous magnetic source defect modeling, 6A701
- Discontinuity interaction and anomalous source models in through transmission eddy current testing, 6A699
- Longitudinal AC interactions with axial slits in steel pipes, 10A867
- Variation of the stress dependent magnetic flux leakage signal with defect depth and flux density, 12A804
ATHRE, K: New approach to evaluate the deflection of a thrust pad on an elastic support, 6T835
ATILGAN, AR: Space-time mixed FEs for rods, 11T16
ATIQULLAH, MM: Parallel processing in optimal structural design using simulated annealing, 4A794
ATKINS, AG: Strength and Fracture of Engineering Solids, Second Edition, 6R17
- Strength and Fracture of Engineering Solids, Second Edition, 8N21
- Toughness given by accumulated work in lefm: Possible implications for elastoplastic J_R "resistance curves", 2A616
- Mechanics of biological materials and structures: Natures lessons for the engineer, 2A719
ATKINSON, BW: Stability and wind shear effects on meso-scale cellular convection, 3T1346
- Orographic and stability effects on valley-side drainage flows, 4A1347
ATKINSON, C: Coating cracks in materials with general anisotropy, 1A826
- Nonlinear diffusion controlled particle growth: A variational and asymptotic approach, 5A1202
- Interaction between the wellbore and pre-existing fractures, 7A847
- Finite-length cracks and inclusions in poroelasticity, 11A690
- Influence of layer thickness on the stress intensity factor of a crack lying in an elastic (viscoelastic) layer embedded in a different elastic (viscoelastic) modium: Mode III analysis, 11A663
ATKINSON, GM: Attenuation and source parameters of earthquakes in the Cascadia region, 3A1312
- High-frequency shape of the source spectrum for earthquakes in eastern and western Canada, 11A1339
ATKINSON, J: Experimental study of a laminar jet in a double-diffusion environment, 5A949
ATKINSON, JD: Crack interaction, coalescence, and mixed-mode fracture mechanics, 8A670
- Crack interaction, coalescence and mixed-mode fracture mechanics, 10A814
- Further observations of early fatigue crack development, 11A644
ATKINSON, JF: Effect of turbulence on sediment deposition, 1A975
- Theoretical study of a laminar jet in a double-diffusion environment, 5A948
ATKINSON, JT: Use of carrier frequency shifting for the elimination of phase discontinuities in Fourier transform profilometry, 2A52
ATKINSON, JW: Compressive failure due to shear instability: Experimental investigation of waviness and correlation with analysis, 10A571
ATKINSON, KE: Study of the interphase region in carbon fiber-epoxy composites using dynamic mechanical thermal analysis, 11A475
ATKINSON, M: Further analysis of the size effect in indentation hardness tests of some metals, 8A691
ATKINSON, RM: Automated fault tree analysis for hydraulic systems, 12A421
ATKOCIUNAS, J: Quadratic programming for degenerate shakedown problems of bar structures, 8T705
ATLURI, SN: Simple method to follow post-buckling paths in FE analysis, 1A678
- Dynamic response of finite sized elastic runways subjected to moving loads: A coupled BEM-FEM approach, 2A123
- Asymptotic analysis of a subinterface crack in dissimilar orthotropic media, 4A741
- Finite element calculation of stress intensity factors for interfacial crack using virtual crack closure integral, 5A668
- Development of new spatially curved frame FE for crash analysis - Part 1: Formulation and validation, 5A192
- Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, 5A34
- Developments in the analysis of interacting cracks, 6A9
- Near-tip fields and intensity factors for interfacial cracks in dissimilar anisotropic piezoelectric media, 10A812
ATRENS, A: Influence of environmental variables on erosion-corrosion of carbon steel in spent liquor reheaters in Bayer plant, 4A683
ATTA, EH: Simulation investigation on dynamic pressure in glide angle control, 3A358
ATTANE, P: Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, 8A926
ATTAWAY, SW: Feasibility of using smoothed particle hydrodynamics for underwater explosion calculations, 6A226
ATTEN, P: Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, 8A926
ATTENBOROUGH, K: Propagation from a point source over a rough finite impedance boundary, 1A318
- Sound field within a rigid porous layer, 1A320
- Building acoustics, 5A277
ATTIA, A: Calculation hyperelastic response of finitely deformed elastic-viscoplastic materials, 6A401
ATTIA, AV: Modeling added compressibility of porosity and the thermomechanical response of wet porous rock with application to Mt Helen Tuff, 5A1304
ATTOU, A: Modelisation de la perte irreversible diphasique a travers une singularite (French), 2A929
ATWELL, DR: Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, 10A1014
ATWOOD, CA: Computation of a controlled store separation from a cavity, 1A1111
AU, FTK: Free vibration and stability analysis of shells by the isoparametric spline finite strip method, 5A11
- Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, 5A16
AU-YANG, MK: Flow-Induced Vibration - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N10
AUBARD, X: Modeling of the mechanical behavior of a 2D SiC-SiC composite at a meso-scale, 3A505
AUBERT, BH: Mass penalty technique to control the critical time increment in explicit dynamic FE analyses, 3A113
AUBERT, G: Necessary and sufficient conditions for isotropic rank-one convex functions in dimension 2, 1A450
AUBERT, S: Numerical simulations of a 3D nozzle, from inviscid to turbulent flows, 6A932
- New mixed Van Leer flux splitting for transonic viscous flow, 6T920
AUBRY, T: Influence of a nonionic surfactant on the rheology of a hydrophobically associating water soluble polymer, 11A854
AUCIELLO, NM: Natural frequencies of a cantilever Timoshenko beam with a tip mass, 1A136
- Free vibrations of tapered beams with flexible ends, 11A108
- Free vibrations of a linearly tapered cantilever beam with constraining springs and tip mass, 11T107
AUCLAIR, G: Relationship between inclusionary deposits and the wear of cutting tools, 6A800
AUDENINO, AL: Modeling the dynamic behavior of a motorcycle damper, 4A223
- Processing of simultaneous mechanical random response signals: Integration, differentiation and phase shifts correction, 12A331
AUDREAUS, U: Failure criteria for masonry panels under in-plane loading, 6A734
AUER, M: Three-dimensional convection driven by centrifugal buoyancy, 4A1162
AUER, MT: Determination of reaeration coefficients: Whole-lake approach, 9T1428
AUERSCH, L: Dynamic plate-soil interaction: Finite and infinite, flexible, and rigid plates on homogeneous layered or Winkler soil, 5A1314
AUGER, DD: Cushion form bearings for total knee joint replacement - Part 1: Design, friction, and lubrication, 2A1311
- Cushion form bearings for total knee joint replacement - Part 2: Wear and durability, 2A1312
- Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374
AUGER, FA: Method for the evaluation of tensile properties of skin equivalents, 1T1461
- Study of the tensile properties of living skin equivalents, 6A1358
AUGEREAU, B: Experimental study of periacetabular deformations before and after implantation of hip prostheses, 6A1313
AUGSBURG, M: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
AUGUSTI, G: Reliability and Optimization of Structural Systems, 10N24
- Introduction to computational models of damage dynamics under stochastic actions, 9A117
AULT, DA: Internal flowfield characteristics of a scramjet inlet at Mach 10, 6A1210
AUNE, AK: Structural capacity of the knee to anterior cruciate ligament failure during quadriceps contraction: An *in vivo* study in the rat, 12A1452
AUNGIER, RH: Fast, accurate real gas equation of state for fluid dynamic analysis applications, 1A1129
- Mean streamline aerodynamic performance analysis of centrifugal compressors, 5A1046
AURACHER, H: Stability of boiling systems, 12A1232
AUREGAN, Y: Snoring: Linear stability analysis and *in vitro* experiments, 5A1366
AURIAULT, J-L: Non-Gaussian diffusion modeling in composite porous media by homogenization: Tail effect, 4A1295
AURIAULT, JL: Macroscopic behavior of gas flow with adsorption through a fractured porous medium, 7T1359
AURIAULT, L: Time-domain impedance boundary conditions for computational aeroacoustics, 10A384
AURICCHIO, F: Generalized plasticity and shape-memory alloys, 6A395
AUSIAS, C: Optimization of the extrusion process for glass-fiber-reinforced tubes, 2A535
AUSLENDER, A: Sensitivity analysis for generalized linear-quadratic problems, 7T374
AUSLOOS, M: Growth models with internal competition, 9A11
AUSSEDAT, E: Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A837
- Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A838
AUSTIN, CD: Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, 11A183
AUTERI, FP: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
AUTRIC, M: Surface treatment of metallic samples by ultraviolet laser (French), 7A772
AUWETER-KURTZ, M: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024
- Mass spectrometric investigation of high enthalpy plasma flows, 3A993
AVAGLIANO, A: Torsional flow: Elastic instability in a finite domain, 10A1168
AVAKYAN, VA: Spectral model of the forming of a surface due to turning and the diagnostics of machine tool defects, 12T691
AVANCINI, JR: Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 2A937
- Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 3A932
AVEDISIAN, CT: Role of combustion on droplet transport in pressure-atomized spray flames, 11A1302
AVELLANEDA, M: Complete characterization of the possible bulk and shear moduli of planar polycrystals, 12A3
AVERILL, RC: Development of simple, robust FEs based on refined theories for thick laminated beams, 8A12
AVERKIOU, MA: Measurements of harmonic generation in a focused finite-amplitude sound beam, 5A293
AVGOUSTI, M: Stability of viscoelastic flow between eccentric rotating cylinders, 12A1145
AVILA, AF: Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), 4A1213
AVILES L, J: Finite element analysis of dam-reservoir systems using an exact far-boundary condition, 12A852
AVILES, J: Evaluation of interaction effects on the system period and the system damping due to foundation embedment and layer depth, 5A149
AVILES, R: Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, 2A131
- Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, 2A132
AVKHADIEV, FG: Estimates for critical Mach number under isoperimetric constraints, 4A986
AVRAAM, DG: Generalized relative permeability coefficients during steady-state two-phase flow in porous media, and correlation with the flow mechanisms, 4A1306
AVRASHI, J: High order gradient smoothing towards improved C^1 eigenvalues, 1A32
- Use of Boundary Strip Method for evaluation of the transverse mechanical properties of fibrous composites, 4A536
- Boundary strip method in elastostatics and potential equations, 7A515
- Damage tolerance of thick hybrid composite plate containing a local hemispherical damage, 7A850
AVVA, VS: Through-the-thickness tension strength of 3D braided composites, 8A661
AWANO, Y: Development of simple thermal fatigue test method using low-thermal expansion restraining holders (Japanese), 7A1291
AWANTO, C: Sizing procedure for photovoltaic refrigerating systems using a simple approach of the LLP calculation, 11A1235
AWAZU, K: Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), 3T436
AWERBUCH, J: Computational methodology to predict damage growth in unidirectional composites - I: Theoretical formulation and numerical implementation, 4A721
- Computational methodology to predict damage growth unidirectional composites - II: Case studies, 4A722
AWRUCH, AM: Objective cracking criterion for the analysis of concrete dams, 9A851
AWWAD, A: Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, 5A915
- Heat transfer of air-water two-phase flow in helicoidal pipes, 11A1169
AXELRAD, DR: Stochastic analysis of the fracture of solids with microcracks, 1A838
AXELSSON, K: Uncoupling of coupled flows in soil: A FEM, 1A700
AXELSSON, O: Iterative Solution Methods, 7N4
AXEN, N: Abrasive wear in intermediate mode of multiphase materials, 6A815
AXLER, C: Correcting trunk-muscle geometry obtained from MRI and CT scans of supine postures for use in standing postures, 8A1415
AY, ISHLINSKII: Influence of external and internal friction on the stability of vertical rotation of a rigid body, 7A86
AYAD, MM: Deformation of a superconducting cylindrical tube in a parallel magnetic field, 4A596
AYALA, A: Influence of temperature on the slip velocity of semidilute xanthan gum solutions, 4A881
AYARI, ML: Maximum strain theory for mixed mode crack propagation in anisotropic solids, 2A665
AYDOGAN, M: Stiffness-matrix formulation of beams with shear effect on elastic foundation, 1A594
- Numerical approach to define the rotational stiffness of a prefabricated connection and experimental study, 2A784
AYE, MM: High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
AYER, F: Updating linear elastic models with modal selective sensitivity, 1A845
- Iterative least-squares calculation for modal eigenvector sensitivity, 7A217
AYGUNES, H: Dynamic FE analysis of laminated beams with delamination cracks using contact-impact conditions, 5A144
AYRAULT, M: Turbulent concentration determination in gas flow using multiple CCD cameras, 5A1110
AYUB, M: Diffraction from an absorbing half-plane due to finite cylindrical source, 11T256
AYVAZ, Y: Earthquake analysis of simply supported reinforced concrete slabs, 4T1331

- Static and dynamic analysis of rectangular tanks by using the Lagrangian fluid FE, 8A785

AYYASWAMY, PS: Jet-flow scavenging of a curing oven - Part I: Flow visualization, 3A1006
- Jet-flow scavenging of a curing oven - Part II: Numerical simulation, 3A1192
- Evaporation and combustion of a slowly moving liquid fuel droplet: Higher-order theory, 7A1093
- Variational analysis of the squeezing flow of a yield stress fluid, 12A1014

AYYUB, BM: Numerical Methods for Engineers, 5N5
- Modeling uncertainty in prediction of pier scour, 6A886

AZAD, AK: Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505
- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573

AZAD, AKM: Control of flexible manipulator systems, 12A452

AZAD, RS: Structure of turbulence in an incipient-separating axisymmetric flow, 5A963

AZAIEZ, J: Numerical simulation of viscoelastic flows through a planar contraction, 8A405

AZARKHIN, A: Approximate model of surface ploughing by a rotating disc and other indenters, 10A988

AZARM, S: Multiobjective optimization of a leg mechanism with various spring configurations for force reduction, 12A974

AZEGAMI, H: Domain optimization analysis in linear elastic problems: Approach using traction method, 10A1023

AZETSU, A: Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, 6A1045

AZEVEDO, D: Influence of boundary-layer transition on measured incipient separation angles, 2A943

AZEVEDO, JLF: Code validation for high-speed flow simulation over satellite launch vehicle, 7A1083

AZEVEDO, LFA: Mass transfer from impinging swirling jets (Spanish), 7A1295

AZHDARI, A: Hoop stress intensity factor and crack-kinking in anisotropic brittle solids, 9A799
- Energy-release rate and crack kinking in anisotropic brittle solids, 12A761

AZIRHI, A: Dislocation dynamics by means of Lagrange formalism of irreversible processes: Complex fields and deformation processes, 4A468

AZIZ, A: Multidimensional steady conduction in convecting, radiating, and convecting-radiating fins and fin assemblies, 4A1197

AZIZ, KI: Robustness of a minimal observer synthesis algorithm, 11A265
- Output-driven minimal controller synthesis with an adaptive observer, 12T377

AZIZ, NM: Error estimate in Einstein's suspended sediment load method, 10A1059

AZIZINAMINI, A: Tension development length of reinforcing bars embedded in high-strength concrete, 2A766

AZPIAZU, W: Simple model for the fire resistance of axially loaded members: Comparison with experimental results, 11A769

AZUMA, K: Railgun pellet injection system for fusion experimental devices, 4T857

B

BA QUANG, NGUYEN: Dynamics of a powered disk in clay soil, 10A659

BA, KM: Semi-arid zones and their hydrological modeling: Rainfall-runoff (Spanish), 4T1340

BAADE, PK: Effects of blade design on centrifugal fan noise and performance, 1A285

BAAIJENS, FPT: Viscoelastic flow past a confined cylinder of a polyisobutylene solution, 4A912

BAAIJENS, HPW: Viscoelastic flow past a confined cylinder of a polyisobutylene solution, 4A912

BAAKLINI, GY: Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, 5A634

BAARDE, RO: Stress-strain properties of coir fiber reinforced cement composite in axial compression, 1A547

BABAD, HR: Infinite-horizon multistage dynamic optimization problem, 2T262

BABAEV, AE: Excitation by nonstationary electric signals of a thin-walled radially-polarized piezoceramic cylinder (Russian), 3A567
- Operation of the system of two parallel multi-mode cylindrical piezo-transducers under nonstationary electrical excitation (Russian), 7A416
- Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, 7A235
- Interrelation with cylindrical cavity of nonstationary spherical waves radiated by the interior source, 7A236
- Use of transition functions in the problems of nonstationary hydroelasticity for the systems of cylindrical shells, 7A290
- Radiation of nonstationary acoustic waves of radially polarized cylindrical piezotransducer (Russian), 7A334
- Excitation of a thick-walled piezoceramic sphere by nonstationary electric pulses, 10T643

BABAYAN, KS: Spectral model of the forming of a surface due to turning and the diagnostics of machine tool defects, 12T691

BABESHKO, ME: Thermoviscoelastoplastic axisymmetrical stress-strained state of laminar shells of isotropic and orthotropic materials, 7A630

BABESHKO, VA: Application of the factorization method to some hydroelasticity problems, 5A395

BABIC, M: Tribological behavior of solid lubricant coatings, 6T828

BABICH, DV: Effect of fissureness of material on stability of cylindrical shells compressed in the axial direction (Russian), 7A665
- Consideration of material damage in the problems of shells stability, 7T664

BABITSKY, V: Relieved control in cyclic systems, 2A283

BABKIN, VS: Decomposition flame of hydrazine in inert porous media, 3A1231

BABOO, SN: Convergence of finite difference methods for a class of two-point boundary value problems with periodic boundary conditions, 7T46

BABU, S: Inelastic strain concentration in directionally solidified materials, 3A473

BABU, SS: Error analysis in applying a BEM for 3D steady state potential problems, 3A44
- Finite element analysis of fluid-structure interaction effect on liquid retaining structures due to sloshing, 10A321

BABUS'HAQ, RF: Integrated thermochemical heat-pump-energy-store, 2A1149

BABUSKA, I: Model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals, 2A25
- Dispersion analysis and error estimation of Galerkin FEMs for the Helmholtz equation, 4A326
- Posteriori estimation and adaptive control of the pollution error in the h-version of the FEM, 5A31
- Generalized FEM for solving the Helmholtz equation in 2D with minimal pollution, 5A289
- Approximate optimal points for polynomial interpolation of real functions in an interval and in a triangle, 5A59
- Computer-based proof of the existence of superconvergence points in the FEM: Superconvergence of the derivatives in FE solutions of Laplace's, Poisson's and the elasticity equations, 9A51
- Convergence analysis of a p-version FEM for 1D elastoplasticity problem with constitutive laws based on the gauge function method, 10A562

BABUSKA, V: Substructure-based controller design method for flexible structures, 3A340

BACA, A: Precise determination of anthropometric dimensions by means of image processing methods for estimating human body segment parameter values, 8A1446

BACCI, A: Approximate explicit solution for the local torsion of an elastic layer, 7A502

BACCIOTTI, A: Generation of stable limit cycles in controllable linear systems, 12T112

BACCOUCHE, MR: Shear response of dowel reinforced SIFCON, 3A784

BACH JR, RE: Parameter identification and modeling of longitudinal aerodynamics, 1A264
- Wingrove parameter: A new turbulence metric, 9A1199

BACH, H: Properties of Optical Glass - Schott Series on Glass and Glass Ceramics, 2N55

BACHE, GE: Experimental and computational investigation of flow in a radial inlet of an industrial pipeline centrifugal compressor, 11A1052

BACHER, W: Microvalves with bistable buckled polymer diaphragms, 10T462

BACHNER, SD: Identification of a nonlinear aerodynamic model of the F-14 aircraft, 4T336

BACHRACH, BI: On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, 11A343
- On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, 11A342

BACHRACH, NM: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371

BACIU, G: Graph-theoretic modeling of particle-mass and constrained rigid body systems, 2T78

BACK, LH: Flow-pressure drop measurement and calculation in a tapered femoral artery of a dog, 6A1365
- Flow rate-pressure drop relation in coronary angioplasty: Catheter obstruction effect, 9A1449
- Flow measurements in an aortocoronary bypass graft casting, 11A1471

BACK, MR: Flow rate-pressure drop relation in coronary angioplasty: Catheter obstruction effect, 9A1449

BACK, N: Analysis of design methodologies towards developing a CAD system to computerize the product design conception stage (Spanish), 8A826
- Analysis of the structural static response, eigenvalues and eigenvectors of manipulators with flexible joints and links (Spanish), 10A478

BACZYNSKI, ZF: Comparison of solutions in a frame-work of different plate theories, 1A623
- Modeling of nonstationary heat conduction problems in microperiodic composites, 10A1289

BADA, MB: Laminar thermal convection in a vertical slot, 3A1039

BADAR, MA: Thermoeconomics of a sensible heat, thermal energy storage system, 3A1165

BADCOCK, KJ: Preconditioner for steady 2D turbulent flow simulation, 6A1001
- Implicit time-stepping methods for the Navier-Stokes equations, 8A923

BADCOCK, RA: Intensity-based optical fiber sensor for fatigue damage detection in advanced fiber-reinforced composites, 7A806

BADE SHRESTHA, SO: Thermodynamic analysis of the rich flammability limits of fuel-diluent mixtures in air, 5A1122

BADER, MG: Materials selection, preliminary design and sizing for composite laminates, 4T508
- Measurement techniques and effects on in-plane permeability of woven cloths in resin transfer molding, 9A723

BADHRINATH, K: Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints, 12A807

BADHWAR, GD: Analysis of the Solwind fragmentation event using theory and computations, 7A986

BADICS, Z: Accurate probe-response calculation in eddy current NDE by FEM, 9A43

BADIE, SS: Quadratic order elastic foundation FE, 4A10

BADIEY, M: Deterministic and stochastic analysis of acoustic plane-wave reflection from inhomogeneous porous seafloor, 7A339

BADIR, AM: Free vibration analysis of anisotropic thin-walled closed-section beams, 3A121

BADMUS, OO: Simplified approach for control of rotating stall - Part I: Theoretical development, 4A1112
- Simplified approach for control of rotating stall - Part 2: Experimental results, 4A1121
- Control-oriented high-frequency turbomachinery modeling: General 1D model development, 5A1023

BADONI, D: Nonlinear response of single piles under lateral inertial and seismic loads, 5A1322

BADR, HM: Viscous oscillatory flow about a circular cylinder at small to moderate Stroukal number, 4A1047
- Symmetrical flow past an accelerated circular cylinder, 8A963

BADR, OA: Environmental hazards due to rupture of a liquefied propane pipeline, 8A1398
- Investigation of the lean operational limits of gas-fueled spark ignition engines, 12A1329

BADRINARAYANAN, S: Sensitivity analysis for the optimal design of metal-forming processes, 10A708

BADRIYHA, BN: Modeling of Bioactive Carbon Adsorbers: A hybrid weighted residual-finite difference numerical technique, 9A92

BADULIN, SI: Two approaches to the problem of instability of short-crested water waves, 4A268

BADUR, I: Remarks on Osborne Reynolds' "The submechanics of the universe", 9A13

BADUR, J: Can the Zaremba relaxation model be considered correct, 3A924
- Remarks on the structure of evolution equations, 4A1135

BADV, K: Chloride migration through clayey silt underlain by fine sand or silt, 6A1183

BAE, CHA-HURN: Fabrication and mechanical properties of 2024 Al-SiC_p composites by mechanical alloying, 7A761

BAE, GWI-NAM: Measurements and control of particle deposition velocity on a horizontal wafer with thermophoretic effect, 2A1207

BAE, K-Y: Study of the effect of pre-straining on angular distortion in one-pass fillet welding incorporating large deformation theory, 2A331
- Analysis of thermal stress and distortion in bead-on-plate welding using laminated isotropic plate theory, 12A1287

BAEDER, JD: Evaluation of a Navier-Stokes analysis method for hover performance prediction, 7A982
- Aerodynamic and acoustic calculations of transonic nonlifting hovering rotors, 10A1217

BAEK, KH: Natural algorithms for choosing source locations in active control systems, 2A229

BAEK, SEUNG WOOK: Radiative ignition of volatile gases on a vertical fuel plate, 7A1258
- Numerical analysis of conduction, convection, and radiation in a gradually expanding channel, 12A1254

BAEK, SW: Thermal development of radiatively active pipe flow with nonaxisymmetric circumferential convective heat loss, 12A1255

BAER, DS: Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, 8A1052

BAERT, K: CMOS foundry-based micromachining, 10T452
- Multi-axial strain gage with octagonal shape, 10T466

BAESU, E: Symmetry and coaxiality of pertinent stretch and stress tensors during non-proportional loading at finite plastic strain, 9A505

BAGAI, A: Rotor free-wake modeling using a pseudo-implicit technique including comparisons with experimental data, 1A1137
- Rotor free-wake modeling using a pseudoimplicit relaxation algorithm, 5A1069

BAGCHI, A: Stability analysis of axisymmetric thin shells, 8A515

BAGDOEV, AG: Penetration of a thin, sharp-pointed rigid indentor into a transversally isotropic medium, 7T528

BAGHDADI, ZA: Soil modification by cement kiln dust, 3A489

BAGI, K: Stress and strain in granular assemblies, 10A1407

BAGINSKI, F: Modeling nonaxisymmetric off-design shapes of large scientific balloons, 7A641

BAGLEY, EB: Shear-thickening and flow-induced structure in a system of DMSO containing waxy maize starch, 4A889
- Effects of thermomechanical processing on viscosity behavior of corn starches, 4A890

BAGLEY, RL: Renewal theory of inelasticity, 1A497

BAGNO, FM: Effect of liquid viscosity on the waves in elastic layer preliminarily strained with compression and interacting with liquid medium (Russian), 3A219

BAGUL, AD: Sizing of a stand-alone hybrid wind-photovoltaic system using a three-event probability density approximation, 11A1432

BAHAI, H: Factorial design approach to investigate the effect of geometry in drill string screw connectors, 1A947

BAHAR, E: Radar scatter cross sections for 2D random rough surfaces: Full wave solutions and comparisons with experiments, 8A178
- Transmission scatter cross sections across 2D random rough surfaces: Full wave solutions and comparison with numerical results, 8A180

BAHEI-EL-DIN, YA: Finite element analysis of viscoplastic composites materials and structures, 8A15

BAHER, C: Speckle-photography study of nuclear-waste vault deformations, 10A848

BAHETI, SK: Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, 8A821

BAHNG, GUN-WOONG: Metallographic study on rolling contact fatigue of 0.44%C - 1.71% Mn induction-hardened bearing steels, 10A981

BAHR, GK: Space vehicle propulsion systems: Environmental hazards of low earth orbit-lunar domain, 5A241

BAHR, HV: Allowing higher speeds on existing tracks: Design considerations of the X2000 train for Swedish State Railways, 6A161

BAHUGUNA, S: Micro and macromechanical aspects of the behavior of concrete materials with special emphasis on energy dissipation and on cyclic creep, 9A772

BAI , YILONG: Experimental and theoretical study on numerical density evolution of short fatigue cracks, 3A650

BAI, HONGBAI: Mechanism of IRCF (Internal resonance due to closely spaced natural frequencies) (Chinese), 4A97

BAI, M: Modeling of miscible flow in multi-component porous media, 4A1294
- Experimental and numerical simulation of solute transport in heterogeneous porous media, 8A1310
- Contaminant transport in nonisothermal fractured porous media, 10A1413

BAI, MINGSIAN R: Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, 3A307
- Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, 5A234
- Active noise control of enclosed harmonic fields by using BEM-based optimization techniques, 12A292

BAI, MINGWU: Tribological properties of SiC whisker and molybdenum particle-reinforced aluminum matrix composites under lubrication, 12A914
- Reciprocal sliding wear of SiC particle reinforced Al-Cu aluminum matrix composites against stainless steel, high speed tool steel and ceramics - I: Tribological properties and construction of tribomaps, 12A909
- Reciprocal sliding wear of SiC particle-reinforced Al-Cu aluminium matrix composites against stainless steel, high speed tool steel and ceramics - II: Wear mechanisms, 12A908
- Wear of 2024 Al-Mo-SiC composites under lubrication, 12A920

BAI, QUISHI: Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), 9A826

BAI, R: Parallel pipelining, 5A942

BAI, SL: Interfacial properties of microwave cured composites, 1A541
- In situ study of short-beam shear tests for composite materials, 7A596

BAI, XUE-SONG: Sensitivity study of turbulent reacting flow modeling in gas turbine combustors, 3A1213

BAI, YL: Stochastic jump and deterministic dynamics model of impact failure evolution with rate effect, 8A604

BAI, Z: Load-deformation relations in second-order elasticity, 1A455

BAI, ZHONGZHI: Class of hybrid algebraic multilevel preconditioning methods, 8A29

BAI, ZZ: Models of asynchronous parallel nonlinear multisplitting relaxed iterations, 6A61

BAIKOV, VA: Nonlinear dynamics of coupled chains of particles, 4A165

BAILEY, AC: Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, 2A792

BAILEY, C: Solution of the elastic and visco-plastic constitutive equations: A finite volume approach, 4A455

BAILEY, CG: Lateral-torsional buckling of unrestrained steel beam in fire, 7A954

BAILEY, DH: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9

BAILEY, DM: Nail solution: Adhesion at interfaces, 11A847

BAILEY, DW: Detailed measurements on a modern combustor dump diffuser system, 5A1273

BAILEY, JA: Flow instability in the torsional straining of commercially pure titanium, 5A441

BAILEY, RS: Fracture toughness and impact behavior of glass-fiber-reinforced polyamide 6,6 injection moldings, 5A647

BAILLEUL, J-L: Determination of temperature variable properties of composite materials: Methodology and experimental results, 10A582

BAILLIE, C: Friction and wear mechanisms of a thermoplastic composite GF/PA6 subjected to different thermal histories, 12A887

BAILLIE, DC: Comparison of autoregressive modeling techniques for fault diagnosis of rolling element bearings, 6A703

BAILLIE, S: Linear quadratic optimal model-following control of a helicopter in hover, 11A290

BAILLOT, F: Premixed and diffusion flames in a centrifuge, 1A1319

BAILON, J-P: Dislocation structures near the fatigue crack tip in copper, 1A751

BAIN, DB: Mixing analysis of axially opposed rows of jets injected into confined crossflow, 2A966

BAINES, K: Mathematical modeling of the internal bending moment at the top roll contact in multipass four-roll thin-plate bending, 3A600

BAINES, MJ: Moving Finite Elements, 1R1

- Numerical Methods for Fluid Dynamics 5, 7N25

BAINES, PG: Mechanics of the Tollmien-Schlichting wave, 10A1136

BAINS, EM: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395

BAINS, RS: Three-dimensional thermoelastic analysis of the straight section of a PWR hot leg containing a hot spot using BEM, 2A1270

BAIR, S: Normal stress difference in liquid lubricants sheared under high pressure, 9A1247

- EHD inlet zone analysis incorporating the second Newtonian, 10A1224

BAIRD, DG: Evaluation of the Doi-Ohta theory for an immiscible polymer blend, 6A864

BAIRD, GE: Propagation of elastic waves through a layered poroelastic medium, 12A223

BAJ, M: Hydrostatic pressure study of MBE CdMnTe doped with bromine, 6A517

BAJAJ, AK: Advances in Nonlinear Dynamics: Methods and Applications, 5N9

- Resonant dynamics of an autoparametric system: A study using higher-order averaging, 8A160

- Slow-transition across instabilities in nonlinear dissipative systems, 11A97

BAJAJ, PN: Flow-reactor mass-spectrometer investigation of the initiation steps of the $O(^3P)$ atom reaction with benzene, 9A1334

BAJENITCHEV, A: Numerical procedure for a nonlinear elastic problem for incompressible material based on a perturbation method, 12A502

BAJER, C: Numerical modeling of thermal waves via internal state variable approach, 6A1168

BAJER, CZ: Kinematic approach to dynamic contact problems - The geometrical soft way method, 1A464

BAJPAI, KK: Experimental study of crack-induced dynamic damage growth in fiber composites, 6A663

BAK, R: Fast algorithm for hidden faces removal with application to animated geometrical modelers, 1A432

BAK-MISIUK, J: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283

BAKER , AJ: Taylor weak statement FEMs for computational fluid dynamics, 1A26

BAKER, A: Angular response properties of retroreflective screen materials used in wide-field shadowgraphy, 7A1194

BAKER, AJ: Incompressible computational fluid dynamics and the continuity-constraint method for the 3D Navier-Stokes equations, 8A909

- Weak statement perturbation CFD algorithm with high-order phase accuracy for hyperbolic problems, 12A1065

BAKER, AR: Determination of all elastic constants of orthotropic plate specimens from group velocity data, 6T693

BAKER, CJ: Changes to wave parameters in the surf zone due to wind effects (French), 8A199

BAKER, CS: Versatile fluid-mixing device for cell and tissue microgravity research applications, 7A306

BAKER, DN: Charged-particle telescope experiment on Clementine, 5A739

BAKER, G: Well-posed numerical method to track isolated conformal map singularities in Hele-Shaw flow, 1T1011

- Variation of fracture energies G_{JC}, γ_{wof}, J_{IC} with specimen size and pre-fired temperature in a low cement refractory, 2A639

- Computational techniques for nonlinear dynamics of continuous systems, 3A146

BAKER, HJ: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562

BAKER, I: Dry sliding wear of NiAl, 10A971

BAKER, MJ: Reliability analysis for highway bridge deck assessment, 3A802

BAKER, SD: Thunderstorm III 4-megahertz burst-mode data acquisition system, 7A304

BAKER, T: Shock and vibration of solder bumped flip chip on organic coated copper boards, 12A986

BAKER, TJ: Effects of short cracks on fatigue life calculations, 8A573

- Comparison of short and long fatigue crack growth in steel, 8A580

BAKER, TN: Prediction of laser transformation hardening depth using a line source model, 1A738

- Wear behavior of AA6061 aluminium alloy and its composites, 3A829

BAKER, WE: Split Hopkinson bar technique to evaluate the performance of accelerometers, 12A128

BAKER, WP: Viscoclastic material response with a fractional-derivative constitutive model, 8A402

- Numerical application of fractional derivative model constitutive relations for viscoelastic materials, 12A510

BAKIER, AY: Mixed convection boundary layer flow on a continuous flat plate with variable viscosity, 8A1094

- Thermal radiation effect on mixed convection from horizontal surfaces in saturated porous media, 12A1349

BAKKER, A: Constraint Effects in Fracture Theory and Applications: Second Volume - STP 1244, 5N22

- Evaluation of elastic fracture mechanics parameters for bend specimens, 2A613

BAKLANOV, AM: Design and testing of a photochemical aerosol generator for calibrating aerosol measuring instruments in the submicrometer region, 12A1339

BAKOS, D: Effect of treatment conditions on the mode I delamination fracture toughness of sandwich structures, 6A662

- Interlaminar fracture behavior of sandwich structures, 7A834

BAKR, E: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459

BAKUCKAS JR, JG: Computational methodology to predict damage growth in unidirectional composites - I: Theoretical formulation and numerical implementation, 4A721

- Computational methodology to predict damage growth unidirectional composites - II: Case studies, 4A722

BAKUCKAS, JG: Thermal residual stresses in the analysis of fiber-bridged matrix crack growth in titanium matrix composites, 11A1253

BALAAM, P: Investigation of stabilized resonant cavity microwave plasmas for propulsion, 2A1199

BALABAN, S: Three-dimensional LDA measurements of the flow field inside an axial gas turbine rotor, 9A1246

BALABANOV, VO: Topology optimization of transport wing internal structure, 7T1161

BALACHANDAR, S: High performance spectral simulation of turbulent flows in massively parallel machines with distributed memory, 3A974

- Direct numerical simulation of flow past elliptic cylinders, 9T1078

BALACHANDRAN, K: Null controllability of nonlinear infinite delay systems with time varying multiple delays in control, 10A389

BALAGUER, C: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429

BALAGURU, P: Properties of fiber reinforced structural lightweight concrete, 7A941

BALAJI, C: Natural convection in L corners with surface radiation and conduction, 8T1184

- Numerical analysis of a cavity radiator with mutual interaction, 11A1218

BALAKRISHNA, C: Shape design sensitivity analysis via material derivative: Adjoint variable technique for 3D and 2D curved BEs, 1A879

BALAKRISHNAN, AR: Nucleate pool boiling heat transfer of pure liquids at low to moderate heat fluxes, 11A1164

BALAKRISHNAN, AV: Generalization of the Wittrick-Williams formula for counting modes of flexible structures, 4T109

BALAKRISHNAN, G: Relationships between bifurcation and numerical analyses for ignition of hydrogen-air diffusion flames, 11A1273

BALAKRISHNAN, K: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595

BALAKRISHNAN, MV: Finite element analysis of substation composite insulators, 7A20

BALAKRISHNAN, S: Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, 7A562

BALAKRISHNAN, SN: Analytical missile guidance laws with a time-varying transformation, 8T306

- Adaptive-critic-based neural networks for aircraft optimal control, 12A399

BALAMURUGAN, V: Nonlinear dynamic instability of laminated composite plates using FEM, 11A554

BALAN, R: Horseshoes and nonintegrability in the restricted case of a spinless axisymmetric rigid body in a central gravitational field, 10A333

BALAN, T: Optimal design for non-steady-state metal forming processes - II: Application of shape optimization in forging, 5A567

BALANDIN, DV: Optimal damping of the oscillations of elastic bodies, 4A144

BALANOV, ZI: Buckling of a thin elastic plate, 2A491

BALARAS, CA: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423

BALARAS, E: Two-layer approximate boundary conditions for large-eddy simulations, 11A997

BALAS, GJ: Optimally scaled H_∞ full information control synthesis with real uncertainty, 12T355

BALASUBRAMANIAM, AS: Developments in Deep Foundations and Ground Improvement-Schemes - Proc of Symp, Bangkok, Thailand, 1994, 12N22

BALASUBRAMANIAM, K: Plate wave flow patterns for ply orientation imaging in reinforced composites, 9A267

BALASUBRAMANIAM, R: Finite element evaluation of elasto-plastic accommodation energies during solid state transformations: Coherent, spherical precipitate in finite matrix, 6A15

BALASUBRAMANIAN, R: Structural modeling of the wall effects of Lorentz force, 12T1159

BALASUBRAMANIAN, S: Single crystal and polycrystal elastoviscoplasticity: Application to earing in cup drawing of FCC materials, 7A534

- Nonlinear oscillator model for vortex shedding from cylinders and cones in uniform and shear flows, 11A969

BALASUBRAMANIYAN, TM: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595

BALATKA, K: Experimental investigation of flow in an annular-conical passage, 5A944

- Flow in an annular-conical passage, 7A1100

BALAZINSKI, M: Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, 12A984

BALCHEN, JG: Mathematical modeling of a rotary hearth coke calciner, 4A384

BALDACCHINO, L: Implementation of some higher-order convection schemes on non-uniform grids, 5A69

BALDO, ED: Reducing the plunge cylindrical grinding time using acoustic emission monitoring, 7A754

BALDOCK, TE: Extreme waves in shallow and intermediate water depths, 12T242

BALDOUKAS, AK: Finite-element simulation of axisymmetric preforms in precision forging at elevated temperatures, 10A701

- Simulation of the precision forging of bevel gears using implicit and explicit FE techniques, 10A702

BALDWIN, JD: Strain-based fatigue analysis of wheelchairs on a double roller fatigue machine, 4A1374

BALENDRA, R: Pressured-assisted injection forging of thick-walled tubes, 1A712

- Review of research into the injection forging of turbular materials, 3A606

- Animation of FE models of metal forming processes, 5A561

BALENDRA, T: Earthquake-resistant steel frames with energy dissipating knee elements, 1A1394

- Building response due to subway train traffic, 3A149

- Effectiveness of tuned liquid column dampers for vibration control of towers, 4A215

BALENDRAN, B: Bounds on elastic moduli of composites, 3A481

BALES, MJ: Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, 4A1202

BALK, AM: Suppression of short waves by a train of long waves, 11A197

BALKAN, H: Biaxial compression of a thin layer with circular debonding over a substrate, 1A552

BALKAN, T: Moment limiter for mobile cranes, 3A375

BALL, A: Review of the performance of engineering materials under prevalent tribological and wear situations in South African industries, 8T789

BALL, DJ: Unsteady surface-velocity field measurement using particle tracking velocimetry, 2A1064

BALL, GJ: Free-Lagrange method for unsteady compressible flow: Simulation of a confined cylindrical blast wave, 7T297

BALL, N: Self-organizing neural networks for adaptive control, 9A407

BALL, RC: Three-dimensional stability analysis of planar straight cracks propagating quasistatically under type I loading, 2A667

BALLAL, DR: Study of flame stability in a step swirl combustor, 10A1365

BALLANDRAS, S: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347

BALLARD, P: Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, 4A466

BALLARINI, R: K-dominance for a pressurized Griffith crack, 1T781

- Near-tip dual-length scale mechanics of mode I cracking in laminate brittle matrix composites, 1A817

- Crack very close to a bimaterial interface, 5A619

BALLES, DN: Low-cost NO_x reduction retrofit for pump scavenged compressor engines, 5A1066

BALLESTER, JM: Detailed measurements in heavy oil and oil-water emulsion flames, 3A1226

BALLING, RJ: Optimization of coupled systems: A critical overview of approaches, 6T290

BALLMANN, J: Numerical simulation of shock waves in linear-elastic plates with curvilinear boundaries and material interfaces, 2A161

- Existence and uniqueness of solutions by the covering domain method in linear elastostatics, 8A379

BALLO, I: Power requirement of active vibration control systems, 3A377

BALMES, E: Optimal Ritz vectors for component mode synthesis using the singular value decomposition, 11A138

BALMFORTH, NJ: Solitary waves and homoclinic orbits, 2A171

BALOCCO, C: Measuring thermal properties with the parallel wire method: A comparison of mathematical models, 10A1298

BALOCH, A: Simulation of highly elastic complex flows, 2A363

- Two- and three-dimensional expansion flows, 4A1045

BALOOCH, M: Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, 9A1441

BALOW, FA: Flow oscillation over an airfoil near stall, 6T1013

BALSA, TF: Note on the wave action density of a viscous instability mode on a laminar free-shear flow, 4A1054

BALSARA, DS: Notes on the eigensystem of magnetohydrodynamics, 7A1137

BALSTER, WJ: Surface fouling in aviation fuels: An isothermal chemical study, 10A1375

BALTES, H: Two-dimensional integrated gas flow sensors by CMOS IC technology, 3T396

BALTOV, AI: Approach to the modeling of contact friction during rolling, 3A596

- Numerical analysis of steady-state rolling problem, 4T632

- Variational approach of a problem for the non-steady rolling process, 4T633

BALUCH, MH: Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, 4A41

- Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505

- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573

BALUEVA, AV: Method for crack kinetics calculations in a medium with volume gas evolution, 6A682

- Qualitative estimates of gas-filling crack growth, 10A769

BALZER, F: Pool boiling heat transfer coefficients for binary mixtures of acetone, isopropanol, and water, 1A1228

BAMBILL, DV: Longitudinal vibrations of a prismatic bar suddenly subjected to a tensile load at one end when the other is elastically restrained, 5T121

- First-mode approximations of mass and compliance of a circular plate elastically restrained against rotation along the edge, 7A175

- Non-harmonic Fourier expansions in the case of a cantilever beam with a mass-spring combination at the free end, 10T152

- Note on transverse, axisymmetric vibrations of annular plates of non-uniform thickness, 10T176

BANAS, K: Entropy controlled adaptive FE simulations for compressible gas flow, 11T922

BANAVAR, JR: Continuum deductions from molecular hydrodynamics, 2A914

BANDA, SS: Observer-based compensators for fixed-order H_∞ control, 12A353

BANDELLI, R: Unsteady motions of fluids of second grade, 3A961

- Start-up flows of second grade fluids in domains with one finite dimension, 5A882

BANDERAS, AG: Limnology, a concept review, 10T1113
BANDYOPADHYAY, JN: Free vibration of shallow shells, 2A112
- Finite element free vibration analysis of doubly-curved laminated composite shells, 10A184
BANDYOPADHYAY, PR: Rotating gas-liquid flows in finite cylinders: Sensitivity of standing vortices to end effects, 12A1088
- Structural modeling of the wall effects of Lorentz force, 12T1159
BANDYOPADYAY, KK: Rotatory and horizontal vibrations of a circular surface footing on a saturated elastic half-space, 3A107
BANEK, T: Filtering of the noise generated by shaft neck contour deformations in monitoring systems, 10T219
BANERJEA, S: Interface wave diffraction by a thin vertical barrier submerged in the lower fluid, 5A207
- Scattering of water waves by a vertical wall with gaps, 11A199
BANERJEE, B: Resonant dynamics of an autoparametric system: A study using higher-order averaging, 8A160
BANERJEE, D: Numerical analysis of neck formation in tensile specimens, 6A552
BANERJEE, JR: Exact dynamic stiffness matrix of a bending-torsion coupled beam including warping, 9A185
- Dynamic response of an axially loaded bending-torsion coupled beam, 11A105
- Optimum design of bending-torsion coupled beams with frequency or aeroelastic constraints, 12A823
BANERJEE, MM: Large deflections of thin elastic plates of arbitrary shape placed on elastic foundation under both uniform load and a concentrated load at the center: A simplified approach, 6A476
BANERJEE, P: Application of object - oriented design concepts in CIM systems layout, 2A333
- Infrared sensing for on-line weld geometry monitoring and control, 5A385
BANERJEE, RK: Flow-pressure drop measurement and calculation in a tapered femoral artery of a dog, 6A1365
BANERJEE, S: Modeling and simulation of PV-powered intermittent load systems by bond graph technique, 4A1357
- K-calibration and standardization of ceramic specimen, 10A837
BANES, AJ: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
BANEY, JM: Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite, 9A822
BANG, H: Analytical solution for dynamic analysis of a flexible L-shaped structure, 6T85
BANG, HYOCHOONG: Robust closed-loop control design for spacecraft slew maneuver using thrusters, 4A379
BANGALORE, A: Numerical analysis of aerodynamic performance of rotors with loading-edge slats, 10A1215
BANICHUK, NV: Optimal orientation of orthotropic materials for plates designed against buckling, 6A720
- Optimization of anisotropic properties for continuum bodies and structural elements using spectral methods of tensor analysis, 7A907
- Special features of problems of the stability and vibrations of rectangular plates, 7A167
- Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, 10A877
BANIOTOPOULOS, CC: Saddle-supported pipelines: Influence of unilateral support and thickness on the stress state, 8A783
- Effect of liquid filling in saddle-supported pipelines, 12A872
BANK, LC: Mass and volume fraction properties of pultruded glass fiber-reinforced composites, 1A565
- Buckling of orthotropic plates with free and rotationally restrained unloaded edges, 5A526
- Local buckling of pultruded FRP beams: Analysis and design, 9A621
BANK, RE: Algorithm for coarsening unconstructed meshes, 8A52
BANKA, S: Multipurpose control systems synthesis for non-square discrete-time multivariable plants, 1T383
BANKE, K: Particle image velocimetry: Use of photo-thermoplastic film for photographic recording of particle images, 6A1057
BANKS, HT: Experimentally-validated damage detection theory in smart structures, 10A884
- Comparison of time domain boundary conditions for acoustic waves in wave guides, 11A254
BANKS-LEE, P: Acoustical characteristics of fabrics in high-intensity ultrasound, 12A289
- Acoustic properties of fabrics in low-intensity ultrasound, 12A288
BANKS-SILLS, L: Scale effect in the thin layer delamination problem, 2A656
BANNINK, WJ: Surface reflective visualization system study to vortical flow over delta wings, 5A995
- Topological interpretation of the surface flow visualization of conical viscous-inviscid interactions, 12A1107
BANNISTER, RL: Development requirements for an advanced gas turbine system, 5A1275
- Combined cycle designed to achieve greater than 60 percent efficiency, 5A1270
- Evolution of Westinghouse heavy-duty power generation and industrial turbines, 10A1384
BANNO, S: Cyclic elasto-plastic finite displacement analysis of plates with modified two-surface model (Japanese), 5A500
BANSAL, A: Application of the biaxial losipescu method to mixed-mode fracture of unidirectional composites, 1A806
- Finite element analysis of substation composite insulators, 7A20
BANSAL, NK: Dynamics and control of isolated wind-diesel power systems, 3A1379
BANTHIA, N: Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, 3A774
- Uniaxial tensile respone of microfiber reinforced cement composites, 4A489
BAO , G: High strain rate deformation in particle reinforced metal matrix composites, 8A442
BAO , SHIHUA: Overall stability and second-order analyses of tall building tubular structures with stepped cross-sections by FEMOL (Chinese), 9A624
BAO, G: Thermomechanical fatigue cracking in fiber reinforced metal-matrix composites, 1A823
- Fatigue cracking in fiber-reinforced metal matrix composites under mechanical and thermal loads, 10A794
BAO, MING: Using backpropagation neural networks to correct the stiffness matrix in a FE model (Chinese), 6A29
BAO, RONGHAO: Exploration of substitution of repeated mode subspaces for closely spaced mode subspaces, 10A388
BAO, WEIZHU: Artificial boundary condition for 2D incompressible viscous flows using the method of lines, 9A1065
- Nonlocal artificial boundary conditions for the incompressible viscous flow in a channel using spectral techniques, 11T880
BAO, XIAO-QI: Finite-element modeling of a smart cantilever plate with comparison with experiments, 11A10
BAO, XIAOQI: Active control of sound transmission through a plate using a piezoelectric actuator and sensor, 7A347
BAO, Y: Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, 8A731
BAOK, S: Varying the componentwise order of the multistep methods in solving ODEs and its absolute stability, 7A82
BAPAT, CN: Vibration of rods with uniformly tapered sections, 1T140
BAPAT, SL: Heat transfer during film condensation of R-123 vapor on horizontal integral-fin tubes, 8A1138
BAPTISTA ANTUNES, AE: Residual stresses in welding: Basic aspects (Spanish), 8A846
BAPTISTA, AM: Vertical discretization in tidal flow simulations, 10A1444
BAPTISTE, D: Viscoplastic analysis of adhesive joints, 9A1034
BAPTISTE, P: Disjunctive constraints for manufacturing scheduling: Principles and extensions, 12T473
BAR-AVI, P: Nonlinear dynamics of an articulated tower in the ocean, 7A974
BAR-COHEN, A: Design and Analysis of Heat Sinks, 3R29
- Effects of dissolved gas content on pool boiling of a highly wetting fluid, 3A1080
BAR-ITZHACK, IY: Two misconceptions in the theory of inertial navigation systems, 1T93
- Satellite autonomous navigation based on magnetic field measurements, 1T402
BAR-MEIR, G: Pressure die casting: A model of vacuum pumping, 11A606
BAR-NIV, I: Integrated solar collector storage system based on a salt-hydrate phase-change material, 5A1359
BAR-YOSEPH, P: Optimal maneuver of a flexible arm by space-time FEM, 4T366
BAR-YOSEPH, PZ: Stability of confined swirling flow with and without vortex breakdown, 9A1176
BAR-ZIV, E: Microstructural evolution of char under oxidation induced by uneven heating, 9A1329
- Fragmentation of highly porous char particles burning in regime I, 12T1315
BARABANENKOV, YN: Fluctuation theory of thermal acoustic radiation, 6A227
BARACH, D: Hybrid method for predicting the complete scattering function from limited data, 5A290
BARAKAT, Q: Application of object - oriented design concepts in CIM systems layout, 2A333
BARAKOS, G: Numerical simulation of viscoelastic flow around a cylinder using an integral constitutive equation, 4A882
- Non-isothermal viscoelastic simulations of extrusion through dies and prediction of the bending phenomenon, 8A404
BARANGER, J: Numerical analysis of a FEM for a transient viscoelastic flow, 1A485
BARANKIEWICZ, WS: Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, 11A967
- Comparison of F/A-18A inlet flow analyses with flight data: Part 1, 11A966
BARANOV, AV: Nonisothermal effects in the motion of non-Newtonian media with slip at the wall, 5A1149
BARANOWSKI, JM: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704
BARANY, E: Adaptive stabilization and tracking control of electrically driven manipulators, 8A322
BARAS, JS: Finite-dimensional optimal controllers for nonlinear plants, 3A322
BARAT, C: Effect of natural convection in liquid phase mass transport coefficient measurements: The case of thermosolutal convection, 10A1351
BARAT, P: Fractal characterization of ultrasonic backscattered signals from single crystal and polycrystalline materials, 1A323
BARAT, RB: Minimization of NO during staged combustion of CH_3NH_2, 11A1282
BARBA, S: Site response from ambient noise measurements: New perspectives from an array study in Central Italy, 11A1398
BARBAT, AH: Effectiveness of block iterative schemes in computing the seismic response of buildings with nonlinear base isolation, 3A1336
BARBATO, M: Material-dependent catalytic recombination modeling for hypersonic flows, 6A1189
BARBEE, KA: Mechanism for heterogeneous endothelial responses to flow *in vivo* and *in vitro*, 5A1388
BARBER, DJ: Probe interference on flow measurements in propeller near slipstream, 1T1143
BARBER, GC: Effects of cylinder wall surface roughness and bore distortion on blow-by in automotive engines, 2T805
BARBER, JR: Finite element analysis of the stability of static thermoelastic contact, 8A1159
- Surface displacements due to a steadily moving point force, 12A496
BARBERIS, D: Experimental study of 3D separation on a large-scale model, 4A944
BARBERO, EJ: Total Langrangian formulation for laminated composite plates analyzed by 3D FEs with 2D kinematic constraints, 1A620
- Analytical expressions for the relaxation moduli of linear viscoelastic composites with periodic microstructure, 5A476
- Finite elements for three-mode interaction in buckling analysis, 7A680
- Progressive failure analysis of laminated composite beams, 10A802
BARBIERI, G: Modeling methane cool flames and ignitions, 3A1237
BARBIERI, N: Optimal performance index for an off-road vehicle with passive and active suspension systems, 7A405
BARBONI, R: Structural optimization with parameter-transfer FE, 1A881
- Pin-force and Euler-Bernoulli models for analysis of intelligent structures, 2T735
BARBOUX, P: Macroscopic model of the swelling phenomenon of a saturated clay, 4A603
BARCZ, A: Interfacial reactions between thin films of zinc and (100) InP, 6A821
BARD, C: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292
BARD, P-Y: Horizontal-to-vertical spectral ratio and geological conditions: The case of Garner Valley Downhole Array in southern California, 11A1340
- Effects of buildings on the duration and amplitude of ground motion in Mexico City, 12A1379
BARD, PY: Seismic behavior estimation of thin alluvium layers using microtremor recordings, 9A1398
BARDELL, NS: Engineering application of the h-p version of the FEM to the static analysis of a Euler-Bernoulli beam, 8A484
- Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, 9A199
- Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, 9A18
- Free in-plane vibration of isotropic rectangular plates, 10T173
BARDET, JP: Scaled memory model for cyclic behavior of soils, 3A569
BARDIN, BS: Stability of the equilibrium of a pendulum for vertical oscillations of the point of suspension, 12A93
BARDON, JP: Numerical and experimental investigation of direct electric conduction in a channel flow, 6A1095
BARDZOKAS, D: Integral equations of thermoelasticity and thermoconductivity for cracked isotropic or anisotropic multiply connected bodies with reinforcement, 1A1296
- Plane contact of a cylindrical opening stiffened by a thin shell, 1A619
BARGER, VD: Classical Mechanics: A Modern Perspective, Second Edition, 3R6
BARHAM, L: Speckle-photography study of nuclear-waste vault deformations, 10A848
BARK, FH: Anisotropic subgrid modeling, 1T1085
BARKAN, A: Experiments on ion-acoustic waves in dusty plasmas, 10A1185
BARKER, BD: Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806
BARKER, DB: Modeling solder joint fatique life for gullwing leaded packages - Part I: Elastic plastic stress model, 3A652
BARKER, JS: Seismic response of a hill: The example of Tarzana, California, 11A1353
BARKER, TM: Three-dimensional joint co-ordination strategies of the upper limb during functional activities, 9A1440
BARKEY, ME: Pseudo stress and pseudo strain based approaches to multiaxial notch analysis, 2A395
BARLAT, F: Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, 8A23
BARLETT, ML: Transient detection using the non-stationary bispectrum, 10A385
BARLETTA, A: Laminar forced convection with sinusoidal wall heat flux distribution: Axially periodic regime, 6A1071
- Hyberbolic heat conduction and thermal resonances in a cylindrical solid carrying a steady-periodic electric field, 7A1241
- Thermal entrance region for laminar forced convection in a circular tube with a power-law wall heat flux, 7A1207
- Existence of an asymptotic thermally developed region for laminar forced convection in a circular duct, 11A1111
BARLOW, J: Moving-mass roll control system for fixed-trim re-entry vehicle, 7A402
BARLOW, RS: Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, 2A1183
- Relationships among nitric oxide, temperature, and mixture fraction in hydrogen jet flames, 8A1260
- Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, 11A1301
BARMIN , AA: Shock-capturing approach and nonevolutionary solutions in magnetohydrodynamics, 11A1009
BARNES, AE: Theory of 2D complex seismic trace analysis, 6A1256
BARNES, BL: Consolidation characteristics of phosphatic clays, 9A663
BARNES, JA: Thermally-induced deformations of constrained and unconstrained orthotropic composite rings, 6A426
BARNES, KA: Nonisothermal pulsating flow of a viscoelastic fluid, 10A1266
BARNES, R: Variation of the stress dependent magnetic flux leakage signal with defect depth and flux density, 12A804
BARNES, RA: Structural effectiveness of large volume patch repairs to concrete structures, 7A942
BARNES, S: Machining of aluminum based metal matrix composites, 2A540
BARNETT, JT: Power considerations in acoustic emission, 3A262
BARNETT, ND: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319
BARNETT, TP: Frequency-wavenumber structure of the tropical ocean-atmosphere system, 4T1341
BAROGHEL-BOUNY, V: Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, 3A487
BARON, E: Microdynamics of composite plates, 5A477
BARONE, S: Towards RGB photoelasticity: Full-field automated photoelasticity in white light, 2A693
BARONIO, A: Method for solving the indirect approximation problem, 12A76
BARONNET, F: Inhibiting effect of brominated compounds on oxidation reactions, 5A1247
BAROZZI, GS: Combined convection and wall conduction effects in laminar pipe flow: Numerical predictions and experimental validation under uniform wall heating, 3A1055
BARPANDA, D: Dynamic mechanical analysis of pultruded glass-graphite-epoxy hybrid composites at elevated temperatures, 10A588
BARR, DIH: Tables for the Calculation of Resistance in Internal Flows, 12N44
BARR, PV: Thermal model for the rotary kiln including heat transfer within the bed, 10A1378
BARR, RE: Development and evaluation of a musculoskeletal model of the elbow joint complex, 9A1435
BARRADAS CARDOSO, J: Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, 8A719
BARRAGAN DE LING, F DM: Thrust cone lubrication - Part I: Elastohydrodynamic analysis of conical rims, 11T1078
BARRAGAN, RM: Experimental performance of the water-lithium chloride system in a heat transformer, 2A1142
BARRE, S: Experimental study of a normal shock-homogeneous turbulence interaction, 10A1181

BARRERO, A: Bifurcation of swirl in liquid cones, 4A117
- Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, 6A897
BARRET, J-P: Finite element analysis applied to radial aircraft tire engineering, 8A775
BARRETT, DJ: Three-dimensional phase transformation model for shape memory alloys, 7A524
BARRETT, JW: Finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities, 1A24
- Error bound for the FE approximation of the Cahn-Hilliard equation with logarithmic free energy, 4A24
- Error bound for the FE approximation of a model for phase separation of a multi-component alloy, 9A44
BARRETT, LE: Rotor whirl in compliant auxiliary bearings, 10A1015
BARRETT, MD: Continuous control of chaos, 9A151
BARRETT, R: All-moving active aerodynamic surface research, 1A1118
- Subsonic aerodynamics and performance of a smart vortex generator system, 9A1225
- Missile flight control using active flexspar actuators, 11A313
BARRIENTOS , A: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429
BARRON, EN: Optimal control of the blowup time, 7T382
BARRON, M: Balcony overhangs in concert auditoria, 3A283
BARRON, RM: Stream function coordinate Euler formulation and shocktube application, 11A1086
BARROW, H: Theoretical analysis of the thermal resistance of non-uniform fouling on cross-flow heat exchanger tubes, 3A1150
- Cooling methods for railway tunnels, 6A1069
BARROWS, SP: Debris-cloud collision risk analysis: Polar-platform case study, 5A247
BARSTOW, N: Liquefaction-related ground failure: A case study in the New Madrid seismic zone, central US, 12A1381
BARSTOW, SF: Observations of the high-frequency range of the wave spectrum, 11A1415
BARSUK, AA: Optimal orientation of orthotropic materials for plates designed against buckling, 6A720
- Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, 10A877
BARSUKOV, VG: Calculation of the limiting friction force for a plugwise sliding in a rhomboic extrusion die channel, 6A831
BART, H-J: Isothermal liquid transport in porous media: Capillary hysteresis effects, 8A1304
BARTELLO, P: Four-dimensional data assimilation with a wide range of scales, 4T1345
BARTELS, KA: Experimental observation of elastic-wave dispersion in bounded solids of various configurations, 7A190
BARTER, JW: Reduction of fluctuating pressure loads in shock and boundary-layer interactions using vortex generators, 3A942
- Reduction of fluctuating pressure loads in shock-boundary-layer interactions using vortex generators - Part 2, 6T951
BARTHELEMY, J-FM: Sensitivity of flutter response of a wing to shape and modal parameters, 3T225
BARTHELET, P: Experimental study of interfacial long waves in a two-layer shear flow, 4A276
BARTHOLD, F-J: Performance comparison of SAM and SQP methods for structural shape optimization, 11A732
BARTHOLD, FJ: Continuum mechanical-based formulation of the variational sensitivity analysis in structural optimization - Part I: Analysis, 8A709
BARTHOLOME, G: Leak-before-break behavior of nuclear piping systems, 1A1413
BARTHOLOMEW, RW: Design considerations for numerical filters used in vortex-in-cell algorithms, 6A910
BARTHOLOMEW-BIGGS, MC: Penalty method for point and path state constraints in trajectory optimization, 2A265
BARTKOWIAK, A: Augmented biplot and some examples of its use, 10A66
BARTKOWIAK, E: New resilient and bulky nonwovens and their applications, 6T428
BARTLETT, CA: Integrated force arrays: Theory and modeling of static operation, 5A350
BARTLETT, CS: Turbine engine icing spray bar design issues, 5A1014
BARTLETT, H: Modeling and simulation of the operational and information processing functions of a computer-integrated manufacturing cell, 2T340
BARTLETT, R: Relationship between basketball shooting kinematics, distance and playing position, 12A1495
BARTLETT, RM: Estimating propulsive forces in swimming from 3D kinematic data, 6A1378
BARTOLETTI, SJ: Effects of epoxy coating on anchorage and development of welded wire fabric, 5A707
BARTOLOMEY, GG: Experimental data on hydraulic drag on boiling water in heated tubes, 1A1231
BARTON , FW: Elastoplastic analysis of layered metal matrix composite cylinders - Part I: Theory, 7A592
- Elastoplastic analysis of layered metal matrix composite cylinders - Part II: Numerical results, 7A593
BARTON , IE: Numerical study of flow over a confined backward-facing step, 2A884
BARTON JR, O: Buckling of rectangular symmetric angle-ply laminated plates determined by eigensensitivity analysis, 4A572
BARTON, DC: Effect of frame flexibility on the ride vibration of trucks, 4A206
- Numerical study of ductile void growth under dynamic loading conditions, 8A634
BARTON, IE: Computation of dilute particulate laminar flow over a backward-facing step, 7A1094
- Exponential-Lagrangian tracking schemes applied to Stokes Law, 9A1066
BARTON, JS: Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
BARTON, LO: New graphical technique for solving the Euler-Savary equation, 2T825
BARTOSIEWICZ, Z: Partially defined control systems: Controllability and stabilizability, 1A368
BARTOSIK, AS: Prediction of vertical liquid-solid pipe flow using measured concentration distribution, 3A930
BARTOSZEWICZ, A: Computationally efficient dynamic modelling of robot arms, 1A431
BARUH, H: Modal analysis using segmented piezoelectric sensors, 4A231
- Active control of flexible structures by use of segmented piezoelectric elements, 12A394
BARUT, A: Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, 11A39
BARWOLFF, A: Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, 3A1100
BARZEGAR, F: Hysteretic modeling of tubular members and offshore platforms, 6A775
- Study of layering procedures in FE analysis of RC flexural and torsional elements, 6A756
BASAR, T: Robustness of minimax controllers to nonlinear perturbations, 6T268
BASARA, B: Assessment of the SSG pressure-strain model in 2D turbulent separated flows, 3A966
- Prediciton of turbulent flows in dredged trenches, 7T1101
BASAVARAJU, C: Cylindrical shells under partially distributed radial loading, 7A617
BASCIANI, M: Experimental comparison of two adaptation strategies in an adaptive-walls wind-tunnel, 2A1072
BASCOUL, A: State of the art report - Part 2: Mechanical micro-cracking of concrete, 9A788
BASHA, HA: Routing equations for detention reservoirs, 6A889
- Analysis of water distribution systems using a perturbation method, 9A1426
BASHA, HS: Special truss moment frames with Vierendeel middle panel, 1A1400
BASHEER, IA: Identification of compaction characteristics by Neuronets, 10A653
BASHIR, MHM: Free vibration of beams and oblique panels by spline-integral method, 7A142
BASIC, D: Damping distribution over the flexible connections in the frame structures, 11T131
BASIR, OA: Modeling and fusing uncertain multisensory data, 7A447
BASKAKOV, AP: Heat transfer in a circulating fluidized bed with secondary air injection, 5A1302
BASKHARONE, EA: Finite-element model of the cyclic aerodynamic loading of a turbine rotor due to an upstream stator, 12A1181
BASKURT, OK: Deformability of red blood cells from different species studied by resistive pulse shape analysis technique, 10A1474
BASOALTO, H: Theoretical analysis of the cutting method for the measurement of crack bridging tractions, 9A852
BASOK, BI: Heat transfer and hydrodynamics in an ensemble of bubbles on discharge of boiling liquid, 1A1232
BASOVA, NM: Heat transfer to a finned tube in a high-temperature pulsating layer, 10A1284
BASROUR, S: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347
BASS, HE: Experimental study of a thermoacoustic termination of a traveling-wave tube, 1A300
- Sonic boom propagation through a realistic turbulent atmosphere, 5A265
- Investigation of parametric drive of a longitudinal gas-filled resonance tube, 7A324
BASSANI, D: Use of genetic algorithms for the design of rotors, 5A858
BASSANI, R: Ring axially magnetized passive radial magnetic bearing, 9A1005
BASSIM, MN: Effects of fatique precracking on stretch zone formation, 2A630
- Measurement of crack tip strains using neutron diffraction, 4A763
- Use of the stretch zone for the characterization of ductile fracture, 6A655
BASSO, GL: Aircraft fuselage noise transmission measurements using a reciprocity technique, 4A331
BASSOM, AP: Stability of vertical thermal boundary-layer flow in a porous medium, 1A1071
- Receptivity mechanisms for Gortler vortex modes, 2A944
- Blasius boundary-layer flow of a micropolar fluid, 5A933
- Effects of suction on the nonlinear stability of a 3D compressible boundary layer, 12A1144
BASSON, A: Numerical simulation of tip clearance effects in turbomachinery, 5A1074
BASTE, S: Experimental investigation of stiffness reduction and cracks geometry in a unidirectional brittle matrix composite, 8A647
BASTERO, JM: Coating cracks in materials with general anisotropy, 1A826
BASTIAS, P: Influence of indent geometry on repeated 2D rolling contact, 5T800
BASTIAS, PC: Contribution of surface irregularities to rolling contact plasticity in bearing steels, 5A439
- Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, 5A779
- Noncontacting strain measurements during tensile tests, 10A856
BASTIEN, F: Lamb and shear-horizontal wave production by interdigital transducers deposited on both sides of a piezoelectric plate, 10A247
BASTIEN, J: Relative efficiency of external prestressing, 6A758
BASTIN, G: Control of nonholonomic wheeled mobile robots by state feedback linearization, 4A397
- Adaptive control of nonlinear systems with nonlinear parameterization, 10T418
BASTUN, VN: Solution of the problem of genesis of strain anisotropy in thin-walled structural elements (Russian), 7A607
- Destruction of round cylindrical shells of orthotropic material weakened by a longitudinal crack under statistical loading by axial force and internal pressure (Russian), 7A852
BASU, A: Safety optimizing strategies for local path planning in dynamic environments, 4A1371
- Instability in a combined heat and mass transfer problem in porous media, 8A1320
BASU, B: Probabilistic assessment of seismic damage in ductile structures, 3A1333
- Note on damage-based inelastic spectra, 10A1438
BASU, D: Importing mesh entities through IGES-PDES, 5A41
BASU, P: Heat transfer in a pressurized circulating fluidized bed, 11A1328
BASU, S: Finite element simulation of mode I dynamic, ductile fracture initiation, 6A594
BASUNBUL, IA: Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505
- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573
BATA, RM: Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
BATAILLE, J: Advances in Multiphase Flow 1995 - Selected papers from 2nd Int Congress on Multiphase Flow, Kyoto, Japan, April, 1995, 5N24
BATAYNEH, JS: Probabilistic seismic hazard zonation and dynamic site periods mapping for major cities in Jordan, 7A1371
BATCHELOR, AW: Model of scuffing based on the vulnerability of an elastohydrodynamic oil film to chemical degradation catalyzed by the contacting surfaces, 6A823
BATCHELOR, R: Conformability analysis in support of design for quality, 7A465
BATEMAN, CA: Dynamic loss of stability in depth control of submersible vehicles, 9A960
BATES, L: Magnetic spherical pendulum, 1A86
- Geometry of nonholonomic constraints, 10A71
BATES, S: Superious numerical refraction, 4A278
BATHE, K-J: Finite Element Procedures, 11R1
BATHIE, WW: Fundamentals of Gas Turbines, Second Edition, 9N16
BATHURST, JC: Field Measurement of boulder flow drag, 8T895
BATHURST, RJ: Deterministic sliding block methods for estimating seismic displacements of earth structures, 12A1400
BATISHCHEV, VA: Self-similar solutions describing unsteady thermocapillary fluid flows, 12A1236
BATISTA, M: Stresses in a circular ring under two forces acting along a diameter, 6A471
BATISTA, RC: Aerodynamic stability analysis of cable-stayed bridges, 6A159
BATKO, W: Filtering of the noise generated by shaft neck edetour deformations in monitoring systems, 10T219
BATLLE, JA: Rough balanced collisions, 9A284
BATOZ, JL: Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, 11A34
BATRA, R: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
BATRA, RC: Contemporary Research in Engineering Science - Computational Mechanics, Fracture, and Structural Mechanics Series, 7N30
- Constitutive Laws: Theory, Experiments, and Numerical Implementation - Proc of Symp on Constitutive Laws, Mauna Lani HI, July-Aug 1995, 11N4
- Morphological stability of a propagating domain wall in 2D ferroelastic transformations, 1A200
- Toughening due to transformations induced by a crack tip stress field in ferroelastic materials, 1A802
- Saint-Venant's principle for linear elastic porous materials, 2A358
- Engineering penetration-perforation model of hemispherical nosed rigid cylindrical rods into strain-hardening targets, 3A195
- Effect of prior quasi-static loading on the initiation and growth of dynamic adiabatic shear bands, 3A1176
- Mixed variational principles in nonlinear electroelasticity, 5A542
- Stability of a propagating interphase boundary in a thermoplastic material, 5A1189
- Shape control of vibrating simply supported rectangular plates, 6A138
- Elastic joints containing interfacial cracks, 7A844
- Vibration of a simply supported rectangular elastic plate due to piezoelectric actuators, 8A122
- Comparison of 1D and 3D simulations of the twisting of a thermoviscoplastic tube, 8A1230
- Development of shear bands during the perforation of a steel plate, 10A1332
- Stress intensity relaxation at the tip of an edge crack in a functionally graded material subjected to a thermal shock, 12A740
BATT, JJM: Development of fast response aerodynamic probes for flow measurements in turbomachinery, 5A1076
BATT, TJ: Strengthening caused by power law creep deformation of dispersed particles in an elastic matrix, 4A449
BATTA, G: Active control of vortex breakdown over a delta wing, 2T1007
BATTA, V: Application of BE analysis for multiple seismic cracking in concrete gravity dams, 6A1273
BATTACHAR, VS: Thermal fatigue behavior of nickel-base superalloy 263 sheets, 1A762
BATTEN, P: Positively conservative high-resolution convection schemes for unstructured elements, 11A924
BATTIN-LECLERC, F: Inhibiting effect of brominated compounds on oxidation reactions, 5A1247
BATTOGTOKH, D: Controlling turbulence in the complex Ginzburg-Landau equation, 7A105
BATY, RS: Instability of jets of arbitary exit geometry, 3A964
- Conformal grid generation for high aspect ratio simply and doubly connected regions, 4A60
BAU, HH: Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7, 6R16
- Conjugate Graetz problem with axial conduction, 11T1106
- Rendering a subcritical Hopf bifurcation supercritical, 12A121
BAUCHAU, OA: Energy decaying scheme for nonlinear elastic multibody systems, 8A72
BAUDEAU, PH: Rheological behavior of fresh concrete under different stresses (French), 4A767
- Punching of granular media: Application to concrete (French), 5A466
BAUDELET, B: Dislocation density approximation for the flow stress-grain size relation of polycrystals, 1A516
BAUER, CL: Stress distribution and mass transport along grain boundaries during steady-state electromigration, 1A680
BAUER, HF: Anchored edge pitching response of a spinning frictionless liquid column due to bottom and/or top excitation, 4A954
- Pitching response of an anchored viscous liquid bridge to bottom and/or top disc excitation, 10A1079
- Vibrations of an infinitely long flowing liquid jet: Influence of spin and axial flow, 12A1131
BAUER, M: Fuzzy logic traction controllers and their effect on longitudinal vehicle platoon systems, 9A424
BAUER, R: EBRA: A method to measure migration of acetabular components, 1A1459
BAUGH JR, JW: Network-distributed FE analysis, 12A21
BAUGH, E: Head-tape interface: A critical review and recent results, 8A793
BAUGH, KW: Transient detection using the nonstationary bispectrum, 10A385
BAUGHN, JW: Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, 1A1252
- Shroud technique using the transient method for local heat transfer measurements, 4A1176
- Liquid crystal methods for studying turbulent heat transfer, 5A1160
BAUKAL, CE: Review of semi-analytical solutions for flame impingement heat transfer, 12A1320
BAUM, J: Dusty shock flow with unstructured adaptive FEs and parcels, 10T15

BAUM, M: Effects of mean flow on premixed flame ignition, 3A1202
BAUMAN, LE: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
BAUMANN, HD: Method to predict sound levels from hydrodynamic sources associated with flow through throttling valves, 4A306
BAUMGARTEL, M: Relaxation of concentrated polymer solutions, 10A1047
BAURLE, RA: Assumed and evolution probability density functions in supersonic turbulent combustion calculations, 4A1251
BAUTISTA, EO: Remote determination of *in situ* sediment parameters using Love waves, 1A309
BAUWENS, L: Stratified flow model for adiabatic losses in regenerative thermal devices, 1A1277
- Near-isothermal regenerator: A perturbation analysis, 3A1151
- Adiabatic losses in Stirling refrigerators, 12A1265
BAVINCK, H: Structural differences in wave propagation in discrete and continuous systems, 5A175
- Wave propagation in a finite cascade of masses and springs representing a train, 12A202
BAWEJA, S: Justification and refinements of Model B3 for concrete creep and shrinkage - I: Statistics and sensitivity, 2A413
- Justification and refinements of model B3 for concrete creep and shrinkage - Part 2: Updating and theoretical basis, 3A486
BAXEVANAKIS, C: Fracture statistics of a unidirectional composite, 7A832
BAXTER, SC: End effects for antiplane shear deformations of sandwich structures, 4A808
- Effects of curvilinear anisotropy on radially-symmetric stresses in anisotropic linearly elastic solids, 11A428
BAYADA, G: Interface conditions for a thin film flow past a porous medium, 1A1360
- Existence of solutions for elastohydrodynamic piezoviscous lubrication problems with a new model of cavitation, 8A1041
BAYAZITOGLU, Y: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13, 3N44
- Derivation of the Casimir limit phonon distribution using the Boltzmann transport equation, 3T1139
- Experiments in acoustic levitation: Surface tension measurements of deformed droplets, 3A935
- Radiative properties of films using partial coherence theory, 6A1134
BAYCHEV, I: Finite element method for frames with variable characteristics, 8A16
- Fixed-hinged beam FEs used for dynamic analysis of frames, 8T132
BAYLEY, DJ: Experimental investigation of angled injection in a compressible flow, 8A946
BAYLISS, A: Stability and error analysis for time integrators applied to strain-softening materials, 1A524
- Forward motion effects on jet noise, panel vibration, and radiation, 11A245
BAYNHAM, J: Acoustic diagnostic analysis using BEs, 6A40
BAYO, E: Augmented Lagrangian and mass-orthogonal projection methods for constrained multibody dynamics, 7A87
BAYON, A: Experimental results on bulk waves and Rayleigh waves in slate, 6A187
- Three-component recording of ultrasonic transient vibration by optical heterodyne interferometry, 7A891
BAYOUMI, AE: Study on shear banding in chip formation of orthogonal machining, 12A692
BAYOUMI, MR: Finite element analysis of stresses due to pitting of steel specimens under different cyclic bending stresses, 5A19
BAYRAKTAR, A: Asynchronous dynamic analysis of dam-reservoir-foundation systems by the Lagrangian approach, 5A1312
- Earthquake analysis of gravity dam-reservoir systems using the Eulerian and Lagrangian approaches, 9A1396
BAYSAL, O: CFD for Design and Optimization, FED-Vol 232 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 5N4
- Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf, 2N48
BAYTAS, AC: Buoyancy-driven flow in an enclosure containing time periodic internal sources, 8A1078
BAZ, A: Continuous sliding mode control of flow-induced vibrations, 1A250
- Control of the natural frequencies of NITINOL-reinforced composite beams, 1A882
- Optimal deflection control of multi-segment traversing beams, 1A885
- Optimal vibration control with modal positive position feedback, 11A331
- Optimum design of a buoyancy and gravity-driven underwater robot, 11A375
BAZANT, ZP: Particle model for quasibrittle fracture and application to sea ice, 1A1439
- Justification and refinements of Model B3 for concrete creep and shrinkage - I: Statistics and sensitivity, 2A413
- Justification and refinements of model B3 for concrete creep and shrinkage - Part 2: Updating and theoretical basis, 3A486
- Effect of composition on basic creep of concrete and cement paste, 3A666
- Cohesive crack modeling of influence of sudden changes in loading rate on concrete fracture, 4A742
- Is no-tension design of safe concrete or rock structures always safe: Fracture analysis, 6A736
- Analysis of work-of-fracture method for measuring fracture energy of concrete, 7A790
- Numerical smeared fracture analysis: Nonlocal microcrack interaction approach, 7A864
- Microplane model for concrete - I: Stress-strain boundaries and finite strain, 8A443
- Microplane model for concrete - II: Data delocalization and verification, 8A444
- Zero-brittleness size-effect method for one-size fracture test of concrete, 10A763
BAZHENOV, SL: Bending failure of aramid fiber-reinforced composite, 2A640
BAZHENOV, VG: Numerical simulation of the non-stationary impact interaction between deformable structural elements, 5A678
BAZIAR, MH: Residual strength and large-deformation potential of loose silty sands, 6A534
BAZILE, R: Measurements of vaporized and liquid fuel concentration fields in a burning spray jet of acetone using planar laser induced fluorescence, 5A1264
BAZZI, H: Transient behavior of a $NaNO_3$ float zone operating at high Marangoni number under μ-g conditions, 1A1194
- Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, 5A1144
BAZZURRO, P: Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, 9A1415
BEALE, D: Nonlinear equation instability boundaries in flexible mechanisms, 6A87
BEALE, DG: Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, 6A89
- Numerical method for stability analysis of pinned flexible mechanisms, 11A555
BEALE, LS: Power flow in 2D and 3D frame structures, 2A736
BEALL, MW: Computer-aided multiscale modeling tools for composite materials and structures, 4A531
- Automatic construction of 3D models in multiple scale analysis, 6A47
BEAM, JE: Methodology for comparison of hydraulic and thermal performance of alternative heat transfer fluids in complex systems, 1A1349
BEAMISH, JR: Leaky plate modes: Radiation into a solid medium, 9A266
BEAN, C: Sound-pressure response measurement in small rooms over a finite region, 5A295
BEAN, DE: Correlation of F/A-18 buffeting from wind-tunnel and flight tests, 5A229
BEAR, J: Migration of salts in the unsaturated zone caused by heating, 2A1218
- Evolution of the balance equations in saturated thermoelastic porous media following abrupt simultaneous changes in pressure and temperature, 5A1296
- Influence of free convection on soil salinization in arid regions, 12A1346
BEARDS, CF: Engineering Vibration Analysis with Application to Control Systems, 3R11
- Substructure synthesis with FRF data, 2A129
- Identification of joint properties of a structure using FRF data, 3A861
BEARDSLEY, B: Simple scheme for self-focusing of an array, 9A868
BEARMAN, PW: Flow-Induced Vibration - Proc of 6th Int Conf, London, UK, April 1995, 12N6
BEATTIE, C: Methods for computing lower bounds to eigenvalues of self-adjoint operators, 5A70
BEATTIE, T: Computer model of major haemorrhage and resuscitation, 11A1463
BEATTY, MF: Compressible materials capable of sustaining axisymmetric shear deformations - Part 1: Anti-plane shear of isotropic hyperelastic materials, 1A2
BEAUCHAMP, J: Genetic algorithm-based method for synthesis of low peak amplitude signals, 6A259
BEAUDOIN, AJ: Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, 1A520
- Consistent penalty method for contact between a deforming viscoplastic workpiece and a rigid tool, 4A457
- Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, 5A17
BEAUDOIN, JL: Thermoelastic stress analysis with standard thermographic equipment by means of statistical noise rejection, 10T1346
BEAUDRY, N: Design methodology for a multifunctional hand prosthesis, 6A1372
BEAULIEU, D: Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, 11A14
BEAUVILAIN, TA: Sound cancellation by the use of secondary multipoles, 3A289
BEAUWENS, R: High-performance PCG solvers for FEM structural analysis, 10A18
BEAVAN , J: Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, 6A1228
BECACHE, E: Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77, 11N19
BECCU, R: Identification of a percussive drill rod joint from its response to stress wave loading, 7A219
- Reflection and transmission of the energy of transient elastic extensional waves in a bent bar, 9A190
BECERRA, VM: Dynamic integrated system optimization and parameter estimation for discrete time optimal control of nonlinear systems, 8A279
BECH, KH: Secondary flow in weakly rotating turbulent plane Couette flow, 12A1115
BECH, S: Timbral aspects of reproduced sound in small rooms - II, 12A301
BECHERT, DW: Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, 4A1076
- Calibration of Preston tubes, 6T1052
- Drag reduction with the slip wall, 10T1143
BECHT IV, C: B31.3 Appendix X rules for expansion joints, 5A603
BECHTOLD, JK: Counterflow diffusion flames with unsteady strain rates, 3A1209
- Response of counterflow premixed flames to oscillating strain rates, 10A1370
BECHTOLD, P: Cloud perturbations of temperature and humidity: A LES study, 8A1361
BECK, A: Finite displacements of curved annular elastic membranes without wrinkling, 1A604
BECK, JC: Energy transfer mechanisms as a compensatory strategy in below-knee amputee runners, 10A1468
BECK, JL: Approximate analysis of response variability of uncertain linear systems, 6A115
BECK, JV: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10, 3N41
BECK, SM: Transmission line modeling of simulated drill strings undergoing water-hammer, 7A285
BECKER, AA: Contact mechanics analysis of frictional slip of inclusions embedded in dissimilar matrices using the BEM, 3A46
- Predictions of creep failure in aeroengine materials under multi-axial stress states, 7A795
- Boundary element analysis of heat conduction and thermal stresses in contact problems using independent meshing, 9A1267
- Analysis of the impression creep test method using a rectangular indenter for determining the creep properties in welds, 12A507
BECKER, LE: Sedimentation of a sphere near a plane wall: Weak non-Newtonian and inertial effects, 12A1084
BECKER, R: Computational model for analysis of dynamic thermal performance of a hybrid slab-collector system with passive discharge, 5A1347
BECKER, W: Effective tensile stiffness of finite-width quasi-isotropic laminates, 2A431
BECKERMANN, C: Numerical study of the combined effects of microsegregation, mushy zone permeability and flow, caused by volume contraction and thermosolutal convection, on macrosegregation and eutectic formation in binary alloy solidification, 2A1105
BECKMAN, WA: Investigation of minute solar radiation data, 1A1428
BECUS, GA: Determination of aircraft stall margins during takeoff, 11T1020
BEDA, PB: Bifurcation and postbifurcation of rods, 6A492
BEDAIR, OK: Plate-stiffener assemblies under nonuniform edge compression, 3A539
- Elastic stability of partially-restrained plates under compression and in-plane bending, 5A529
BEDEAUX, D: Drag on a sphere in slow shear flow, 1A981
BEDEKAR, SD: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237
BEDERIAT, M: Experimental and numerical investigations on transient creep of porous chalk, 1A707
BEDFORD, BD: Molecular orientation of a liquid-crystalline polymer solution in mixed shear-extensional flows, 8A862
BEDI, S: Five-axis milling of spherical surfaces, 4A637
BEDIENT, PB: Probabilistic screening tool for ground-water contamination assessment, 3T1396
BEDZIR, AA: Nonideal contact in the composite shell construction with deformable filler (Russian), 7A581
BEEDIE, D: Dynamic characteristics of a small fixed-bed gasifier stove, 8A1271
BEEHAG, A: Influence of cooling rate on interlaminar fracture properties of unidirectional commingled CF-PEEK composites, 5A648
- Role of cooling pressure on interlaminar fracture properties of commingled CF-PEEK composites, 7A839
- Consolidation and interlaminar fracture properties of unidirectional commingled CF-PEEK composites, 10A790
BEER, JM: Effect of SO_2 and NO on the conversion of fuel nitrogen to N_2O and NO in single particle combustion of coal, 5A1215
BEERI, Z: Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, 8A1275
- Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, 8A1276
BEERSCHWINGER, U: Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
BEES, WJ: Composites for the Pressure Vessel Industry - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N21
BEEVERS, DJ: Design of a non-constrained, non-cemented, modular, metacarpophalangeal prosthesis, 3A1418
BEGEYEV, TK: Solution of problems on elastic-plastic contact interaction of bodies using a FEM, 10A11
BEGHINI, M: Hydrogen embrittlement characterization by disk pressure tests: Test analysis and application to high chromium martensitic steels, 10A744
- Effective stress intensity factor and contact stress for a partially closed Griffith crack in bending, 12A735
BEGLEY, CJ: Comparison of piecewise linear and continuous approximating models, 4T129
BEGLEY, MR: Time dependent crack growth in ceramic matrix composites with creeping fibers, 3A704
BEGOTTO, V: Damage gear detection by magnitude and phase demodulation (French), 11A657
BEHFAR, SMR: Finite element nodal ordering algorithms, 5A24
BEHNIA, M: Numerical laminar and turbulent fluid flow and heat transfer predictions in tube banks, 3A1020
- Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, 8A1221
- Combined natural convection-conduction and radiation heat transfer in a discretely-heated open cavity, 8A1183
BEHR, R: Comparison of linear and nonlinear seismic drift histories for midrise steel frames, 12A1398
BEHR, RA: Seismic performance of architectural glass in a storefront wall system, 3A1326
BEHRING, KA: Feasibility demonstration of cryogenic fluid gauging for space vehicle applications, 2A1075
BEHRINGER, RP: Convection in ^{3}He-superfluid-^{4}He mixtures - Part 2: A survey of instabilities, 7A1118
- Convection in ^{3}He-superfluid-^{4}He mixtures - Part 1: A Boussinesq analogue, 7A1211
BEIGELZIMER, YE: Mathematical model of solid phase extrusion for polymer composite materials (Russian), 8A548
BEIKIRCHER, T: Gas heat conduction in evacuated flat-plate solar collectors: Analysis and reduction, 3A1369
BEILER, MG: Thermal performance reduction in air-cooled heat exchangers due to nonuniform flow and temperature distributions, 10A1310
BEILIN, D: Stress-strain state of polymer chemical-resistant coatings during curing and under operating conditions, 1A577
BEISSEL, S: Patterns of deformation in phase transformations and Luders bands, 9A488
BEITHIER, Y: Determination of tribological history and wear through visualization in lubricated contacts using a carbon-based composite, 12A880
BEJAN, A: Entropy Generation Minimization: Method of Thermodynamic Optimization of Finite-Size Systems and Finite-Time Processes, 7R26
- Thermal Design and Optimization, 5N30
- Optimization of pulsating heaters in forced convection, 1A1170
- Optimal allocation of a heat-exchanger inventory in heat driven refrigerators, 1A1154
- Optimal spacing for cylinders in crossflow forced convection, 3T1022
- Optimal spacing of cylinders in free-stream cross-flow forced convection, 4A1143
- Maximum power from fluid flow, 7A1202
- Thermodynamic optimization of cooling techniques for electronic packages, 7A1278
- Heat sinks with sloped plate fins in natural and forced convection, 8A1074
- Cooling of a 2D space with one or more streams making one or more passes, 8A1220
- Thermodynamic optimization of solar-driven refrigerators, 11A1430
- Equivalence of maximum power and minimum entropy generation rate in the optimization of power plants, 12A1209
BEJARANO, JD: Homoclinic and heteroclinic chaos in a triple-well oscillator, 2A76
BEJCZY, AK: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
BEKAERT, A: Improvement of the kinematic bound for the stability of a vertical cut-off, 4T618

- Three-dimensional yield strength properties of jointed rock mass as a homogenized medium, 10A694
BEKETOV, VG: Moist Gases: Thermodynamic Properties, 9N28
BEKEY, GA: Adaptive stochastic optimization using multiprocessors, 1A63
BEKKER, A: Deformation of shape memory alloys due to thermo-induced transformation, 9A895
- Different approach to discretization for the numerical simulation of 3D heat conduction in irregularly shaped materials, 10A1294
BELAIR, J: Complex dynamics and multistability in a damped harmonic oscillator with delayed negative feedback, 5A90
BELAIR, P: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
BELANGER, J: Transverse jet mixing and combustion experiments in hypervelocity flows, 6A1213
BELARBI, A: Seismic performance of architectural glass in a storefront wall system, 3A1326
- Constitutive laws of softened concrete in biaxial tension-compression, 3A4
- Comparison of linear and nonlinear seismic drift histories for midrise steel frames, 12A1398
BELARIBI, FB: Equilibres liquido-vapour isothermes de melanges binaires de la piperidine et de la N-methyl piperidine avec certains ethers (French), 8A1061
BELCHER, SE: Linear dynamics of wind waves in coupled turbulent air-water flow - Part 2: Numerical model, 8A202
BELDICA, C: Crack propagation in a model composite, 9A837
BELDING, WA: Desiccant aging and its effects on desiccant cooling system performance, 8A1208
BELEGUNDU, AD: Shape optimization with p adaptivity, 4A861
BELEN'KAYA, LK: Investigation of secondary periodic modes for viscoelastic rod with hereditary properties under vibration, 10A149
BELETSKII, VV: Regular and chaotic motions in applied dynamics of a rigid body, 12A120
BELETSKY, VV: Regular and Chaotic Motions of Rigid Bodies - (Regulaere und chaotische Bewegung starrer Koerper) (German), 2R9
BELIAEV, A: Conditional stability of solitary waves propagating in elastic rods, 7A218
BELIBASAKIS, KA: Boundary integral equation formulation of the Neumann problem for a vector field in R^3 with application to potential lifting flows, 5A1016
BELILOVSKY, Y: Mean flow characteristics of a 3D turbulent wall jet over an isothermal and an insulating flat surface, 6A1067
BELIN, F: Exponents of the structure functions in a low temperature helium experiment, 11A1002
BELINGARDI, G: Modeling the dynamic behavior of a motorcycle damper, 4A223
- Processing of simultaneous mechanical random response signals: Integration, differentiation and phase shifts correction, 12A331
BELIVEAU, J-G: Iterative least-squares calculation for modal eigenvector sensitivity, 7A217
BELIZON, F: Potential of attraction for an elliptic ring, 8T234
BELK, DM: Multigrid approach to overset grid communication, 4A63
BELL , T: Numerical model for the dry sliding contact of layered elastic bodies with rough surfaces, 8T797
BELL, AJ: Determination of bolt forces in a circular flange joint under tension force, 10A1034
BELL, DJ: Effect of sampling period on the behavior of systems incorporating state feedback, 8T293
BELL, GD: Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363
BELL, JC: Lubricated wear of ceramics - Part I: The wear and friction of silicon nitride, alumina, and steel in the presence of a mineral oil based lubricant, 5T785
BELL, JF: Symmetry and coaxiality of pertinent stretch and stress tensors during non-proportional loading at finite plastic strain, 9A505
BELL, PI: Influence of surface topography on rotating convection, 11A891
BELL, R: Calibration of the localized DCPD method for crack shape measurement using the BEM, 1A53
- Framework for modeling the coincident flow of workpieces and cutting tools, 10A503
BELL, SR: Investigation of lean combustion in a natural gas-fueled spark-ignited engine, 12A1328
BELL, T: Unlubricated rolling-sliding wear mechanisms of complex aluminum bronze against steel, 12A915
BELLECCI, C: Thermodynamic design of a phase change thermal storage module, 11A1241
BELLET, M: Viscoelastic simulation of PET stretch-blow molding process, 12A511
BELLETTINI, G: Numerical simulations of measurements of capillary contact angles, 9A1081
BELLEZZA, F: Adaptive output regulation of a flexible arm, 9A459
BELLINGER, NC: Double pass retroreflection for corrosion detection in aircraft structures, 6A694
BELLIZZI, S: Spectral response of asymmetrical random oscillators, 9A931
BELLOMO, D: Nonlinear kinetic equations with dissipative collisions, 2A916
BELLOMO, N: Modelling Mathematical Methods and Scientific Computation - Mathematical Modelling Series, 5R1
- Nonlinear Boltzmann equation solutions and applications to fluid dynamics, 2A915
BELLOTTI, R: Anisotropy of small strain stiffness in Ticino sand, 9A659
BELMONT, MR: Methods for examining anisotropies in early combustion - Part II: Theoretical developments, 5A1255
- Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, 5A1254
BELONOSOV, AS: Local optimization technique for the solution of the problem of nonlinear seismic tomography, 8A1347
BELONOSOV, MS: Finite element methods for nonlinearly viscous fluids, 12A1040
BELONOSOV, VS: Scattering of plane waves in inhomogeneous half-space, 2A162
BELONOSOVA, AV: Local optimization technique for the solution of the problem of nonlinear seismic tomography, 8A1347
BELOSHENKO, VA: Mathematical model of solid phase extrusion for polymer composite materials (Russian), 8A548
BELOTSERKOVSKII, PM: High-frequency vertical vibrations of a rail under the action of a mobile harmonic force, 6T470
BELOTSERKOVSKIY, PM: Oscillations of infinite periodic beams subjected to a moving concentrated force, 12A154
BELOTSERKOVSKY, SM: Simulation of vortex diffusion effects on jet turbulence characteristics, 10A1159
BELOUSOV, VS: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303
BELOVICH, VM: Dual stream axisymmetric mixing in the presence of axial vorticity, 6A975
BELSKY, V: Multigrid method for periodic heterogeneous media - Part 1: Convergence studies for 1D case, 4A535
- Computer-aided multiscale modeling tools for composite materials and structures, 4A531
- Iterative and direct solvers for interface problems with Lagrange multipliers, 4A34
- Multi-grid method for periodic heterogeneous media - Part 2: Multiscale modeling and quality control in multidimensional case, 4A534
- Unstructured multigrid method for shells, 9A611
BELTZ, GE: Simple elastic cell model of cleavage fracture in the presence of dislocation plasticity, 9A812
BELTZER, AI: Engineering Analysis with Maple/Matematica, 3R1
BELUBEKIAN, V: Chaotic vibrations of a nonlinear viscoelastic beam, 9A182
BELYAEV, AA: Change of the physical parameters of semiconductor crystals under thermocyclic treatment, 1T687
BELYAEV, AK: Wide-band random vibrations in members of complex structures, 2A86
- Combined integral and FE analysis of broad-band random vibration in structural members, 6A761
- Thermodynamic derivation of the heat conduction equation and the dynamic boundary value problem for thermoelastic materials and fluids, 8A1158
BELYAEVA, IY: Nonlinear interaction of acoustical waves due to cracks and its possible usage for cracks detection, 1A855
BELYTSCHKO, T: Stability and error analysis for time integrators applied to strain-softening materials, 1A524
- Element-free Galerkin method for wave propagation and dynamic fracture, 4A252
- Analysis of thin plates by the element-free Galerkin method, 6A478
- Coupled FE and element-free Galerkin method, 6A24
- Three reliability methods for fatigue crack growth, 8A606
- Overview and applications of the reproducing Kernel Particle methods, 9A22
- Patterns of deformation in phase transformations and Luders bands, 9A488
- Dynamic fracture using element-free Galerkin methods, 9A838
- Enforcement of essential boundary conditions in meshless approximations using FEs, 12A16
- Self-similar crack expansion method for the stress intensity factor analysis, 12A738
BELZUNCE, FJ: Two parameter fracture criterion for high strength low carbon steel, 8A635
BEMIS, K: Effect of Prolonged exposure to 750 deg/C air on the tribological performance of PM212: Self-lubricating composite material, 2T1061
BEMPORAD, GA: Theoretical study of a laminar jet in a double-diffusion environment, 5A948
- Experimental study of a laminar jet in a double-diffusion environment, 5A949
BEN KHALED, A: Flow field and performance characteristics of combustor diffusers: A basic study, 5A1279
BEN-ARTZI, M: Recent developments of the GRP method, 4A78
BEN-ASHER, JZ: Minimum-time reorientation of two-dof gyroscope, 1A92
- Linear quadratic pursuit-evasion games with terminal velocity constraints, 8T313
BEN-DOR, G: Reconsiderstion of the state-of-the-art of the shock wave reflection phenomenon in steady flows, 1A241
BEN-DOR, G: Head-on interaction of planar shock waves with ideal rigid open-cell porous materials: Analytical model, 1A239
- Reconsideration of oblique shock wave reflections in steady flows - Part 2: Numerical investigation, 4A285
- Reconsideration of oblique shock wave reflections in steady flows - Part 1: Experimental investigation, 4A266
- Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, 5A1305
- Compressive stress-strain relations and shock Hugoniot curves of flexible foams, 5A444
- Numerical confirmation of the hysteresis phenomenon in the regular to the Mach reflection transition in steady flows, 5T222
- Evolution of the balance equations in saturated thermoelastic porous media following abrupt simultaneous changes in pressure and temperature, 5A1296
- Shock dynamics theory based analytical solution of double Mach reflections, 5A212
- Oblique-shock and expansion-fan interaction: Analytical solution, 7T1079
- Simple waves in saturated porous media - I: The isothermal case, 11A920
- Numerical investigation of shock wave reflections in steady flows, 11A914
BEN-HAIM, Y: Updating linear elastic models with modal selective sensitivity, 1A845
- Non-probabilistic measure of reliability of linear systems based on expansion of convex models, 2A743
- Convex models of uncertainty for small initial imperfections of nonlinear structures, 6A490
- Maximum structural response using convex models, 10A129
BEN-PORAT, G: Solution of unbounded domain problems using elliptic artifical boundaries, 2A237
BEN-TAL, A: Optimal maneuver of a flexible arm by space-time FEM, 4T366
BEN-YU, GUO: Fourier-Chebyshev spectral method for the 2D Navier-Stokes equations, 12A1058
BEN-ZION, Y: Simple re-derivation of logarithmic discordering of a dynamic planar crack due to small random heterogeneities, 1A590
BENABDALLAH, H: Small depth indentation of UHMW (polyethylene), 3A725
BENAISSA, A: Spectral contribution of coherent motions in a turbulent boundary layer, 4A1087
BENAJES, J: Modeling of supercharger turbines in internal-combustion engines, 12A1176
BENALLAL, A: Localization analysis via a geometrical method, 2A355
BENAMATI, G: Hydrogen embrittlement characterization by disk pressure tests: Test analysis and application to high chromium martensitic steels, 10A744
BENAROYA, H: Localization and the effects of irregularities in structures, 4A220
- Parameter study of localization, 6A114
- Nonlinear dynamics of an articulated tower in the ocean, 7A974
- Van Kampen expansion for linked Duffing-linear oscillators excited by colored noise, 10A62
- Vibration localization in multi-coupled and multi-dimensional near-periodic structures, 10A127
BENASSI, A: Assessment of normal testis growth by quantitative texture analysis of 2D echo images, 1T1458
BENCHEKCHOU, B: Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Cheese-head bolts, 4A488
- Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, 4A11
BENCKERT, LR: Tensile impact delamination of a cross-ply interface studied by moire photography, 3A702
BENDAT, JS: Identification of physical parameters with memory in nonlinear systems, 5A305
BENDSOE, MP: Optimization of Structural Topology, Shape, and Material, 7R11
- Design for maximal flexibility as a simple computational model of damage, 6A713
- New approach to variable-topology shape design using a constraint on perimeter, 8A718
- Optimization of structure and material properties for solids composed of softening material, 9A891
BENEDETTI, A: Simple and effective equilibrium models for vibration analysis of curved rods, 10A155
BENEDETTO, D: Convergence of velicity blobs method for the Euler equation, 9A1061
BENFRATELLO, S: Non-Gaussian approach for stochastic analysis of offshore structures, 3A816
- Pseudo-force method for a stochastic analysis of nonlinear systems, 9A173
- Influence of the quadratic term in the alongwind stochastic response of SDOF structures, 12A847
BENGERI, M: Influence of the thermal assembly on the rotational behavior of a elastic-plastic shrink fit, 1T1289
BENGTSSON, JP: Fiber optic strain gauge linearization, 1A849
BENHABIB, B: CAD-based off-line planning for active vision, 2A307
- Des-theory-based hybrid supervisory control system for manufacturing systems, 10A500
BENILAN, P: Parabolic equation with slow and fast diffusions, 5T1203
BENITEZ, FG: Elastic stress and displacement distribution in an orthotropic multilayered system due to a concentrated load, 5A423
- Boundary element method based on the 3D elastostatic fundamental solution for the orthotropic multilayered space: Application to composite materials, 12A577
BENITEZ, MA: New process for releasing micromechanical structures in surface micromachining, 10T468
- Surface micromachining technology applied to the fabrication of a FET pressure sensor, 10A471
BENJAMIN, AC: Portable FORTRAN programming tools in the development of a structural analysis program, 2A777
BENJAMIN, RF: Nonlinear growth of the shock-accelerated instability of a thin fluid layer, 1A240
BENJAMIN, RJ: Nucleate pool boiling heat transfer of pure liquids at low to moderate heat fluxes, 11A1164
BENJAMIN, SE: Effect of temperature and chloride content on corrosion potential of iron in chloride contaminated mortars, 2A593
- Effect of mix proportions on corrosion of Swedish Iron in ordinary Portland cement mortars at elevated temperatures, 2A592
BENJAMIN, TB: Verification of the Benjamin-Lighthill conjecture about steady water waves, 1A235
BENJEDDOU, A: A B-spline FE for the dynamic analysis of sandwich shells of revolution, 11A119
BENKHALIFA, M: Viscous air flow pattern in the Stefan diffusion tube: Application to the mutual diffusion in a porous media, 1A1308
BENKHEROUF, L: Optimal drilling strategies for oil exploration with a generalized action space, 7A1390
BENKIRAN, T: Study of a perturbed boundary optimal control system, 6A292
BENMADDA, M: Transient natural convection from a finned surface for thermal storage in an enclosure, 6A1087
BENMEDAKHENE, S: Residual strength of a glass-polypropylene composite material subjected to impact, 3A500
BENMEDDOUR, A: Grid influence on upwind schemes for the Euler and Navier-Stokes equations, 9A88
BENMERZOUK, D: Stability and sensitivity analysis of the robotic computed torque technique using a regular perturbation approach, 4A413
BENMOKRANE, B: Flexural response of concrete beams reinforced with FRP reinforcing bars, 7A937
BENNACER, R: Cooperating thermosolutal convection in enclosures - II: Heat transfer and flow structure, 11A1261
- Cooperating thermosolutal convection in enclosures - I: Scale analysis and mass transfer, 11A1260
BENNAGE, WA: Discrete and continuous variable structural optimization using tabu search, 1A869
- Topological optimization of truss structures using simulated annealing, 2A734
- Optimization of truss topology using tabu search, 4A793
BENNATI, S: Approximate explicit solution for the local torsion of an elastic layer, 7A502
BENNE, ME: Pressure sensitive paint in transonic wind-tunnel testing of the F-15, 7A1200
BENNECEUR, S: Aerodynamic interaction study of the propellen-wing under different flow configurations, 7A1178
BENNETHUM, LS: Multi-scale theory of swelling porous media - I: Application to 1D consolidation, 2A1214
BENNETT, AF: Stability analysis of operator splitting for large-scale ocean modeling, 7A1389
BENNETT, G: Plate wave flow patterns for ply orientation imaging in reinforced composites, 9A267
BENNETT, GJ: Multidisciplinary design optimization of lumber transpedicular screws, 6A856
BENNETT, J: Theoretical study on the influence of some constituent material properties on the behavior of 1-3 connectivity composite transducers, 3A747
BENNETT, JA: Automotive occupant dynamics optimization, 3A194
BENNETT, MS: Wave propagation in circular cylindrical shells with periodic axial curvature, 12A216
BENNETT, RJH: Fatigue shear strength of slender web plates, 2A578
BENNETT, SJ: Particle size and velocity discrimination in a sediment-laden turbulent flow using phase Doppler anemometry, 5A913

BENNOUNA, M: Operation of a four-bar mechanism above several critical speeds, 10A83
BENOCCI, C: Two-layer approximate boundary conditions for large-eddy simulations, 11A997
BENOIT, E: Experimental study and modeling of oscillating flow of high density polyethylenes, 11A851
BENRABAH, A: Behavioral study of a reinforced analogical soil under external loads, 12A656
BENSABAT, J: Simulation of immiscible multiphase flow in porous media: A focus on the capillary fringe of oil-contaminated aquifers, 9A1364
BENSON, CH: Infiltration and saturated hydraulic conductivity of compacted clay, 2A1170
- Electrical resistivity of compacted clays, 10A651
BENSON, DJ: Effects of void cluster size on ductile fracture, 1A793
BENSON, DM: Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, 4A776
BENSON, RC: Study of cross-width variations in the 2D foil bearing problem, 10A997
BENSON, SW: Kinetic model for formation of aromatics in the high temperature chlorination of methane, 5A1233
BENT, AL: Complex double-couple source mechanism for the Mg. 7.2 1929 Grand Banks earthquake, 2A1228
- Source parameters of the damaging Cornwall-Massena earthquake of 1944 from regional waveforms, 11A1356
BENTHIEN, GW: Hybrid method for predicting the complete scattering function from limited data, 5A290
BENTSON, J: Measurements of supersonic wing tip vortices, 3A987
BENTZ, DP: Modeling drying shrinkage of cement paste and mortar - Part 1: Structural models from nanometers to millimeters, 3A487
BENVENISTE, Y: Thermal expansion of polycrystalline aggregates consisting of elongated crystals and containing cylindrical pores or inclusions, 6A1173
BENVENUTO, G: Analysis of free-piston Stirling engine-linear alternator systems - Part 1: Theory, 2A1192
- Analysis of free-piston Stirling engine-linear alternator systems - Part 2: Results, 2A1193
BENZ, N: Gas heat conduction in evacuated flat-plate solar collectors: Analysis and reduction, 3A1369
BENZ, P: Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, 10A1363
BENZEGGAGH, ML: Residual strength of a glass-polypropylene composite material subjected to impact, 3A500
- Micromechanical modeling of matrix degradation in randomly oriented discontinuous-fiber composites, 5A651
- Experimental determination of TSAI failure tensorial terms F_{ij} for unidirectional composite materials, 5A643
- Measurement of mixed-mode delamination fracture toughness of unidirectional glass-epoxy composites with mixed-mode bending apparatus, 11A683
BENZLEY, SE: Generalized 3D paving: Automated quadrilateral surface mesh generation algorithm, 10A45
BEOM, HG: Asymptotic analysis of a subinterface crack in dissimilar orthotropic media, 4A741
- Near-tip fields and intensity factors for interfacial cracks in dissimilar anisotropic piezoelectric media, 10A812
BEPPU, H: Direct numerical simulation of a turbulent flow in a channel having periodic pressure gradient, 5A939
BERA, RK: Nonlinear thermal vibration of nonhomogeneous elastic shell, 11A125
BERAN, PS: Temporal evolution of 3D vortex breakdown from steady, axisymmetric solutions, 8T972
BERANEK, L: Interaural cross-correlation, lateral fraction, and low- and high-frequency sound levels as measures of acoustical quality in concert halls, 1A336
BERANGER, A-S: Fatigue failure maps of heterogeneous materials, 7A787
BERBENTE, C: Explicit formula for calculation of velocity distribution along thin profiles (curved plates) in cascade, 11A905
BERCEA, I: Dynamic analysis of tapered roller bearing under fully flooded conditions - Part 1: Theoretical formulation, 3A75
- Dynamic analysis of tapered roller bearings under fully flooded conditions - Part 2: Results, 3A76
BERCHENKO, NN: Magnetotransport characterization of HgCdTe solid solutions structural quality, 6A520
BERCIN, AN: Analysis of orthotropic plate structures by the direct-dynamic stiffness method, 2T101
- Natural frequencies of cross-ply laminated singly-curved panels, 8A137
- Application of the dynamic stiffness technique to the in-plane vibrations of plate structures, 9A198
- Assessment of the effects of in-plane vibrations on the energy flow between coupled plates, 10A171
BEREAUX, Y: Numerical simulation of complex flows of non-Newtonian fluids using the stream tube method and memory integral constitute equations, 2A389
- Numerical simulation of viscoelastic complex flows using the stream-tube method and optimization algorithms, 4A966
BEREKSI REGUIG, F: Design of an FECG scalp electrode fetal heart rate monitor, 7T1410
BERENSTEIN, CA: Integral geometry in hyperbolic spaces and electrical impedance tomography, 11A1202
BERES, A: Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, 11A1404
BERESIN, VL: Synthesis of the dispersion curves for a cylindrical shell on the basis of approximate theories, 7A153
BERESNEV , IA: P-wave amplification by near-surface deposits at different excitation levels, 3A1313
BERESNEV, IA: Accuracy of soil response estimates using soil-to-rock spectral ratios, 11A1401
- Moderate-magnitude seismicity remotely triggered in the Taiwan region by large earthquakes around the Philippine Sea plate, 12A1360
BERETTA, E: Stability in crack determination from electrostatic measurements at the boundary: A numerical investigation, 3A716
BEREZIN, AV: Technological stresses in a composite plate with a honeycomb filler, 6A485
BEREZOVSKI, A: Vorticity distributions for thick and thin viscous vortex pairs and rings, 9A1064
BERG, AM: Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, 3A249
BERG, JC: Comparison of the work of adhesion obtained from wetting and vapor adsorption measurements, 8A853
BERGAMASCHI, S: Nonlinear vibrations in the tethered satellite system-mission 1, 8A152
BERGAN, AT: Mechanistic evaluation of fly ash asphalt concrete mixtures, 7A546
BERGE, PA: Critique of two explicit schemes for estimating elastic properties of multiphase composites, 9A857
BERGELES, G: Modeling wall impaction of diesel sprays, 11A1303
BERGENE, T: Model calculations on a flat-plate solar heat collector with integrated solar cells, 5A1349
BERGENGREN, Y: Influence of machining defects and inclusions on the fatigue properties of a hardened spring steel, 3A651
BERGER, BS: Attractor embedding in metal cutting, 1T717
- Characteristics of dimension functions associated with cutting measurements, 5A156
- Phase coupling in orthogonal cutting, 10T707
BERGER, H: Nondestructive Inspection of Composite Materials, 8N19
BERGER, JR: Elastic Green's function for a damaged interface in anistropic materials, 7A859
BERGER, M: Evolution of helicity in the presence of turbulence: The limit of passive diffusion, 8T984
- Logical valuation of connectives for fuzzy control by partial differential equations, 9A409
BERGER, RC: Finite element model for high-velocity channels, 2T14
BERGERMAN, M: Dynamic coupling index for underactuated manipulators, 2A298
BERGESON, KL: Thermal expansion of concretes: Case study in Iowa, 3A491
BERGGREN, M: Computational approach to controllability issues for flow-related models - II: Control of 2D, linear advection-diffusion and Stokes models, 12T372
BERGLER, H: "Convective" flat plate collectors and their applications, 3A1363
BERGLES, AE: Transformer cooler performance: Analysis and experiment, 7A1266
- Critical heat flux and pressure drop of subcooled flow boiling in small-diameter tubes with twisted-tape inserts, 8A1133
BERGLUND, B: Sources and effects of low-frequency noise, 10A370
BERGLUND, LJ: Accuracy of a video strain measurement system, 10A1482
BERGMAN, LA: Robust control of a slewing beam system, 1A414
- Vibrations of a system with an eigenfrequency identical to that of one of its subsystems, 5A103
- Green's function synthesis for sandwiched distributed parameter systems, 10A195
BERGMAN, M: Procedure for analysis of leak before break in pipes subjected to fatigue or IGSCC accounting for complex crack shapes, 3A657
- Stress intensity factors for circumferential surface cracks in pipes, 3A683
BERGMAN, TL: Mixed convection in horizontal channels with discrete material and top exhaust, 1A1205
- Simulation of 2D thermosolutal convection in liquid metals induced by horizontal temperature and species gradients, 12A1296
BERGMANN, G: Patient monitoring system for load measurement with spinal fixation devices, 7A1413
BERGNER, F: Influence of the depth position on the neutron embrittlement of the VVER reactor pressure vessel steel 15Cr2Mo V(A) consequences for the assessment of reactor safety, 4A1351
BERGSMA, OK: Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, 12A830
BERGSTRAND, L: Development of femoral atherosclerosis in relation to flow disturbances, 8A1432
BERGSTROM , H: Spectra, variances and length scales in a marine stable boundary layer dominated by a low level jet, 6A1294
BERGSTROM, L: Transient properties of a developing laminar disturbance in pipe Poiseuille flow, 4A1038
- Nonlinear behavior of transiently amplified disturbances in pipe Poiseuille flow, 4A1055
BERIS, AN: Effect of artifical stress diffusivity on the stability of numerical calculations and the flow dynamics of time-dependent viscoelastic flows, 3A453
- Uniformly valid approximations for the conformational integrals resulting from Gaussian closure in the Hookean dumbbell model with internal viscosity, 4A910
- Spectral collocation-domain decomposition method for viscoelastic flow simulations in model porous geometries, 8A1323
- Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, 10A1076
BERK, BC: Protein kinases as mediators of fluid shear stress stimulated signal transduction in endothelial cells: A hypothesis for calcium-dependent and calcium-independent events activated by flow, 5A1390
BERKE, L: Merits and limitations of optimality criteria method for structural optimization, 2A725
- Structural optimization using the Newton modified barrier method, 6A725
BERKER, A: Non-Newtonian cavitation analysis in journal bearings, 1A1149
BERKHOUT, AJ: Multichannel impulse responses for outdoor sound propagation, 1A347
BERKOOZ, G: Local models of spatio-temporally complex fields, 8A988
BERKOVITS, A: Estimation of loads causing fatigue failures in accident investigations, 4A675
BERKOVSKY, B: Magnetic Fluids and Applications Handbook and Database, 10N28
BERKOWSKI, P: Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, 1A54
BERLAND, S: Shear softening and thixotropic properties of wheat flour doughs in dynamic testing at high shear strain, 5A860
BERLEMONT, A: Heat and mass transfer coupling between vaporizing droplets and turbulence using a Lagrangian approach, 1A1244
BERLINER, MJ: Wave propagation in fluid-loaded, transversely isotropic cylinders - Part I: Analytical formulation, 9A311
- Wave propagation in fluid-loaded, transversely isotropic cylinders - Part II: Numerical results, 9A312
BERLYAND, L: Effective elastic moduli of a soft medium with hard polygonal inclusions and extremal behavior of effective Poisson's ratio, 4A435
BERMAN, AT: Six-dof instrumented linkage for measuring the flexibility characteristics of the ankle joint complex, 12A1480
BERNAL, LP: Velocity field measurements of cavitating flows, 6A995
BERNARD, D: ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, 6A1104
- Towards realistic flow modeling - Creation and evaluation of 2D simulated porous media: An image analysis approach, 11A1325
BERNARD, ES: Flange curling in profiled steel decks, 7A952
- Design methods for profiled steel decks with intermediate stiffeners, 12A848
BERNARD, JE: Using Pade approximants and curve-fitting to approximate eigenvalues and eigenvectors for large design changes, 8A39
BERNARD, M: Effect of re-coldworking on fatigue life enhancement of a fastener hole, 1A763
BERNARD, P: Dynamics of a stochastic oscillator with impacts, 10A74
BERNARD, PS: Vorticity transport analysis of turbulent flows, 5A973
- Modeling of the turbulent enstrophy equation, 11A1005
BERNARDIN, D: Optimal time re-entry of vehicles by asymptotic matching, 6A318
BERNARDIN, JD: Experimental and statistical investigation of changes in surface roughness associated with spray quenching, 10A1345
BERNER, JM: Micromechanics model for damage and failure analyses of laminated fibrous composites, 2A676
BERNHARD, DM: Pressure drop in corrugated pipes, 12A1119
BERNHARD, RJ: Adaptive passive vibration control, 7A393
- Reference transducer selection for active control of structure-borne road noise in automobile interiors, 9A376
- Variation of structural-acoustical characteristics of automotive vehicles, 10A351
BERNHARDT, C: Particle Size Analysis: Classification and Sedimentation Methods, 4R27
BERNIER, G: Mechanical properties of reactive powder concrete, 11A759
BERNITSAS, MM: Effect of mooring line arrangement on the dynamics of spread mooring systems, 8A1002
BERNOFF, AJ: Intrinsic equation of interfacial motion for the solidification of a pure hypercooled melt, 1A1260
- Singularities in a modified Kuramoto-Sivashinsky equation describing interface motion for phase transition, 1A1261
BERNS, GS: Strain in the medial collateral ligament of the human knee under single and combined loads, 6A1318
BERNSPANG, L: Solution of quasi-static, force-driven problems by means of a dynamic-explicit approach and an adaptive loading procedure, 11A589
BERNSTEIN, DS: Global asymptotic stabilization of the spinning top, 1A91
- Energy flow modeling of interconnected structures: A deterministic foundation for statistical energy analysis, 3A108
- Nonlinear feedback control with global stabilization, 3T330
- Optimal nonlinear, but continuous, feedback control of systems with saturating actuators, 3T328
- Real structured singular value synthesis using the scaled Popov criterion, 4T344
- Optimal tradeoff between H_2 performance and tracking accuracy in servocompensator synthesis, 4A353
- Global stabilization of the spinning top with mass imbalance, 6A94
- Real-μ bounds based on fixed shapes in the Nyquist plane: Parabolas, hyperbolas, cissoids, nephroids and octomorphs, 7T378
- Global stabilization of the oscillating eccentric rotor, 10A105
BERNSTEIN, Y: High-order element for prebuckling and buckling analysis of laminated plane frames, 12A633
BERO, C: Rubbery cure shrinkage model for analyzing encapsulated assemblies, 3A449
BERRONE, LR: Temporary range of validity for some mathematical models which involve the heat-diffusion equation, 7A1242
BERRY, A: Sound field of a baffled piston source covered by a porous medium layer, 1A319
- Vibration and sound radiation of a cylindrical shell under a circumferentially moving load, 3A252
- Construction of a simply supported rectangular plate for noise and vibration studies, 7A367
BERRY, DT: Formulation and experimental verification of a pneumatic FE, 9A74
BERRY, JL: Change in trabecular architecture as measured by fractal dimension, 10A1461
BERRY, T: On-line controller implementation for attentuation of synchronous and transient rotor vibration, 12A409
BERRYMAN, JG: Critique of two explicit schemes for estimating elastic properties of multiphase composites, 9A857
BERSHADER, D: Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
BERT, CW: Differential quadrature method in computational mechanics: A review, 3A53
- Computational models for sandwich panels and shells, 6A483
- Free vibration analysis of tapered rectangular plates by differential quadrature method: A semi-analytical approach, 7A157
- Free vibration analysis of thin cylindrical shells by the differential quadrature method, 7A172
- Differential quadrature and Rayleigh-Ritz methods to determine the fundamental frequencies of simply supported rectangular plates with linearly varying thickness, 7A154
- Semianalytical differential quadrature solution for free-vibration analysis of rectangular plates, 8A118
- Differential quadrature method for irregular domains and application to plate vibration, 8A51
- Static analysis of a curved shaft subjected to end torques, 8A483
- Implementing multiple boundary conditions in the DQ solution of higher-order PDEs: Application to free vibration of plates, 9A200
- Static analyses of beams and plates by spline collocation method, 10A603
- Vibration and buckling analysis of circular arches using DQM, 11A132
- Relative effects of transverse shear deformation and rotatory inertia on the free vibration of symmetric cross-ply laminated plates, 12A190
BERTACHINI DE ALMEIDA PRADO, AF: Transfer orbits in the earth-moon system using a regularized model, 12T392
BERTETTO, AM: Evaluation of the influence of geometry and of material properties at free edges and at corners of composite laminates, 1A557

BERTHAUD, Y: Extensions of the pseudo tractions technique for friction in cracks, circular cavities and external boundaries: Effect of the interactions on the homogenized stiffness, 8A664

BERTHET, MP: ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, 9A530

BERTHOLD, D: Corrected collocation methods for periodic pseudodifferential equations, 1A56

BERTINI, L: Hydrogen embrittlement characterization by disk pressure tests: Test analysis and application to high chromium martensitic steels, 10A744

- Effective stress intensity factor and contact stress for a partially closed Griffith crack in bending, 12A735

BERTOLUZZA, S: A posteriori error estimates for the wavelet Galerkin method, 2A51

BERTONI, H: Diffracted effects due to guided modes on finite (truncated) structure elements, 3A227

BERTOZZI, AL: Singularities in a modified Kuramoto-Sivashinsky equation describing interface motion for phase transition, 1A1261

- Symmetric singularity formation in lubrication-type equations for interface motion, 11A1256

BERTRAM, A: Determination of finite plastic deformations in single crystals, 1A494

BERTRAND , J-P: "Convective" flat plate collectors and their applications, 3A1363

BERTSEKAS, DP: Thevenin decomposition and large-scale optimization, 10T417

BERVEILLER, M: Micromechanical modeling of the transformation induced plasticity (TRIP) phenomenon in steels, 2A396

BERZI, P: Identification of a percussive drill rod joint from its response to stress wave loading, 7A219

BES, T: Thermal performances of codirected cross-flow heat exchangers, 10A1311

BESINGER, FH: Force control of a semi-active damper, 3A371

BESKOS, DE: Dynamic inelastic structural analysis by BEMs, 2A718

- Studies on dual reciprocity BEM for elastodynamic analysis, 7A246

- Harmonic wave response of two 3D rigid surface foundations, 8A140

- Three-dimensional response analysis of long lined tunnels in half-space, 8A1345

BESLIN, O: Panel dynamic response to a reverberant acoustic field, 2A218

- Use of an "Ectoplasm" to predict free vibrations of plates with cut-outs, 10A179

BESNARD, DC: Spectral transport model for turbulence, 7A1132

BESPALOVA, EI: Natural vibrations of an anisotropic plate, 9A201

BESSAC, F: Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, 10A123

BESSHI, T: Effects of surface-finishing condition and annealing on transformation sensitivity of 3 mol% Y_2O_3 stabilized tetragonal zirconia surface under interaction of lubricant, 12A928

BESSINGER, FH: Control strategies for semi-active lorry suspensions, 10A213

BESSOLOVA, OA: Fatigue damage calculation for cyclic and random loading with nonzero mean value, 10T738

BEST, JL: Particle size and velocity discrimination in a sediment-laden turbulent flow using phase Doppler anemometry, 5A913

BEST, JP: Experimental investigation of buoyant transient cavity collapse near rigid cylindrical boundaries, 9A1129

BEST, PE: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260

BEST, R: Experimental performance of the water-lithium chloride system in a heat transformer, 2A1142

BEST, TM: Axial strain measurements in skeletal muscle at various strain rates, 5A1362

BESTAOUI, Y: Stability and sensitivity analysis of the robotic computed torque technique using a regular perturbation approach, 4A413

BESTEK, H: Spatial numerical simulations of linear and weakly nonlinear wave instabilities in supersonic boundary layers, 11A916

BESTLE, D: IUTAM Symposium on Optimization of Mechanical Systems - Proc of IUTAM Symp, Stuttgart, Germany, March 1995, 11N15

BETEGON, C: Two parameter fracture criterion for high strength low carbon steel, 8A635

BETENSKY, H: Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, 5A1378

BETHANCOURT, AM: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126

BETROS, RS: Mechanical validation of smart structures, 11T737

BETSCH, P: Assumed strain approach avoiding artificial thickness straining for a nonlinear 4-node shell element, 4A562

- Four-node finite shell element for the implementation of general hyperelastic 3D-elasticity at finite strains, 12A602

BETTAHAR, O: Analysis of plate bending problems using the regular direct BEM, 8A487

BETTEN, J: Tensorial constitutive equations for describing the anisotropic creep behavior of isotropic material after plastic prestrain (German), 5A457

BETTESS, P: Adaptive analysis of stiffened structures using stiffened plate bending elements, 1A617

- Theoretical formulations for adaptive FE computations, 3A34

- Notes on mesh optimal criteria in adaptive FE computations, 4A37

- Revised mapping functions for 3D Serendipity infinite elements, 9A82

BETTI, R: Active tendon control systems for structures subjected to multiple support excitation, 2A278

- Elastic composite beams, 8A479

BEUKEMA, GJ: Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869

BEUKERS, A: Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, 12A830

BEULLENS, D: Multi-axial strain gage with octagonal shape, 10T466

BEUTH, JL: Residual stress-driven delamination in deposited multi-layers, 2A600

BEUTHER, PD: X-wire response in turbulent flows of high-intensity turbulence and low mean velocities, 6A1051

BEY, KS: hp-version discontinuous Galerkin methods for hyperbolic conservation laws: A parallel adaptive strategy, 4A31

- Parallel hp-adaptive discontinuous Galerkin method for hyperbolic conservation laws, 12A80

BEYER, HG: Multiresolution analysis of satellite-derived irradiance maps: An evaluation of a new tool for the spatial characterization of hourly irradiance fields, 1A1429

- Modifications of the Heliosat procedure for irradiance estimates from satellite images, 9A1422

BEYERLEIN, IJ: Statistics for the strength and size effects of microcomposites with four carbon fibers in epoxy resin, 9A781

- Comparison of shear-lag theory and continuum fracture mechanics for modeling fiber and matrix stresses in an elastic cracked composite lamina, 11A673

BEYERS, ME: Flat spin of axisymmetric bodies, 5A1003

- Ground facility interference effects on slender vehicle unsteady aerodynamics, 7A1166

BEYLICH, AE: Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, 7T1080

- Performance of a hypersonic twin-nozzle system, 10A1154

BEYNNON, B: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458

BEYNON, JH: Rolling contact fatigue of three pearlitic rail steels, 10A982

BEZMELNITSIN, AV: Transition to detonation in vented hydrogen-air explosions, 3A242

BEZMENOV, VY: Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094

BEZRODNY, MK: Closed two-phase thermosyphons for industrial heat transfer: Fundamental questions for effective application, 3A1146

- Burnout of counter-current two-phase flow in a horizontal channel (Polish), 9A1180

BEZVERKHIY, AI: Vertical travels of a beakon-like buoy with measuring line on waves, 9A310

BEZVESILNAYA, EN: Increasing the measurement accuracy of gravity force acceleration, 7T121

- Autocompensation of errors of the gyroscope integration of linear accelerations, 7A98

BEZYAZICHNY, VF: Investigation of tool wear my means of similarity theory, 6T798

BHALERAO, MS: Growth-of-waviness in fiber-reinforced polymer composites: Viscoelastic bifurcation and imperfection sensitivity, 12A544

BHANSALI, AP: Local, instantaneous heat transfer coefficients for jet impingement on a phase change surface, 11A1101

BHARDWAJ, M: Shape sensitivity analysis of divergence dynamic pressure, 1T178

BHARGAVA, SK: Characterization of preferential flow paths in compacted sand-clay mixtures, 1A692

BHASKAR, K: Buckling under axial compression of thin-walled composite beams exhibiting extension-twist coupling, 1A638

BHAT , RB: Study of the modal behavior of the human hand-arm system, 9T1454

BHAT, DG: Development of a graded TiCN coating for cemented carbide cutting tools: A design approach, 3A834

BHAT, GS: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18

- Experimental study of a jet with local buoyancy enhancement, 1A1063

BHAT, RB: Natural frequencies of edge restrained tapered rectangular plates, 1A150

- Natural vibration of a cavity backed rectangular plate using a receptor-rejector system model, 5A279

- Prediction of hydrodynamic thrust bearing performance using the modified Trefftz method, 6A1046

- Effect of normal mode contents in assumed deflection shapes in Rayleigh-Ritz method, 7A156

- Natural frequencies of orthotropic rectangular plates obtained by iterative reduction of the partial differential equation, 7A160

- Vibration of rectangular plates using plate characteristic functions as shape functions in the Rayleigh-Ritz method, 12A171

BHAT, RK: 1-pentene oxidation and its interaction with nitric oxide in the low and negative temperature coefficient regions, 9A1327

BHATIA, K: Analytical solutions for bending of clamped layered composite plates using a higher-order theory, 5A509

BHATIA, SK: Geotextile characterization and pore-size distribution - Part II: A review of test methods and results, 12A660

BHATIA, V: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222

- Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342

- Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882

- Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, 7A884

BHATIA, VK: Experimental investigation for agglomeration of aerosols in alternating electric fields, 4A1284

BHATNAGAR, RK: Exact solutions for some simple flows of an Oldroyd-B fluid, 5A888

BHATT, BS: Similarity solutions for the squeezed film flow between two rotating naturally permeable discs, 11A883

BHATT, V: Partitioning the parameter space according to different behaviors during 3D impacts, 5A187

BHATTACHARJEE, D: Effect of mixed mode I and II loading on the fracture surface of polymethyl methacrylate, 6A637

BHATTACHARJEE, JK: Convective instability in rotating liquid ^{3}He-^{4}He mixtures, 11A981

BHATTACHARJEE, RC: Power law fluid model incorporated into elastohydrodynamic lubrication theory of line contact, 12T1192

BHATTACHARJEE, S: Simplified theory for de Ris flame over thick and thin fuel beds, 7A1308

- Effect of ambient pressure on flame spread over thin cellulosic fuel in a quiescent, microgravity environment, 8A1274

BHATTACHARJEE, SS: Fracture response of gravity dams due to rise of reservoir elevation, 1A914

BHATTACHARYA, P: Evaporation of multicomponent liquid fuel droplets, 11A1179

BHATTACHARYA, S: Modeling of rotational factor in notched bend specimen under general and local yield situation, 4A714

BHATTACHARYA, SC: Study on the combustibility of torrefied wood oil-water mixture droplets, 8A1269

BHATTACHARYA, SS: Mechanistic model for boundary sliding controlled optimal superplastic flow - II: Experimental verification, 10A512

- Mechanistic model for boundary sliding controlled optimal superplastic flow - I: Theory, 10A511

BHATTACHARYYA, A: Role of thermoelectric heat transfer in the design of SMA actuators: Theoretical modeling and experiment, 7A1239

BHATTACHARYYA, R: Stability theorem for Hill's equation for engineering applications, 5T538

BHATTACHARYYA, S: Energy impact of air leakage through insulated walls, 3A1161

- Unsteady compressible flow due to relative rotation and translation of a viscous fluid on a disk, 8A919

- Transient compressible boundary layer on a wedge impulsively set into motion, 10A1141

BHATTACHARYYA, SK: Numerical study of a Fourier approximation method for nonlinear gravity waves, 1A237

- Finite element analysis of fluid-structure interaction effect on liquid retaining structures due to sloshing, 10A321

BHATTACHARYYA, SP: Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series, 12R12

BHATTI, MA: Nonlinear fatigue damage model for concrete in tension, 4A744

BHATTI, MH: Performance indicators for steady-state heat transfer through fin assemblies, 11A1102

BHATTI, TS: Dynamics and control of isolated wind-diesel power systems, 3A1379

BHAVANI, JA: Ultrasonic studies of thermodynamic fluctuations in (2,2,2-trifluoroethan-1-ol + benzene), (benzene + dimethylsulfoxide) and (2,2,2-trifluoroethan-1-ol + dimethylsulfoxide) at 298.15K, 2A185

BHAVE, PR: Reliability-based design of water-distribution systems, 6T876

BHAVIKATTI, SS: Influence lines for bending moments in beams on elastic foundations, 5A493

BHOWMIK, NG: Distribution of turbulent velocity fluctuations in a natural river, 4A926

- Return flow in rivers due to navigation traffic, 6T888

BHUSHAN, B: Handbook of Micro/Nanotribology, 6N22

- Effect of interchanging tapes and head contour on the durability of metal evaporated, metal particle and barium ferrite magnetic tapes, 2T803

- Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769

- Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler, 5A797

- Tribological and dynamic behavior of alternative magnetic tape substrates, 5A804

- Tribological performance of magnetic thin-film glass disks: Its relation to surface roughness and lubricant structure and its thickness, 5A805

- Mechanical and tribological properties of hard carbon coatings for magnetic recording heads, 5A801

- Friction and wear studies of various head materials and magnetic tapes in a linear mode accelerated test using a new nano-scratch wear measurement technique, 5A813

- Role of tape abrasivity on friction, wear, staining and signal degradation in audio tapes, 5A802

- Surface roughness analysis of glass-ceramic substrates and finished magnetic disks, and Ni-P coated Al-Mg and glass substrates, 5A803

- Contact mechanics of rough surfaces in tribology: Single asperity contact, 7A996

- Asymmetric buckling of layered orthotropic circular and annular plates of varying thickness using a computationally economic semianalytical FE approach, 7A657

- Ultrathin liquid lubrication of magnetic head-rigid disk interface for near-contact recording - Part I: A closed-form solution to the Reynolds equation, 10A998

- Ultrathin liquid lubrication of magnetic head, rigid disk interface for near-contact recording - Part II: Shear thinning and thermal thinning, 10A959

- Post-buckling of moderately thick elliptical plates, 12A612

BHUTTA, MA: Near net shape spline forging: An experimental investigation and a simple upper bound analysis, 3A602

- Computer simulation to predict stresses and die loads during metal flow in incremental heading of shaped heads from cylindrical rods and some experiments, 3A597

- Computer simulation to predict stresses, working pressures, and deformation modes in incremental forging of spur gear forms, 12A678

- Near-net shape forging of spur gear forms: An analysis and some experiments, 12A681

BI, J: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834

BIALKIEWICZ, J: Computer analysis of damage development in rectangular plates, 1A834

- Damage development in boundary layers of Mindlin-Reissner plates, 3A715

- Damage development in boundary layers of Mindlin-Reissner plates, 9A602

BIAN , FENGSHENG: Inverse analysis method of displacements in rock engineering (Chinese), 9A687

BIAN, W: Effect of an electromagnetic field on natural convection in an inclined porous layer, 8A1111

- Effect of an external magnetic field on buoyancy-driven flow in a shallow porous cavity, 11A1151

BIAN, X: Numerical solution of the inviscid stagnation-flow solidification problem, 4A1208

- Inviscid stagnation-flow solidification problem, 8A1169

BIANCHI, G: Theory and Practice of Robots and Manipulators - Proc of RoManSy 10: Tenth CISM-IFToMM Symp, 5N13

BIANCHI, MVA: Initial values searching method for solving non-similar boundary layer problems by the local non-similarity model, 7A1099

BIANCHINI, E: Time domain modeling of linear viscoelasticity using anelastic displacement fields, 5A454

- Finite element modeling of 1D viscoelastic structures using anelastic displacement fields, 11A9

BIANCHINI, M: Identification of parameters in polymer crystallization, 2A451

BIBB, JS: Liapunov-Floquet transformation: Computation and applications to periodic systems, 10A88

BIBBY, M: Predicting 800 to 500 degrees C weld cooling times by using backpropagation neural networks, 10A450

BIBEN, C: Shocks detection in a piping system network (French), 11A164

BIBERGER, M: Analysis of creep transients in pure metals following stress changes, 1A478

BIBIKOV, YN: Existence of quasiperiodic motions in quasilinear systems, 1A115

BICANIC, N: Computational aspects of a softening plasticity model for plain concrete, 10A561

BICHIR, S: Reflection characteristics of longitudinal waves in a semi-infinite cylindrical rod connected to an infinite viscoelastic structure, 9A270

BICKERTON, S: Modeling and simulation of resin transfer molding: Gate control, venting, and dry spot prediction, 6A584
BIDABADI, M: Quenching distance of laminar flame in aluminum dust clouds, 9A1313
BIDANDA, B: Parametric design and NC code generation of countersink cutting tools, 8A366
BIEDRON, RT: Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, 8A990
BIEGA, V: Adaptive-critic-based neural networks for aircraft optimal control, 12A399
BIEGERT, LL: Plasma spray treatments for steel adherends, 8A855
BIELAWSKI, D: Optimal solutions of boundary value problems for differential equations, 4T79
BIELAWSKI, SS: Construction of an algebraically reduced system for the acceleration of preconditioned conjugate gradients, 12A74
BIELERT, U: Application of front tracking techniques to the turbulent combustion processes in a single stroke device, 12A1322
BIELIKOVA, M: Modeling software systems in configuration management, 9A128
BIELLA, G: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
BIEN, ZEUNGNAM: Study on robustness of iterative learning control with non-zero initial error, 12A339
BIESELT, R: Determination of limits for smallest detectable and largest subcritical leakage cracks in piping systems, 3A1359
BIEZIN, PB: Use of aramide filaments (SVM) in the structure of bicomponent threads, 6A433
BIFANO, TG: Stress and strain analysis in molecular dynamics simulation of solids, 12A95
BIGGERS JR, SB: Finite element approach to 3D singular stress states in anisotropic multi-material wedges and junctions, 2A377
- Singular antiplane stress fields for bonded and disbonded three-material junctions, 4A737
BIGONI, D: Flutter instability in elastoplastic constitutive models, 1A6
BIGOT, G: Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, 6T1331
BIGRET, R: Balancing of rotating machines by influence coefficients with the help of numerical models (French), 7T177
- Rotating machines determination of influence coefficients from modal characteristics (French), 7A178
BIHARI, BL: Application of generalized wavelets: An adaptive multiresolution scheme, 4A286
BIJAK-ZOCHOWSKI, M: Development of plastic zones and residual stress in elasto-plastic contact problems with stress singularities in elastic range, 4A458
BILBY, BA: Experience in the use of damage mechanics to simulate crack behavior in specimens and structures, 1T796
- Implications of the use of the PD6493 level 3 failure assessment procedure, 6A689
- Use of constraint-modified failure assessment lines in failure assessment diagrams, 12A749
BILGEN, E: Convective heat transfer in an annular fluid layer with centrifugal force field, 1A1207
- Convective heat transfer in an annular porous layer with centrifugal force field, 1A1218
- Natural convection and conduction in massive wall solar collectors with honeycomb and without vents, 3A1370
- Natural convection heat transfer in a rectangular enclosure with a transverse magnetic field, 3A1042
- Double-diffusive convection in an inclined slot filled with porous medium, 4A1243
- Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, 4A1169
- Effect of an electromagnetic field on natural convection in an inclined porous layer, 8A1111
- Effect of an external magnetic field on buoyancy-driven flow in a shallow porous cavity, 11A1151
BILGEN, M: Mean and variance of the ultrasonic signal from a scatterer beneath a rough surface: Theory, 3A265
BILGER, RW: Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, 2A1183
- PDF integrals for self-similar turbulent flows, 5T1259
- Method for contour-aligned smoothing of joint 2D scalar images in turbulent flames, 5T1220
- Eddy break-up coefficient, 7A1309
- Experimental study of a reactive plume in grid turbulence, 10A1179
BILICKI, Z: Evaluation of the relaxation time of heat and mass exchange in the liquid-vapor bubble flow, 5A1161
- Viscous term in the model of two-phase bubble flow, 9A1126
BILISZCZUK, J: Efficiency analysis of prestressing by forced deformations of the RC floor in continuous bridge (Polish), 10A894
- Moment redistribution in continuous RC bridges which spans are cast in segments (Polish), 10A916
BILITZA, D: Experimental validation of particle model drift theories, 10A945
BILLAH, KYR: Stochastic averaging versus physical consistency, 7A132
BILLARD, EA: Stability of dynamic groups in distributed computing systems, 7T80
BILLARDON, R: Fatigue failure maps of heterogeneous materials, 7A787
BILLIG, FS: Supersonic combustion ramjet missile, 4A1272
BILLINGHAM, J: Interaction of a moving fluid-fluid interface with a flat plate, 1A1032
BILLINGS, SA: Computation of nonlinear transfer functions when constant terms are present, 2A247
- Model validation tests for multivariable nonlinear models including neural networks, 2A244
- Improved structure selection for nonlinear models based on term clustering, 2T249
- Identification of linear and nonlinear continuous time models from sampled data sets, 5A304
- Unwrapping the phase response functions for nonlinear systems, 5A310
- Smoothing data with local instabilities for the identification of chaotic systems, 8A269
BILLINGTON, CJ: Current issues and technologies for the reassessment of existing offshore installations, 9A955
BILLIOTTE, M: Shock-tube analysis of argon influence in titan radiative environment, 6A926
BILLO, RE: Parametric design and NC code generation of countersink cutting tools, 8A366
BILTOFT, CA: Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
- Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, 11A1434
BINDA, L: Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, 3A520
BINDON, JP: Flow in a second-stage nozzle of a low-speed axial turbine and its effect on tip clearance loss development, 5A1057
BINDZI, I: New formula for influence of spiral grain on bending stiffness of wooden beams, 3A792
BINGHAM, CE: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
BINIENDA, WK: Crack interaction in brittle anisotropic materials, 1A783
- Driving force analysis in an infinite anisotropic plate with multiple crack interactions, 2A663
BIPPES, H: Disturbance growth in an unstable 3D boundary layer and its dependence on environmental conditions, 12A1140
BIRD, GA: Molecular Gas Dynamics and the Direct Simulation of Gas Flows - Oxford Engineering Science Series, Vol 42, 4R25
BIRD, RB: Constitutive equations for polymeric liquids, 2A846
- Nonisothermal polymeric fluids, 10A1040
BIRINDELLI, I: Periodic solutions for a class of second order systems with a small forcing term, 12T68
BIRINGEN, S: Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, 3A1067
- Numerical simulation of a cylinder in uniform flow: Application of a virtual boundary method, 7T1064
BIRK, A: Combustion of Han-based liquid propellant sprays at 28 to 38 MPA, 3A1225
BIRK, GT: Three-dimensional plasma-neutral gas-fluid code, 11A929
BIRMAN, V: Creep buckling and rupture of columns with arbitrary symmetric cross section, 1A675
BIRMAN, YE: The dynamics of the precessional motions of a system of two rigid bodies in a gravitational field, 2A524
BIRNBAUM, HK: Modeling of hydrogen transport and elastically accommodated hydride formation near a crack tip, 7A822
BIRON, D: Shocks detection in a piping system network (French), 11A164
BISAKA, T: Numerical simulation of forced wakes around a cylinder, 5A893
BISBEE, LS: Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, 9A1100
BISBOS, CD: Debonding effect in saddles: Comparison of the performance of Flugge's and Sanders' shell theories, 1A612
- Comparison of two methods for the solution of a class of nonconvex energy problems using convex minimization algorithms, 2A369
- Behavior of circular cylindrical shells due to local debonding, 8A490
- Effect of liquid filling in saddle-supported pipelines, 12A872
BISEGNA, P: Variational bounds for the overall properties of piezoelectric composites, 8A465
- Bounds on the off-diagonal coefficients of the homogenized constitutive tensor of a composite material, 11T465
BISH, RL: Transverse deflection of a cold-worked metal plate clamped around its edge, 9A508
BISHOP, JE: Equivalence of the mechanical and entropic descriptions of elastothermodynamic damping in composite materials, 11A467
BISHOP, K: Hartmann wave front sensor studies of dynamic organized structure in flowfields, 4A1131
BISHOP, PJ: Coupled FDM-BEM solution for the conjugate heat transfer problem, 1A1212
BISHOP, RH: Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93, 12N10
- Adaptive orbit determination for interplanetary spacecraft, 11A305
BISHOP, SR: Transient response of a constrained beam subjected to narrow-brand random excitation, 2T95
- Zones of chaotic behavior in the parametrically excited pendulum, 7A119
- Locating oscillatory orbits of the parametrically-excited pendulum, 11A76
BISIO, G: Combined helium and combustion gas turbine plant exploiting liquid hydrogen (LH_2) physical exergy, 10A1392
- Exergy analysis of thermal energy storage with specific remarks on the variation of the environmental temperature, 11A1239
BISON, PG: Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, 4A1202
BISPLINGHOFF, RL: Aeroelasticity, 12N5
BISSIEUX, C: Thermoelastic stress analysis with standard thermographic equipment by means of statistical noise rejection, 10T1346
BISWAL, KC: Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, 12A179
BISWAS, R: Unstructured adaptive mesh computations of rotorcraft high-speed impulsive noise, 1A291
- Computation of helicopter rotor acoustics in forward flight, 1A1132
- Mesh quality control for multiply-refined tetrahedral grids, 12A45
BISWAS, S: New approach to evaluate the deflection of a thrust pad on an elastic support, 6T835
BITTES, G: Relationship between inclusionary deposits and the wear of cutting tools, 6A800
BITZARAKIS, S: Three-dimensional simulation of structural pounding during earthquakes, 10A1435
- Domain decomposition PCG methods for serial and parallel processing, 12A849
BIWA, S: Critical stretch for formation of a cylindrical void in a compressible hyperelastic material, 5A402
BIZZAK, D: Temperature measurement of a curved surface using thermographic phosphors, 4A1128
BJARNEHED, H: Fatigue life model for general rolling contact with application to wheel-rail damage, 3A832
BJARNEHED, HL: Routine FE determination of stress intensity factors using a Muller-Breslau influence function technique, 3A682
BJORK, F: Study on seam performance of polymer-modified bituminous roofing membranes using T-peel test and microscopy, 9A794
BJORSTAD, PE: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
BLAAUWENDRAAD, J: Two approaches for the analysis of masonry structures: Micro and macro-modeling, 11A765
- Stringer panel model for structural concrete design, 11A764
BLACHUT, J: Stability of complete circular and non-circular toroidal shells, 2A501
BLACK, AJ: Metallic sliding friction under boundary lubricated conditions: Investigation of the influence of lubricant at the start of sliding, 5A776
BLACK, J: Laser propulsion 10-kW thruster test program results, 4A1276
BLACK, JT: Fuzzy logic based approach for Pokayoke stoplight control in unmanned manufacturing cells, 7A471
BLACK, KP: Magnitude and cross-shore distribution of bed return flow measured on natural beaches, 2T176
- Sediment transport near the break point associated with cross-shore gradients in vertical eddy diffusivity, 7T1049
BLACK, RA: Novel video technique for visualizing flow structures in cardiovascular models, 6A1359
- Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
BLACK, RG: Parameter study of an internal timber tension connection, 10A929
BLACK, TA: E-e modeling of turbulent air flow downwind of a model forest edge, 8T1362
BLACK, WZ: Effect of line Doppler shift on plume infrared signatures, 3A1131
- Thermal analysis of continuous filament-wound composites, 8A1229
- Local, instantaneous heat transfer coefficients for jet impingement on a phase change surface, 11A1101
BLACKBURN, HM: Effect of free-stream turbulence on sectional lift forces on a circular cylinder, 7A1163
- Topology of fine-scale motions in turbulent channel flow, 9A1188
BLACKBURN, TR: Method for improving autopilot lag compensation in intercept guidance, 11T311
BLACKBURN, WS: Numerical simulation of the initiation and growth of new fatigue cracks following crack intersections, 1A742
- Boundary element analysis of crack intersection, initiation and growth at pin loaded holes, 2A46
- Contour integrals for 2D thermoelastic cracked bodies, 5A1198
BLACKER, TD: Generalized 3D paving: Automated quadrilateral surface mesh generation algorithm, 10A45
BLACKIE, AP: Effect of pitch distance, row spacing, end distance and bolt diameter on multi-fastened composite joints, 6A446
- Stress distributions in multi-fastened composite plates, 12A7
BLACKMAN, DK: Recording teleseismic earthquakes using ocean-bottom seismographs at mid-ocean ridges, 6A1260
BLACKMORE, A: Principles of localized buckling for a strut on an elastoplastic foundation, 9A622
BLACKSTOCK, DT: Time-domain modeling of finite-amplitude sound in relaxing fluids, 12A313
BLACKWELL, BF: Application of moving grid control volume FEM to ablation problems, 10A1353
BLAES, B: Clementine dosimetry, 5A741
BLAHA, P: Comparison of 2D line clipping algorithms, 1A69
BLAIN, WR: Computer Aided Design in Composite Technology V - Proc of 5th Int Conf, CADCOMP 96, Udine, Italy, July 1996, 12N20
BLAISDELL, GA: Evaluation of the dynamic model for simulations of compressible decaying isotropic turbulence, 10A1172
BLAJER, W: Effect of friction on multibody dynamics, 3A84
BLAKE, A: Symmetry theory of planar grasp, 2A294
BLAKE, JB: Charged-particle telescope experiment on Clementine, 5A739
BLAKE, JR: Application of the boundary integral method to the interaction of rising 2D deformable gas bubbles, 2A932
BLAKE, N: Statistical mechanical model of solidification, 3A1121
BLANC, RH: Nonlinear viscoelastic behavior of nylon fiber, 11A439
BLANCHARD, DG: Contact conductance of selected metal-matrix composites, 1A1259
- Thermal contact conductance of diamond-like films, 6A1118
BLANCHARD, PJ: Cycle time reduction in resin transfer molding by phased catalyst injection, 9A719
BLANCHARD, RC: Orbital acceleration research experiment: Calibration measurements, 1A271
BLANCHET, TA: Model for polymer composite wear behavior including preferential load support and surface accumulation of filler particulates, 2T802
BLANCHINI, F: Constrained stability with an assigned initial condition set, 2T254
BLANCO, C: Coating cracks in materials with general anisotropy, 1A826
BLAND, JA: Discrete-variable optimal structural design using tabu search, 3A756
BLANDFORD, GE: FE model for thin-walled space frame flexible connection behavior, 2A783
- Progressive failure analysis of inelastic space truss structures, 5A732
- Large deformation analysis of inelastic space truss structures, 10A925
BLANKENSHIP, GW: Steady state forced response of a mechanical oscillator with combined parametric excitation and clearance type nonlinearity, 2A143
BLANKEVOORT, L: Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, 6A1308
- In vitro laxity-testers for knee joints of mice, 10T1465
- Validation of a 3D model of the knee, 12A1454
BLANPAIN, B: Oxidational wear of TiN costings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
- Calibration procedures for frictional measurements with a lateral force microscope, 10A1001
BLANZE, C: Modular approach to structure assembly computations: Applications to contact problems, 9A939
BLASBALG, DA: Numerical study of two-phase mechanical seal stability, 2A819
BLAVIER, E: Stationary quasi-Newtonian flow obeying a power-law, 2A889
BLAYLOCK, NW: Scale model experiments with ceramic laminate targets, 5A197
BLAZEJOWSKI, J: Theoretical methods in thermodynamics of condensed phases, 4A1137
- Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, 4A1138
BLAZQUEZ, A: Contact problems with nonconforming discretizations using BEM, 2A372
- Simplified numerical analysis of residual stresses in aluminum welded plates, 3A441

BLEKHMAN, II: Synchronization and chaotization in interacting dynamic systems, 1A106
BLESS, RR: FEM for the solution of state-constrained optimal control problems, 3A23
BLESS, SJ: L/D effect for long-rod penetrators, 7A255
BLEVINS, JA: Investigation of microwave attenuation measurements in a laboratory-scale rocket motor plume, 5T250
BLEVINS, LG: Radiometric measurements of wall temperatures in the 800 K to 1150 K range for a quartz radiant heating tube, 3T1132
- Study of radiant tube flame structure and NO_x emissions, 7A1324
BLICK, RH: Novel technique of pulse-echo ultrasound detection in the RF-frequency range, 9A395
BLIESENER, G: Combustion of Han-based liquid propellant sprays at 28 to 38 MPA, 3A1225
BLIESKE, U: Two-stage concentrator permitting concentration factors up to 300X with one-axis tracking, 9A1418
BLIN-SIMIAND, N: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
BLINOVA, VT: Method of finding asymtotic forms at the common apex of elastic wedges, 2A382
BLINOWSKI, A: Stress distribution in bending of strongly anisotropic beams, 1A596
- Elastic orthotropy, 9A472
- Two-dimensional Hooke's tensors: Isotropic decomposition, effective symmetry criteria, 10A523
BLISS, DB: Alternative solution of the kernel function in subsonic unsteady lifting surface theory, 4T1107
BLIZNYUK, VN: Reconstruction of fluid Langmuir monolayers under shear forces, 10T1232
BLJUGER, F: Optimization problem solution in reliability analysis of reinforced concrete structures, 12A844
BLOCH, HP: Practical Guide to Steam Turbine Technology, 9N19
BLOEBAUM, CL: Multidisciplinary design optimization of lumbar transpedicular screws, 6A856
BLOEMEN, PJH: Interlayer exchange coupling and giant magnetoresistance in magnetic multilayers, 9A644
BLOM, A: Experimental robustness study of a second-order sliding mode controller, 9A415
BLOM, AF: Spectrum fatigue behavior of welded joints, 4A677
BLOM, C: Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869
BLOM, P: Turbulent free-surface flow over sills, 4A923
BLONDEAUX, P: Sea ripple formation: The heterogeneous sediment case, 2T861
- Nonlinear excitation of synchronous edge waves by a monochromatic wave normally approaching a plane beach, 4A265
- Mass transport under sea waves propagating over a rippled bed, 11A196
BLONDET, M: Parameter study of an internal timber tension connection, 10A929
BLONK, B: Elastodynamic inverse scattering method for removing scattered surface waves from field data, 3A1288
BLOOM, JM: Plane strain crack growth models for fatigue crack growth life predictions, 7A778
BLOOR, MIG: Efficient parametrization of generic aircraft geometry, 5A736
BLOSCH, EL: Scalability and performance of data-parallel pressure-based multigrid methods for viscous flows, 11T882
BLOTTER, JD: Identification of energy sources and sinks in plates by means of a scanning laser Doppler vibrometer, 10A175
BLOTZ, LR: Electrical resistivity of compacted clays, 10A651
BLOUET, J: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
BLOUIN, D: Determination of heat transfer coefficient between PVC and steel in vacuum extrusion calibrators, 6A1113
BLOWEY, JF: Numerical analysis of a model for phase separation of a multi-component alloy, 6A22
- Error bound for the FE approximation of a model for phase separation of a multi-component alloy, 9A44
BLOWNEY, JF: Error bound for the FE approximation of the Cahn-Hilliard equation with logarithmic free energy, 4A24
BLOY, AW: Trailing vortex effects on large receiver aircraft, 5A1011
- Lateral and directional stability and control in air-to-air refueling, 6A1022
BLOYCE, A: Unlubricated rolling-sliding wear mechanisms of complex aluminum bronze against steel, 12A915
BLUCK, MJ: Analysis of 3D transient acoustic wave propagation using the boundary integral equation method, 10A372
BLUM, FD: Hybrid phenolic friction composites containing Kevlar pulp - Part I: Enhancement of friction and wear performance, 12A891
- Hybrid phenolic friction composites containing Kevlar pulp - Part II: Wear surface characteristics, 12A929
BLUM, J: Stability of boiling systems, 12A1232
BLUMBERG SELINGER, RL: Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409, 8N15
BLUMBERG, H: Effects of fiber-matrix adhesion on off-axis mechanical response in carbon-fiber-epoxy resin composites, 2A418
BLUME, JA: Fracture toughness of niobium-alumina interfaces: An analysis based on a micromechanical model, 4A757
- Lie group and invariant solutions of the plane-strain equations of motion of a neo-Hookean solid, 12A479
BLUME, S: Radar cross section of the semi-infinite elliptic cone: Numerical evaluation, 4A588
BLUMS, E: Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995, 1N35
BLUNSDON, CA: Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, 8A1275
- Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, 8A1276
BLUNT, M: Three-phase flow and gravity drainage in porous media, 4A1311
BO, T: Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, 5A1141
BO, ZHONGHE: Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, 11A468
BOARDMAN, BT: Hydraulic conductivity of desiccated geosynthetic clay liners, 8A534
BOATENG, AA: Thermal model for the rotary kiln including heat transfer within the bed, 10A1378
BOBBERT, MF: Mechanical output from individual muscles during explosive leg extensions: The role of biarticular muscles, 8A1417
- Influence of the parameters of a human triceps surae muscle model on the isometric torque-angle relationship, 9A1438
BOBBIO, SM: Integrated force arrays: Theory and modeling of static operation, 5A350
BOBKOV, NN: Model of the hydrodynamic interaction between inhomogeneities in a fluidized bed, 1A1366
BOBROW, JE: Lie group formulation of robot dynamics, 4A399
- Active truss element and control law for vibration suppression, 7A133
BOBYLEV, AV: Numerical simulation of the stationary 1D Boltzmann equation by particle methods, 8T924
- Exact and asymptotic stationary solutions of the semicontinuous Boltzmann equation, 10A1111
BOCCACCINI, AR: New equation for the determination of the thermal expansion coefficient of particulate composites, 12A532
BOCHENEK, A: Appreciation of experimental methods usefulness to analyzing metals embrittlement phenomeny, 9A775
BOCHEV, P: Analysis and computation of adaptive moving grids by deformation, 12A38
BOCHEV, PV: Least-squares methods for the velocity-pressure-stress formulation of the Stokes equations, 4A947
BOCHYNSKI, Z: Structure and molecular correlation of liquid alkanes, 6A872
- Molecular correlations in liquid mono-and Dichloroalkanes, 10A1054
BOCK, O: Parametric motor control: A new approach to the control of point-to-point manipulator movements, 5A374
BOCKHORN, H: Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, 10A1363
BOCKOWSKI, M: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704
BOCKRATH, GE: Theoretical approach for evaluating the plane strain fracture toughness of ductile metals, 9A813
BODARE, A: Live load induced vibrations in Ullevi stadium: Dynamic soil analysis, 9A668
BODARSKI, Z: Common way of estimation of cable forces (Polish), 3A524
BODE, L: Arbitrary Lagrangian-Eulerian FE analysis of strain localization in transient problems, 5A8
BODEN, H: Note on the aeroacoustic source character of in-duct axial fans, 3A253
- Maximum sound power from in-duct sources with applications to fans, 4T305
BODHOLT, H: Pre-stressing a Tonpilz transducer, 1A575
BODIG, J: Engineered wood construction: Structural properties for LRFD, 1A899
BODNER, SR: Incremental elastic-viscoplastic theory indicating a reduced modulus for non-proportional buckling, 1A510
BODUNOV, NM: Calculation of force parameters of shaping when bending thin-walled profile parts, 11A583
BODVARSSON, GS: Hydraulic conductivity of rock fractures, 10A1409
BODZAK, P: Computerized simulation of interaction between relieving structure and buried waste pipeline (Polish), 10A617
BOEDO, S: Cavitation in normal separation of square and circular plates, 5A1106
BOEHLER, JP: Statistical mechanics model of phase transformation of zirconia particles in ceramics, 7A550
BOEHM, S: Influence of cerium oxide on the formation and oxidation of soot, 7A1318
BOERSMA, BJ: Hydrodynamic stability of a sheared liquid film, 4A1066
- Large-Eddy simulation of turbulent flow in a curved pipe, 12A1122
BOFILL, F: Qualitative results for the linear theory of thermo-microstretch elastic solids, 4A1227
BOGAERT, R: Global performance of a prototype brazed plate heat exchanger in a large Reynolds number range, 8A1189
BOGARD, DG: Enhanced heat transfer and shear stress due to high free-stream turbulence, 5A967
- High freestream turbulence effects on turbulent boundary layers, 12A1150
BOGARDI, I: Impact of global climate change on temperature and precipitation in Greece, 1T1406
BOGDANOV, SA: Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, 10A1352
BOGDANOV, SY: Numerical computation of weak solutions of nonlinear motion equations stiffened cylindrical shells (Russian), 8A126
BOGDANOV, VL: Study of failure of the systems of half-restricted elastic material with a potential of harmonic type (Russian), 3A677
BOGDANOV, VR: Plane problem of the shell impact against elastic half-space (Russian), 7A256
BOGDANOVA, OS: Long-term crack-resistance of orthotropic viscoelastic plate under uniaxial loading, 9A808
BOGDANSKI, MS: Effect of Prolonged exposure to 750 deg/C air on the tribological performance of PM212: Self-lubricating composite material, 2T1061
BOGDUK, N: Biological basis for instantaneous centers of rotation of the vertebral column, 3A1403
- Modeling the muscles of the scapula morphometric and coordinate data and functional implications, 12A1456
BOGER, DV: Yield stress measurements with the vane, 12A1198
BOGETTI, TA: Literature review: Effects of hydrostatic pressure on the mechanical behavior of composite materials, 2A438
BOGOMOLOV, AI: Surface effect vehicle flight control system with properties of adaptation, 8A320
BOGUCKA, J: Influence of environmental moisture conditions upon the rate of water movement in concrete during the process of drying, 9A943
BOGUCKI, D: Generation of elastic waves in a piezoelectric plate by interdigital transducers, 1A206
- Propagation and scattering of APM in the piezoelectric plate with periodically corrugated surfaces, 1A329
BOGULSKII, IO: Spatial bending of a system of annular elements of the radial chain of a wave gearing, 12A959
BOGUSLAWSKI, A: Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, 8A926
BOGUSZ, B: Modal analysis of the acoustic field radiated from an unflanged cylindrical duct: Theory and measurement, 11A250
BOGY, DB: Rayleigh wave scattering by a wedge, 4A245
- Numerical simulation of head-disk impacts during dynamic loading processes, 5A762
- Numerical simulations of slider interaction with multiple asperity using Hertzian contact model, 5A763
- Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, 5T789
BOHATIER, C: Kinematic approach to dynamic contact problems - The geometrical soft way method, 1A464
BOHLKE, K: Fuel-efficient pulse command profiles for flexible spacecraft, 12A405
BOHMERT, J: Influence of the depth position on the neutron embrittlement of the VVER reactor pressure vessel steel 15Cr2Mo V(A) consequences for the assessment of reactor safety, 4A1351
BOHN, M: Principles of Heat Transfer, Revised Fifth Edition, 10N37
BOIANGIU, M: Study of torsional vibrations in systems with one dof by graphical method, 11A111
BOIKO, AV: Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1006
BOILLOT, A: Optimization procedure for pulse separation in cross-correlation PIV, 12A1208
BOIRON, G: Improvement of polypropylene film adhesion in multilayers by various chemical surface modifications, 7A1036
BOIRON, O: Numerical study of the compressible turbulent flow in a laser cavity, 1A1193
BOISSE, P: Computation of thin structures at large strains and large rotations using a simple C^0 isoparametric three-node shell element, 3A545
BOISSENIN, YM: Benefits of MS 6001B gas turbine in cogeneration: The UEM power plant case, 10A1391
BOISSY, R: Cell orientation response to cyclically deformed substrates: Experimental validation of a cell model, 5A1377
BOITSOV, YI: Identification of high-temperature mechanical properties of metals in designing technological equipment, 5T612
BOIVIN, M: Necessity of taking into account the variation in the Young modulus with plastic strain in elastic-plastic software, 11A462
BOIVIN, N: Nonlinear normal modes, invariance, and modal dynamics approximations of nonlinear systems, 4A122
BOJCZUK, D: Sensitivity analysis of truss and frame structures in critical states, 7A969
BOKA, JB: Stability analysis on earth observing system AM-1 spacecraft earth acquisition, 11T235
BOKELMANN, GHR: Azimuth and slowness deviations from the GERESS regional array, 3A1273
BOKOTA, A: Analysis of the diffusion-convection problem by the BEM, 3A1199
- Numerical prediction of the hardened zone in laser treatment of carbon steel, 6A1170
BOKSER, VD: Experimental investigation of the features of the boundary layer development on an airfoil, 10A1196
BOKUN, IA: Heat exchange between a surface and an oscillating layer of a moist material, 1A1365
BOLAND, F: Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, 1A537
BOLAND, J: Time-series analysis of climatic variables, 4A1355
BOLCS, A: Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, 5A1081
- Global performance of a prototype brazed plate heat exchanger in a large Reynolds number range, 8A1189
- Computation of unsteady 3D transonic nozzle flows using k-e turbulence closure, 12A1127
BOLDES, U: Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, 5T951
BOLINDER, CJ: Effect of torsion on the bifurcation structure of laminar flow in a helical square duct, 1A1057
- Flow visualization and LDV measurements of laminar flow in a helical square duct with finite pitch, 4T1040
- First- and higher-order effects of curvature and torsion on the flow in a helical rectangular duct, 11A963
BOLING, GUO: Global attractors for the periodic initial value problem for a coupled nonlinear wave equation, 7A264
BOLLAND, O: Air bottoming cycle: Use of gas turbine waste heat for power generation, 10A1390
BOLLE, L: Modelisation de la perte irreversible diphasique a travers une singularite (French), 2A929
BOLLENTIN, JW: Modeling the solar irradiation on flat plate collectors augmented with planar reflectors, 4A1354
BOLLER, A: Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, 11A1094
BOLOTIN, VV: Stability Problems in Fracture Mechanics - Wiley Series in Nonlinear Science, 12R18
- Mechanics of fatigue crack growth in a medium with micro-damage, 2A633
- Effect of damping forces on the postcritical behavior of substantially nonpotential systems, 5A81
- Prediction of the growth of internal fatigue cracks, 6A677
- Analytical model of fatigue crack growth retardation due to overloading, 7A856
- Reliability against fatigue fracture in the presence of sets of cracks, 8A600
- Secondary bifurcations and global instability of an aeroelastic nonlinear system in the divergence domain, 10A319
BOLOTNIK, NN: Parameter optimization for a tube-crawling robot, 10A484
- Motion of an absolutely rigid body on a two-dof joint in a uniform gravitational field, 12A90
BOLSHAKOV, A: Influence of stress on the measurement of mechanical properties using nanoindentation - Part II: FE Simulations, 8A697
BOLT, HM: Current issues and technologies for the reassessment of existing offshore installations, 9A955
BOLTON, AN: Unstable flow in centrifugal fans, 9A1236
BOLTON, JS: Design of low-noise centrifugal blowers - Part 1: Measurement and analysis procedures, 1A945
- Design of low-noise centrifugal blowers - Part 2: Optimization study, 1A946
- Sound cancellation by the use of secondary multipoles, 3A289

- Sound transmission through multi-panel structures lined with elastic porous materials, 10A350
- Finite element model for sound transmission through foam-lined double-panel structures, 10A352

BOLTON, MD: Cubic strain quadrilateral FE, 10A27
- Finite element analysis of centrifuge tests on reinforced embankments on soft clay, 12A667
- Centrifuge modeling of an embankment on soft clay reinforced with a geogrid, 12A659

BOLZERN, P: Optimal design of robust predictors for linear discrete-time systems, 2T251
- Optimal robust filtering with time-varying parameter uncertainty, 8T270

BOLZON, G: Elastoplastic soil constitutive laws generalized to partially saturated states, 12A642
- Hybrid FE approach to quasi-brittle fracture, 12A778

BOMMER, JJ: Prediction of horizontal response spectra in Europe, 9A1393

BOMMES, L: Effects of blade design on centrifugal fan noise and performance, 1A285

BONA, JL: Discretization of a model for the formation of longshore sand ridges, 3T884
- Analyticity of solitary-wave solutions of model equations for long waves, 10A285

BONACUSE, P: Stochastic parallel-brittle networks for modeling materials, 7A551

BONANNI, DL: Ply-level failure analysis of thick-section composite structures based on "smeared" FE results, 10A801

BOND, P: Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806

BOND, T: Theoretical formulations for adaptive FE computations, 3A34

BOND, TJ: Adaptive analysis of stiffened structures using stiffened plate bending elements, 1A617

BOND, VR: Modern Astrodynamics: Fundamentals and Perturbation Methods, 10R7

BONDAR, VS: Viscoplastic deformation and fracture of structural members under cyclic bending, 10A548

BONDARYK, JE: Hybrid processing structure for the analysis of scattering from stiffened, fluid-loaded cylindrical shells, 9A360

BONDURANT, PD: Laser-optical triangulation systems provide new capabilities for remote inspection of interior surfaces, 4T771

BONE, DJ: Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, 12A861

BONET AVALOS, J: Drag on a sphere in slow shear flow, 1A981

BONHAM, CD: Least squares regression vs geometric mean regression for ecotoxicology studies, 1A60

BONHAUS, DL: Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, 5A993

BONINI, J: Three-dimensional modeling of low velocity impact damage in composite laminates, 10A322

BONIS, M: Analytical approach for the determination of the dynamic coefficients of hybrid bearings, 3A1000

BONNARD, B: Toward a geometric theory in the time-minimal control of chemical batch reactors, 2T258

BONNEAU, D: EHD analysis, including structural inertia effects and a mass-conserving cavitation model, 5A1097

BONNET, A: Non-uniqueness for flame propagation when the Lewis number is less than 1, 1A1318
- New high supply pressure pneumatic flapper-nozzle with linear behavior, 12A427

BONNET, G: Steady-state power-law creep in "inclusion matrix" composite materials, 3A451
- Thermomechanical behavior of casting sands: Experiments and elastoplastic modeling, 12A1279

BONNET, JP: Experimental testing of diffusion models in a manipulated turbulent boundary layer, 2A939
- Experimental study of a normal shock-homogeneous turbulence interaction, 10A1181

BONORA, N: COD of off-centered cracks in pipes under bending load: A geometrical solution, 10A780

BOOU, R: Turbulent free-surface flow over sills, 4A923

BOOKER, JF: Cavitation in normal separation of square and circular plates, 5A1106

BOON, SA: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578

BOONE, MM: Multichannel impulse responses for outdoor sound propagation, 1A347

BOOT, JC: Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, 5A533

BOOTH, AS: Chebyshev methods of Panovsky and Richardson as Runge-Kutta-Nystrom methods, 4A59

BOOTH, DJ: Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, 2A689

BOOTH, RT: Role of human factors and safety culture in safety management, 2A1310

BOPP, PA: One-dimensional compression of sands at high pressures, 7A697
- Significance of particle crushing in granular materials, 9A657

BORCHERS, L: Measurement of tooth displacements and mouthpiece forces during brass instrument playing, 4A1370

BORDIGNON, KA: Closed-form solutions to constrained control allocation problem, 3T333
- Multiple control effector rate limiting, 6T301

BOREJKO, P: Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, 9A253

BORGES, JE: Study of the nozzle flow in a cross-flow turbine, 6A1028
- Iterative use of a time-marching code for designing turbomachine blade rows, 8A1030

BORGHESANI, C: Single-loop QFT design for robust performance in the presence of non-parametric uncertainties, 5A326

BORGHI, R: Stability in a model of turbulent combustion, 2A1185

BORGIEL, W: Anomalous reversible torque in layered superconducting $Bi_2Sr_2CaCu_2O_x$, 9A654

BORICIC, Z: MHD plane boundary layer on the body of pours contour, 1A1094
- Unsteady MHD boundary layer on a porous surface, 12A1160

BORINO, G: Dynamic shakedown of structures under repeated seismic loads, 6A1274
- Elastic-plastic-damage constitutive models with coupling internal variables, 7T530
- Dynamic shakedown of structures with variable appended masses and subjected to repeated excitations, 11A18

BORIS, J: Numerical simulations of flow modification of supersonic rectangular jets, 10A1163

BORIS, JP: Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, 12A67

BORISENKO, YN: Use of stimulated boundary gas release for determination of the adhesion of thin films by the blister test, 3A869

BORISENKOV, BI: Placement of passive and vibroactive objects on a floor, 10A154

BORISKIN, OF: Three-dimensional FE thermoelastic analysis of the dynamics and strength of engineering structures, 7T1290

BORISOV, VA: US and Russian thermal control coating results in low Earth orbit, 7A992

BORJA, RI: Micromechanics of granular media - Part I: Generation of overall constitutive equation for assemblies of circular disks, 4A599

BORK, I: Practical tuning of xylophone bars and resonators, 2A223

BORNAKKE, C: Gas and Steam Properties, 5N29

BORNEMANN, FA: A posteriori error estimates for elliptic problems in two and three space dimensions, 12A26

BORNERT, M: Morphologically representative pattern-based bounding in elasticity, 8A378

BÖRNSIDE, DE: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388

BORODACHEV, EV: Informational support of a system for dynamic diagnostics of cutting tool wear in turning, 6A829

BORODENKO , YN: Thermoelastic effect of a cylindrical shell with a solid body (Russian), 3A542

BORODII, MV: Ductile fracture of a pipe with a part-through slot, 1A791

BORODULYA, VA: Heat and mass transfer and modeling of combustion of low-grade solid fuels and combustible industrial wastes in a fluidized bed, 1A1364

BORODZIUK, S: Laser generation of ultrahigh pressures, 3A198

BOROUCHAKI, H: Fast Delaunay triangulation in 3Ds, 5A40

BOROVIK, OV: Peculiarities of free and induced oscillations in the systems with dry and viscous friction (Russian), 7T124

BOROWY, B: Sizing of a stand-alone hybrid wind-photovoltaic system using a three-event probability density approximation, 11A1432

BORREGO, LFP: Effects of surface treatments on the fatigue of notched bend specimens, 8A589

BORRI, A: Reliability and Optimization of Structural Systems, 10N24

BORRI, C: Numerical shape finding procedure for very thin shells, 2A468

BORUE, V: Numerical study of 3D Kolmogorov flow at high Reynolds numbers, 7A1135

BORZENKO, AP: Mathematical model of solid phase extrusion for polymer composite materials (Russian), 8A548

BORZENKOV, SM: Semi-analytical singular elements in plane and spatial problems of elasticity, 10T6
- Semianalytical singular element and its application to stress calculation and optimization, 10A35

BOS, K: Mathematical modeling in measurements of unsteady flows with ultrasonic flowmeters, 1A984

BOSAK, M: Bifurcation for quasi-variational inequalities of reaction-diffusion type, 2T1186

BOSCHI, E: Forecasting where larger crustal earthquakes are likely to occur in Italy in the near future, 3A1282

BOSCHITSCH, AH: Rotor aerodynamic loads computation using a constant vorticity contour free wake model, 2A1028

BOSE, B: Verifying the performance of standard ductile connections for semi-continuous steel frames, 7A960
- Appraisal of the design rules in Eurocode 3 for bolted end-plate joints by comparison with experimental results, 11A770

BOSE, D: Kinetics of the $N_2 + O \rightarrow NO + N$ reaction under thermodynamic nonequilibrium, 6A1198

BOSE, SC: Parallel approach of the inverse kinematics solutions for robots using a transputer network, 11A344

BOSE, SK: Clear water scour at circular piers: A model, 6T881
- Ultrasonic plane SH wave reflection from a unidirectional fibrous composite slab, 12A797

BOSE, TK: Comparison of different turbulence models for prediction of slot-film cooling: Flow and temperature field, 1A1086

BOSELA, PA: Geometric stiffness effects on data recovery of an idealized mast-blanket model, 7A201
- New pre-loaded membrane geometric stiffness matrix with full rigid body capabilities, 11A514

BOSELY, DL: Asymptotic analysis of a class of 3 dof Hamiltonian systems near stable equilibria, 4A111

BOSGRA, OH: Open-channel flow model approximation for controller design, 1A971

BOSMANS, I: Structure-born sound transmission between thin orthotropic plates: Analytical solutions, 9A343

BOSS, E: Stability of a potential vorticity front: From quasi-geostrophy to shallow water, 11A982

BOSS, MJ: Medway: A high-efficiency combinad cycle power plant design, 5A1283

BOSSEBOEUF, A: Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, 10T459

BOSSI, BW: Predictions of low aspect ratio missile aerodynamics, 1A1020

BOSSI, RH: Composite structure development decisions using X-ray CT measurements, 2A703

BOSSIS, G: Stokesian dynamics simulation of Brownian suspensions, 11A930

BOSTROM, A: Ultrasonic wave propagation through a cracked solid, 4A239

BOSWELL, LF: Special issue on jack-ups, 2A790

BOTELLO, S: Plastic damage constitutive model for composite materials, 11A660

BOTEZ, RM: Dynamics of an articulated cylinder in annular flow via nonlinear and partially-linearized versions of an analytical model, 11A222

BOTKIN, ME: Shape organization with buckling and stress constraints, 7T1019

BOTSIS, J: Effect of mechanical constraint on the flow and fracture of 63-37 Sn-Pb eutectic alloy, 2A628
- Crack propagation in a model composite, 9A837

BOTT, JDJ: 1986 Crested Butte earthquake swarm and its implications for seismogenesis in Colorado, 3A1271

BOTTA, N: Inviscid transonic flow about a cylinder, 4A989

BOTTEGA, WJ: Planar-tensile representation of edge debonding in patch panels under pressure, 7A1038

BOTTELDOOREN, D: Finite-difference time-domain simulation of low-frequency room acoustic problems, 5A288

BOTTOMLEY, IE: Superplastic forming and diffusion bonding of aircraft structures, 2A798

BOU-SAID, B: Boundary element method for transient viscoelastic flow: The MPTT model, 8A413

BOUABDALLAH, MS: Formulation and evaluation of a FE model for the linear analysis of stiffened composite cylindrical panels, 11A34

BOUARD, L: Comparison between three turbulent models: Application to thermohydrodynamic performances of tilting-pad journal bearings, 8T809

BOUBAKAR, ML: Finite element modeling of the stamping of anisotropic sheet metals, 11T586

BOUBNOV, BM: Convection in Rotating Fluids - Fluid Mechanics and Its Applications Series, 2R50
- Source-sink turbulence in a rotating stratified fluid, 2A989

BOUC, R: Spectral response of asymmetrical random oscillators, 9A931

BOUCHARD, R: Strain rate effects on fracture toughness of ship plate steels, 11A691

BOUCHER, E: Strengthening of reinforced concrete beams with composite materials: Theoretical study, 4A804

BOUCHER, RF: Transmission line modeling of simulated drill strings undergoing water-hammer, 7A285

BOUCHERY, O: Flow through a submerged nozzle, 5A945

BOUCHON, M: Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, 6A1247
- Seismic response of a hill: The example of Tarzana, California, 11A1353
- Horizontal-to-vertical spectral ratio and geological conditions: The case of Garner Valley Downhole Array in southern California, 11A1340

BOUCHOU, A: Behavior and modelization of a 17 - 12 SPH stainless steel under cyclic, unidirectional and bidirectional anisothermal loadings, 11A454
- Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part II: Modeling, 12A517
- Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part I: Behavior, 12A516

BOUDET, R: Dynamic analysis of a thrust bearing-effect of misalignment and load, 1T1145

BOUDREAU, R: Solving the forward kinematics of parallel manipulators with a genetic algorithm, 7A437

BOUGARD, J: Adsorption of propane, propylene, and propadiene on activated carbon, 8A1372

BOUGEAULT, P: Atmospheric boundary layer - Advances in knowledge and application, 12A1420

BOUHADDI, N: Model reduction by a simplified variant of dynamic condensation, 9A211
- Substructuring by a two-level dynamic condensation method, 12A212

BOUHADEF, K: Non-Darcian forced convection analysis in an annulus partially filled with a porous material, 5A1154

BOUHROUM, A: Experimental and numerical simulation of solute transport in heterogeneous porous media, 8A1310

BOUILLET, JE: Parabolic equation with slow and fast diffusions, 5T1203

BOUIX, J: ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, 9A530

BOUKAS, E-K: Decentralized feedback controllers for uncertain interconnected systems with Markovian jumping parameters, 1A382

BOUKAS, EK: Minimax production planning in failure-prone manufacturing systems, 4A422

BOUKHAROUBA, T: Use of notch stress intensity factor as a fatigue crack initiation parameter, 2A564

BOULANGER, B: Modeling the flow of power law fluids in a packed bed using a volume-averaged equation of motion, 11A1322

BOULANGER, P: Further properties of finite-amplitude plane waves in deformed Mooney-Rivlin materials, 1A184
- Sonic boom propagation through a realistic turbulent atmosphere, 5A265
- Young's modulus for anisotropic media, 5T420

BOULANGER, RW: Liquefaction of sand under bidirectional monotonic and cyclic loading, 6A531
- Aspects of compaction grouting of liquefiable soil, 6A529

BOULMANE, L: Finite element modeling of the stamping of anisotropic sheet metals, 11T586

BOULOS, PF: Explicit mathematical models of distribution storage water quality, 2A1277
- Modeling distribution storage water quality: An analytical approach, 9A1300

BOULOS, SJ: Finite element analyses of irregular thick plates for signal pole design, 3A544

BOULTON-STONE, JM: Application of the boundary integral method to the interaction of rising 2D deformable gas bubbles, 2A932
- Effect of surfactant on bursting gas bubbles, 4A1011

BOUMA, PH: Numerical and experimental study of the no-emission of ceramic foam surface burners, 5A1216

BOUMEDIEN, A: Non-Darcian forced convection analysis in an annulus partially filled with a porous material, 5A1154

BOUNABAT, A: Study of a perturbed boundary optimal control system, 6A292

BOUNDS, S: Source-weighted domain integral approximation for linear transient heat conduction, 10A1297

BOUNIE, JL: Certification of the composite outer wing of the ATR72, 6A1012

BOURAS, B: Arbitrary blade section design based on viscous considerations: Blade optimization, 12A1180
- Arbitrary blade section design based on viscous considerations: Background information, 12A1179

BOURASSA, P: Nonlinear oscillations and chaotic motions in a road vehicle system with driver steering control, 7A110

BOURGEAT, A: Minimization of grid orientation effects in simulation of oil recovery processes through use of an unsplit higher order scheme, 7A1364
- Homogenization of a polymer flow through a porous medium, 8T1322

BOURGIN, P: First step towards the modeling of the thermoforming of plastic sheets, 6A550

BOURGUND, U: Fracture mechanical behavior of aggregate-cement matrix interfaces, 3A719

BOURKE, RH: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329

BOURMISTROV, AS: Nonlinear control law for aerial towed target, 4A376

BOURNASKI, EG: Combined distributed and lumped parameters model for transient flow analysis in complex pipe networks, 12A251

BOURNE, JP: Nonlinear diffusion controlled particle growth: A variational and asymptotic approach, 5A1202
BOURNOT, P: Numerical study of the compressible turbulent flow in a laser cavity, 1A1193
- Oscillatory flow convection in a melted pool, 6A1097
BOURTSEV, BN: Blade flap motion and lower-to-upper rotor blade tips clearances of coaxial helicopters, 7A1181
BOUSRI, Y: Use of double U-bar stirrups in seismically loaded reinforced concrete beam-column joints, 3A789
BOUSSAA, D: Finite pure bending of curved pipes, 12A593
BOUSSAID, S: Feedback representation of precompensators: Application decoupling linear multi-input multi-output plants, 8T278
- Feedback representation of precompensators: The general case, 8T259
BOUTER, P: Impact of diversity in aircraft noise ratings, 7A353
BOUTIER, A: Analysis of helicopter blade vortex structure by laser velocimetry, 12A1184
BOUTIN, C: Mechanical characterization of heterogeneous materials during setting, 1A860
- Microstructural influence on heat conduction, 2A1120
- Microstructural effects in elastic composites, 6A437
BOUVARD, D: Modeling the effective thermal conductivity of random packing of spheres through densification, 7A1247
- Thermomechanical behavior of casting sands: Experiments and elastoplastic modeling, 12A1279
BOUZIDI, A: Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, 6T1331
BOUZIT, D: Experimental investigation of vibration localization in disordered multi-span beams, 4A155
- Localization of vibration in disordered multi-span beams with damping, 4A159
BOVA, SW: Symmetric formulation and SUPG scheme for the shallow-water equations, 8T882
BOVIK, P: Comparison between the Tiersten model and O(H) boundary conditions for elastic surface waves guided by thin layers, 9A255
BOWCOCK, RW: Modeling distribution storage water quality: An analytical approach, 9A1300
BOWEN, AJ: Parametrization of orbital velocity asymmetries of shoaling and breaking waves using bispectral analysis, 5T203
BOWEN, P: In situ SEM measurements of crack closure for small fatigue cracks in aluminum 2024-T351, 1A758
- Influence of loading levels, temperature, and environment on fiber failure during the fatigue of an SiC fiber-reinforced Ti-MMC, 8A585
- Finite-element analysis of selectively SiC fiber-reinforced titanium composites, 10A12
BOWEN, RG: Study of the morphology of a discontinuous section of a first year arctic pressure ridge, 8A1404
BOWEN, TL: Design and development of the WR-21 intercooled recuperated (ICR) marine gas turbine, 5A1032
BOWER, MV: Analysis of laminated cylindrical shells with pre-loads, 2A472
BOWERS III, SV: Integrated strategy for predictive maintenance of AC induction motors, 5A685
BOWERS, JF: Vortical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
- Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, 11A1434
BOWERS, KL: Sinc methods for domain decomposition, 7A72
BOWERSOX, R: Transpiration cooling effects on nozzle heat transfer and performance, 5A947
- Effect of transpiration cooling on nozzle heat transfer, 12T1126
BOWERSOX, RDW: Measurements of compressible turbulent flow structure in a supersonic mixing layer, 4A1049
- Experimental investigation of supersonic gaseous injection into a supersonic freestream, 7A1112
- Performance characterization of a highly offset diffuser with vortex generator jets, 8A957
BOWLER , JR: Nondestructive Testing of Materials - Studies in Applied Electromagnetics and Mechanics, Vol 8, 11N34
BOWLES, DE: Prediction of thermal cycling-induced matrix cracking, 8A657
BOWLES, JV: Near-optimal propulsion-system operation for an air-breathing launch vehicle, 5A749
BOWLES, RGA: Short-scale effects on model boundary-layer spots, 1A1043
BOWMAN , KJ: Comparison of three mechanical models for cold roll bonding metal laminates, 9A697
BOWMAN, CT: CO×$_2$ chemiluminescence in premixed flames, 7A1315
BOWMAN, FM: Atmospheric chemistry of alternate fuels and reformulated gasoline components, 7A1329
BOWMAN, J: Transpiration cooling effects on nozzle heat transfer and performance, 5A947
BOWMAN, JC: Nonlinear symmetric stability of planetary atmospheres, 1A1408
- Inertial-range scaling laws, 7A1127
BOWMAN, MD: Fillet weld profile measurements, 2T835
BOWMAN, WJ: Longitudinal vibration effects on a copper-water heat pipe's capillary limit, 6A1150
- Effect of transpiration cooling on nozzle heat transfer, 12T1126
BOWNESS, D: Development of an accurate model for the fatigue assessment of doubly curved cracks in tubular joints, 7A775
BOYACI, H: Comparison of direct-pertubation methods with discretization-perturbation methods for nonlinear vibrations, 4T118
BOYADJIEV, C: Linear stability in systems with intensive mass transfer - III: Liquid-liquid, 11A1265
- Linear stability in systems with intensive mass transfer - II: Gas-liquid, 11A1264
- Linear stability in systems with intensive mass transfer - I: Gas (liquid)-solid, 11A1263
- Linear stability in systems with intensive mass transfer - IV: Gas-liquid film flow, 11A1266
BOYARSHINA, LG: Resonance phenomena under nonlinear oscillations of two-layered liquid (Russian), 3A199
BOYARSHINOV, MG: Objective function construction for the multi-criteria problems of cyclic bending, 2A398
BOYARSHINOVA, AK: Dynamics of high-speed rotors running in bearings with floating nonrotating bushings, 9A1011
BOYARSKI, S: Minimum-time reorientation of two-dof gyroscope, 1A92
BOYCE , MC: Tooling and binder design for sheet metal forming processes compensating springback error, 7A734
BOYCE, DE: Consistent penalty method for contact between a deforming viscoplastic workpiece and a rigid tool, 4A457
BOYCE, GM: Slope Stability and Stabilization Methods, 5R17
BOYCE, M: Mechanics of Plastics and Plastic Composites, MD-Vol 68-AMD-Vol 215 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA, 6N25
BOYCE, RR: Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049
- Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, 12A861
BOYD, ID: Monte Carlo computation of rarefied supersonic flow into a pitot probe, 6A935
BOYD, JG: Micromechanics and homogenization of inelastic composite materials with growing cracks, 8A441
BOYD, JP: Numerical computations of a nearly-singular nonlinear equation: Weakly nonlocal bound states of solitons for the fifth-order Korteweg-deVries equation, 8A195
- Traps and snares in eigenvalue calculations with application to pseudospectral computations of ocean tides in a basin bounded by meridians, 11T1417
BOYD, RD: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12, 3N43
- Two-dimensional wall temperature measurements and heat transfer enhancement for top-heated horizontal channels with flow boiling, 4T1180
BOYD, T: Improved accuracy six-load component pedal dynamometer for cycling, 12A1484
BOYER, DL: Flow generated by the rotation of a horizontal disk in a stratified fluid, 4A953
BOYER, F: Simulation of an open chain of flexible links in a mixed formalism, 1A90
- Symbolic modeling of a flexible manipulator via assembling of its generalized Newton Euler model, 4A404
- Generalization of Newton-Euler model for flexible manipulators, 5A363
BOYER, JC: Elasto-visco-plastic FE analysis of a cold upsetting test and stress-state validation by residual-stress measurements, 6A13
BOYER, KM: Stall inception in single-stage, transonic compressors with straight and swept leading edges, 4A1117
BOYER, S: Determination of yield stress fluid behavior from inclined plane test, 5A868
BOYLE, JT: Causality and the complex modulus model of damping, 4T143
- Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, 9A521
- Calculation of interlaminar stresses in laminated plates using Walsh transforms, 11T519
BOYLE, RJ: Three-dimensional Navier-Stokes heat transfer predictions for turbine blade rows, 4A1119
BOYLE, SR: Influence of strain rate, specimen length and confinement on measured geotextile properties, 12A661
BOYLE, VM: Oblique impact modeling of fuzes, 9A283
BOZIS, G: Inverse problem of dynamics: Basic facts, 1A278
BOZORGNIA, Y: Characteristics of free-field vertical ground motion during the Northridge Earthquake, 7A1372
BOZZA, A: Inversion and quasi-static problems in linear viscoelasticity, 1A477
BRAATEN, ME: Three-dimensional unstructured adaptive multigrid scheme for the Navier-Stokes equations, 7A32
BRABEC, CJ: Improved algorithm for calculating relaxation time spectra from material functions of polymers with monodisperse and bimodal molar mass distributions, 2A842
BRACCI, JM: Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, 3A783
- Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, 5A712
BRACKEN, AJ: Membrane diffusion and flux response, 12A1294
BRADAIGH, CO: Third International Conference on Flow processes in composite materials 94, held on July 7-9, 1994, Galway, Ireland, 2A559
BRADEAN, R: Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, 4A1166
- Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, 11A1153
BRADFORD, MA: Structural Stability and Design - Proc of Int Conf, Sydney, Oct-Nov 1995, 12N36
- Local buckling of cold formed steel sheeting in profiled composite beams at service loads, 4A569
- Local buckling of thin steel plates in composite construction: Experimental and theoretical study, 7A661
- Elastic local buckling of steel plates in composite steel-concrete members, 7A659
- Elastic distortional buckling of overhanging beams, 8A505
- Wet concrete loading of profiled trough girders, 9A927
- Design strength of slender concrete-filled rectangular steel tubes, 9A936
- Rational model for the distortional buckling of tapered members, 12A616
BRADLEY, C: Choice of a derivative BE formulation using Hermite interpolation, 7A53
- Reverse engineering physical models employing wrap-around B-spline surfaces and quadrics, 10A508
BRADLEY, CE: Time-harmonics acoustic Bloch wave propagation in periodic waveguides - Part III: Nonlinear effects, 3A304
BRADLEY, D: Burning velocities, Markstein lengths, and flame quenching for spherical methane-air flames: A computational study, 7A1306
BRADLEY, JS: Sound absorption of occupied auditorium seating, 7A357
BRADLEY, NL: Melt rheology of zinc alkali phosphate glasses, 8A868
BRADLEY, SW: Analysis of failure of axle housing of crane truck with fracture mechanics, 6A636
BRADLEY, WL: Effects of seawater absorption on fatigue crack development in carbon-epoxy EDT specimens, 4A674
- Analysis of failure of axle housing of crane truck with fracture mechanics, 6A636
- Moisture-induced degradation of glass-epoxy filament-wound composite tubes, 10A798
BRADSHAW, P: Numerical and experimental study of a wingtip vortex in the near field, 2A1018
- Compressible turbulent channel flows: DNS results and modeling, 6A991
- Collaborative testing of turbulence models, 12A1154
BRADU, E: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
BRADY, JF: Maximal effective diffusivity for time-periodic incompressible fluid flows, 7A1297
- Self-diffusion in sheared suspensions, 10A1124
- Stokesian dynamics simulation of Brownian suspensions, 11A930
BRADY, M: Parallel processing architecture for sensor-based control of intelligent mobile robots, 12A439
BRAESS, D: Error indicators for mixed FEs in 2D linear elasticity, 4A440
BRAGG, MB: Flow oscillation over an airfoil near stall, 6T1013
BRAGINSKY, SI: Equations governing convection in earth's core and the geodynamo, 3T1276
BRAIBANT, V: Constrained optimization of nacelle shapes in Euler flow using semianalytical sensitivity analysis, 6A964
BRAITHWAITE, G: Piezoelectric effect in coherently strained B-doped (001)Si/Ge/Si heterostructures, 6T512
BRAMBLE, JH: Interpolation between Sobolev spaces in Lipschitz domains with an application to multigrid theory, 3A29
BRAME, JL: Real-time vehicle trajectory supervision on the highway, 4A377
BRAMELD, GH: Free vibration analysis of bridges, 4A205
BRANCATI, R: Journal orbits and their stability for rigid unbalanced rotors, 5A143
- Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, 12A123
BRANCH, MC: Structure of H_2-NO_2-argon and H_2-O_2-argon laminar premixed flames, 2A1182
BRAND, PR: Reliability-based casing design, 1A948
BRAND, R: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $TGF\beta$-release in response to cyclic strain, 5A1373
BRAND, RA: Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, 5A1379
- Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
BRANDAUER, M: Mechanisms of coke formation in gas turbine combustion chambers, 10A1396
BRANDEIS, J: Use of jet interaction for ignition in ram and external propulsion accelerators, 4A1274
- Ram accelerator utilizing active projectile, 8A240
- Experimental investigation of side-jet steering for supersonic and hypersonic missiles, 12A864
BRANDENBURG, A: Magnetic structures in a dynamo simulation, 7A1141
BRANDIMARTE, P: Optimization issues in the calibration of a multicomponent robotic dynamometer, 7A458
BRANDON, JA: Counter-intuitive quasi-periodic motion in the autonomous vibration of cracked Timoshenko beams, 1A127
- Complex oscillatory behavior in a cracked beam under sinusoidal excitation, 2T671
- Modeling of the opening and closure of a crack, 5A590
- Geometric parameters for FE model updating of joints and constraints, 11A11
BRANDS, PJ: Effective algorithm for measuring diastolic artery diameters, 1A1460
- Non-invasive estimation of wall shear rate in humans by means of ultrasound, 1A1463
BRANDT, SA: Design analysis methodology for solar-powered aircraft, 1A919
- Vortex burst model for the vortex lattice method, 5T1022
BRANK, B: Implementation of a nonlinear four node shell FE for thin multilayered elastic shells, 1A630
BRANNY, M: 3nidimensional model of spontaneous fire in goaf or coal fissures (Polish), 3A1351
- Numerical prediction of temperature and moisture of air in longwalls (Polish), 9A1408
BRANSKI, A: Acoustic modeling of surface sources - Part III: Piston model, error of the model, axisymmetrical problem, 9A378
- Acoustical modeling of the surface sources - IV: Interpolation model, axisymmetric problem, 9A379
- Acoustic modeling of surface sources - Part I: Piston model, discretizing error, axisymmetrical problem, 9A103
- Acoustic modeling of surface sources - Part II: Piston model, asymmetrical function of vibration velocity, discretizing error, axisymmetrical problem, 9A377
BRAR, NS: Dynamic failure mechanisms of ceramic bars: Experiments and numerical simulations, 2A446
- Prediction of force-time histories in thick steel plates due to penetration by tungsten rods at velocities of 1.5-2.5 km s^{-1}, 8A190
- Penetration of grout and concrete targets with ogive-nose steel projectiles, 10A281
BRÁS, B: Integrating robustness into multiobjective space vehicle design process, 3T315
BRASIL JR, ACP: Integro-differential model for the heat transfer in forest fires, 3A1234
BRASIL, RM: Vibration confinement in trusses, 8A134
BRASIL, RMLRF: Effect of static loading on the nonlinear vibrations of a three-time redundant portal frame: Analytical and numerical studies, 4A188
BRASSEUR, JG: Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part I: Velocity field, 8A977
BRASZCZYNSKI, J: Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, 9A563
BRATT, JP: Lateral vibration of fluid-conveying pipes, 3A220
BRATTKUS, K: Directional solidification into static stability, 6A985
BRATZ, A: Surface oscillations of electromagnetically levitated viscous metal droplets, 2A1003
BRAUCKMANN, GJ: Experimental and computational analysis of shuttle orbiter hypersonic trim anomaly, 5A745
BRAUD , N: Buoyancy-affected laminar film condensation, 3A1086
BRAUD, N: Flow of a power-law fluid film on an unsteady stretching surface, 8A901
BRAUN, JE: Effects of turbulence and unsteadiness on vortex shedding from sharp-edged bluff bodies, 9A1161
BRAUN, MJ: Model developments for the brush seal numerical simulation, 6A850
- Pressure and flow characteristics in a shallow hydrostatic pocket with rounded pocket-land joints, 8T818

- Steady-state and transient dynamic simulation of a continuous foil bearing, 8T819
BRAUN, RD: Mars Pathfinder six-dof entry analysis, 5A239
- Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, 10A330
BRAUNER, C-M: Stability in a model of turbulent combustion, 2A1185
BRAUNS, E: Calculation of Weibull life expectancy parameters from fracture data using the maximum likelihood criterion and a Nelder-Mead simplex minimization algorithm, 10A755
BRAUNSPERGER, M: Designing for quality: An integrated approach for simultaneous quality engineering, 7A466
BRAWLEY, SC: Airfoil design utilizing parallel processors, 11T1015
BRAY, DE: Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service, Revised Edition, 5N11
- Application of the L_{CR} ultrasonic technique for evaluation of post-weld heat treatment in steel plates, 2A697
BRAY, DF: Residual stress measurement in steel plates and welds using critically refracted longitudinal (L_{CR}) waves, 10T871
BRAY, J: Modeling of particulate media using discontinuous deformation analysis, 3A1249
BRAY, KNC: PDF modeling of autoignition in non-premixed turbulent flows, 2A1178
- Two-dimensional simulation of turbulent autoignition with transient laminar flamelet source term closure, 2A1180
- Premixed combustion in laminar Couette flow, 8A1251
BRAY, RM: Flying-qualities analysis of an unmanned air vehicle, 9A1227
BRAYKOVSKAYA, NS: Applicability of the ratios of the theories of elastoplastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, 9T522
BRAZKALA, W: Probabilistic analysis of foundation settlements, 11A565
BRCIC, S: Lateral wind effects on suspended cable, 12A581
BREAR, K: Effects of ageing and changes in mineral content in degrading the toughness of human femora, 6A1311
BREBBIA, CA: Advances in Fluid Mechanics - Proc of 1st Int Conf, New Orleans, June 1996. Advances in Fluid Mechanics series, Vol 9, 11N42
- Structural Optimization - Proc of Computer Aided Optimum Design of Structures IV, 6N28
- Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995, 1N27
- Kobe Earthquake: Geodynamical Aspects, 10N40
- Computational Modelling of Free and Moving Boundary Problems III, 1N28
- Boundary Element Technology XI - Int Conf on Boundary Element Technology, BETECH 96, 10N2
- Structures Under Shock and Impact IV - Proc of 4th Int Conf, Udine, Italy, July 1996, 11N17
- Boundary Element Reference Database, 7N2
- Numerical Methods in Engineering Simulation - Proc of 3rd Int Congress on Numer Methods in Eng and Appl Sci (Cimenics '96), Merida, Venezuela, March 1996, 10N30
- Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996, 11N45
- Boundary Element Technology X - Proc of 10th Int Conf on Boundary Technology (BETECH 95), Liege, Belgium, Sept 13-15, 1995, 1N2
- Boundary Elements XVII, 2N1
BREBENEL, M: Explicit formula for calculation of velocity distribution along thin profiles (curved plates) in cascade, 11A905
BREEN, J: Possibilities for future developments in primary safety requirements, 7A1417
BREEN, JE: Fretting fatigue in post-tensioned concrete beams, 9A918
BREI, D: Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, 6A508
BREITBACH, EJ: Sixth International Conference on Adaptive Structures Technology, 11N16
BREITENECKER, F: Modeling, simulation, and optimization of a printer sled driving system, 3A325
BREITHAUPT, PP: Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, 1A1335
BREITNER, MH: Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, 8T316
BREITUNG, W: Deflagration to detonation transition in large confined volume of lean hydrogen-air mixtures, 7A309
BREKELMANS, WAM: Size effect predictions by fracture models for a refractory ceramic, 10A833
BREMER, H: Surface polishing with flexible link manipulators, 8A364
BREMHORST, K: Microprojectile velocities in a gas driven launcher, 3A1404
- Examination of the flow around a hot-wire probe using particle image velocimetry, 4A1127
BREMONT, M: Water-resistant oxide layers at the interface of zinc-epoxy bonded joints, 8A856
BRENAN, KE: Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations - Classics in Applied Mathematics, Vol 14, 6R2
BRENDEL, M: Flow visualization using natural condensation of water vapor, 4T1129
BRENDEN, BB: Planar ultrasonic imaging of a two-phase mixture, 1T1042
BRENDLE, M: General approach to discontinuous transfer films: The respective role of mechanical and physico-chemical interactions, 6A813
BRENNAN, MJ: Electrorheological fluid vibration damper, 1A120
- Strategies for the active control of flexural vibration on a beam, 3A378
BRENNEN, CE: Vertical oscillation of a bed of granular material, 9A1348
BRENNER, CE: Contribution to the SFE-based reliability assessment of nonlinear structures under dynamic loading, 6A50
BRENNER, H: Multiple-timescale analysis of Taylor dispersion in converging and diverging flows, 9A1153
BRENNER, SC: Two-level additive Schwarz preconditioner for nonconforming plate elements, 7A16
- Two-level additive Schwarz preconditioners for nonconforming FEMs, 12A33
BREPTA, R: Rayleigh wave dispersion due to spatial (FEM) discretization of a thin elastic solid having non-curved boundary, 5A179
- Wave propagation in a thick cylindrical bar due to longitudinal impact, 7A222
BRESLER, L: Control of transport in a chaotic lattice, 11A85
BRESLIN, JP: Hydrodynamics of Ship Propellers - Cambridge Ocean Technology Series 3, 3R26
BRESSERS, J: Misfit dislocations and anisotropic coarsening in superalloys, 3A1181
BRESSLOFF, NW: Assessment of a differential total absorptivity solution to the radiative transfer equation as applied in the discrete transfer radiation model, 10A1300
BRESSOLETTE, P: Dynamics of a stochastic oscillator with impacts, 10A74
BRETT, PN: Computer simulation of the deformation of dough-like materials in a parallel plate gripper, 10A476
- Sensing technique for the measurement of tactile forces in the gripping of dough-like materials, 11A367
BRETT, RL: Influence of loading levels, temperature, and environment on fiber failure during the fatigue of an SiC fiber-reinforced Ti-MMC, 8A585
BREUEL, BD: Concentration measurements in a self-excited jet, 12A1130
BREVART, BJ: Energy exchange between the coupled media of impulsively-excited, fluid-filled, elastic cylinders, 8A217
BREWE, D: Performance of powder-lubricated journal bearings with MoS_2 powder: Experimental study of thermal phenomena, 5T793
BREWE, DE: Temperature distribution and thermal distortion due to frictional heating in a dry shaft-bush tribosystem using the FEM, 2A817
- Effect of worm gear geometry on its contact properties, 6T843
BREWER JR, RM: Effect of interface plate compliance on dynamometers incorporating octagonal strain rings, 5A687
BREWER, AT: Dynamic buckling of discrete structural systems under combined step and static loads, 7A676
BREWIS, DM: Adhesion and surface analysis, 8A849
BREWSTER, J: Investigation of parametric drive of a longitudinal gas-filled resonance tube, 7A324
BREWSTER, ME: Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, 5A887
BREWSTER, MQ: Optical properties of thick, turbid media from picosecond time-resolved light scattering measurements, 1A1267
- Radiation-augmented combustion of homogeneous solids, 5A1261
- Application of a genetic algorithm to the optical characterization of propellant smoke, 10A1299
- Effects of Kevlar fibers on ammonium perchlorate propellant combustion, 11A1292
- Theory of unsteady combustion of solids: Investigation of quasisteady assumption, 11A1287
BREWSTER, Q: Quasi-steady combustion modeling of homogeneous solid propellants, 1A1336
BREYSSE, D: Cracking and permeability of concrete under tension, 10A841
BREZINA, T: Genetic algorithm in solution of inverse heat conduction problems, 4A1211
BRIANT, CL: Analysis of splitting failures during the drawing of tungsten wire, 2A537
BRICENO, M: Flow characteristics of concentrated emulsions of very viscous oil in water, 11A857
BRICKLE , BV: Dynamic stress analysis of an open-shaped railway bogie frame, 9A219
BRICKSTAD, B: Procedure for analysis of leak before break in pipes subjected to fatigue or IGSCC accounting for complex crack shapes, 3A657
BRICMONT, J: Stable nonGaussian diffusive profiles, 4T1241
BRIDGE, B: New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, 2A318
BRIDGE, RQ: Flange curling in profiled steel decks, 7A952
- Design methods for profiled steel decks with intermediate stiffeners, 12A848
BRIDGES, J: Effects of nozzle body on jet noise, 6A235
BRIDGES, TJ: Spatial bifurcations of interfacial waves when the phase and group velocities are nearly equal, 1A105
BRIDGES, TR: Dual reciprocity formulation for elasticity problems with body forces using augmented thin plate splines, 9A491
BRIE, D: Damage gear detection by magnitude and phase demodulation (French), 11A657
BRIENT, J: Linearized impulsive rendezvous problem, 2T204
BRIERS, R: Inhomogeneous plane-wave scattering and mode simulation on periodic rough surfaces, 10A252
BRIESCH, MS: Combined cycle designed to achieve greater than 60 percent efficiency, 5A1270
BRIGGS, A: Condensation performance of some commercial integral fin tubes with steam and CFC113, 4A1183
BRIGGS, DA: Entrainment in a shear-free turbulent mixing layer, 9A1189
BRIGGS, GAD: Fatigue damage in aluminium single crystals - Part I: On the surface containing the slip Burgers vector, 2A577
BRIGGS, MJ: Runup of solitary waves on a circular island, 4A261
BRIGHENTI, R: Part-through cracks in round bars under cyclic combined axial and bending loading, 8A578
BRIGHT, AP: Passive vibration control via unusual geometries: Experiments on model aerospace structures, 8A331
BRIGMAN, B: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
BRIK, DS: Pressure effects on the heat transfer of a liquid boiling on a surface with a capillary-porous coating, 1A1250
BRILL, D: Identification of cylindrical shells with sets of reinforcing ribs by their acoustic Bragg diffraction (grating) patterns, 1A317
BRILL, TB: Flash pyrolysis of hydroxyl-terminated polybutadiene - I: Analysis and implications of the gaseous products, 12A1314
- Flash pyrolysis of hydroxyl-terminated polybutadiene - II: Implications of the kinetics to combustion of organic polymers, 12A1307
BRILLARD, A: Geometric effects on mass transfer during thermogravimetric analysis: Application to reactivity of diesel soot, 1A1325
- Deductive theory of friction - II: Mathematical study, 12A879
BRINDLEY, J: Extinction of premixed flames by pressure drops, 1A1338
BRINDLEY, WJ: Compressive fatigue of a plasma sprayed ZrO_2-8 wt% Y_2O_3 and ZrO_2-10 wt% NiCrAlCoY TTBC, 5A591
BRINK, U: Coupling of adaptively refined dual mixed FEs and BEs in linear elasticity, 5A422
- Convergence rates for the coupling of FEM and collocation BEM, 6A38
BRINKER, JS: Linear quadratic flight control for ejection seats, 6A327
BRINKMAN, MR: Effects of processing temperature and layup on matrix cracking, 5A582
BRINSON, LC: Deformation of shape memory alloys due to thermo-induced transformation, 9A895
- Simplifications and comparisons of shape memory alloy constitutive models, 9A7
BRISCOE, AR: Axisymmetric vibrational power measurement in empty and fluid-filled pipes, 11A210
BRISTER, S: Dynamic optical birefringence: New possibilities in polymer characterization, 4A894
BRITAN, A: Acceleration of a sphere behind planar shock waves, 6A199
BRITT, RT: Aeroelastic effects on the B-2 maneuver response, 1A1110
BRITTINGHAM, RA: Heat transfer transients in stagnation flows due to changes in flow velocity, 6T1094
BRITTO, AM: Cubic strain quadrilateral FE, 10A27
BRITVEC, SJ: Stability and Optimization of Flexible Space Structures, 4R12
BRIZENDINE, AL: Underseepage analysis of levees on two-layer and three-layer foundation, 8A540
BRIZUELA, EA: Errors due to correlations in evaluating mean density from Favre-averaged enthalpy and composition in turbulent reactive flow, 5A1217
- Eddy break-up coefficient, 7A1309
BROADBRIDGE, P: Nonclassical symmetry analysis of nonlinear reaction-diffusion equations in two spatial dimensions, 5T1201
- Series solutions for steady unsaturated flow in irregular porous domains, 9A1358
- Closed-form solutions for unsaturated flow under variable flux boundary conditions, 12T1413
BROBERG, KB: Intersonic mode II crack expansion, 9A850
BROCCHINI, M: Internal flow properties of the swash zone and averaging, 12A239
BROCHARD, D: Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N13
BROCK, LM: Dynamic indentation of an elastic half-plane by a rigid wedge: Frictional and tangential-displacement effects, 1A461
- Rapid quasi-brittle tearing of a thermoelastic strip, 3A1179
- Slip-diffusion zone effects at rapidly-loaded cracks in thermoelastic solids, 6A683
- Thermal and slip mechanism effects in rapid indentation by a flat punch, 8A188
BROCKEN, H: Determination of moisture diffusivity in porous media using moisture concentration profiles, 7A1300
BROCKMANN, W: Water-resistant oxide layers at the interface of zinc-epoxy bonded joints, 8A856
BROCKS, W: Verification of the transferability of micromechanical parameters by cell model calculations with visco-plastic materials, 5A455
BRODERICK, BM: Seismic response of composite frames - I: Response criteria and input motion, 12A1403
- Seismic response of composite frames - II: Calculation of behavior factors, 12A1404
BRODERSEN, S: Flows generated by the impingement of a jet on a rotating surface - Part I: Basic flow patterns, 9A1165
- Flows generated by the impingement of a jet on a rotating surface - Part II: Detailed flow structure and analysis, 9A1166
BRODETSKY, MD: Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, 5A985
- Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
BRODKA, J: Design analysis of steel members strengthened by increasing of their sections, 1A902
- Estimation of flexibility of joints in steel structures (Polish), 10A1035
BRODT, M: Composite materials which exhibit high stiffness and high viscoelastic damping, 2A440
BROECKX, C: Proceedings of the Sixth International Congress on Computational and Applied Mathematics, July 1994, Leuven, Belgium, 11A70
BROEDE, J: Axisymmetric substitute structures for circular disks with noncentral holes, 12A591
BROERS, CAM: Application of photogrammetry in the study of the effects of sailboard fin flexibility, 7A580
BROGGIATO, GB: Finite strain analysis by image processing: Smoothing techniques, 5A680
BROJEWSKI, R: Stability problem of the non-hydrostatic 2D model of air flow in the lower troposphere: Orographic effects and the telescopic method, 9A1404
BROMAGHIM, DR: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
BROMHEAD, EN: Interpretation of constant head in situ permeability tests in soil zones of finite extent, 9A1363
BROMMUNDT , E: Self-excited oscillator with increasing coefficient of friction (German), 5A73
BRONDUM-NIELSEN, T: Orthotropic shells, 11A517
BRONIEWSKI, T: Application of dewaterers and sorbents in impregnation of building materials, 9T940
BRONNIKOV, SV: Description of the mechanical relaxation of highly oriented polymers based on their relaxation spectra (Russian), 7A520
BRONOWICKI, AJ: Mechanical validation of smart structures, 11T737
BRONZINO, JD: Biomedical Engineering Handbook, 5N32
BROOKINS , AH: Wave energy transformation on natural profiles, 12A249
BROOKS, BJ: Convective instability in rotating liquid ^{3}He-^{4}He mixtures, 11A981
BROOKS, M: Flow past a flat plate with a vortex-sink combination, 12A257
BROOKS, S: Free vibration of piezoelectric laminates in cylindrical bending, 1A163
BROOMFIELD, RW: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223
BROOMHEAD, DS: Cancelling deterministic noise by constructing nonlinear inverses to linear filters, 6A278
- Robust estimation of tangent maps and Liapunov spectra, 6A106
BROSOWSKI, B: Multicriteria optimal design of stiffened plates - Part 1: Choice of the formula for the buckling load, 7A634
BROST, RC: Probabilistic analysis of manipulation tasks: A conceptual framework, 7A461
BROSTOW, W: Stress relaxation: Experiment, theory and computer simulation, 7A521

BROTSKAYA, VY: Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, 7A667
BROUARD, B: Measurement and prediction of the reflection coefficient of porous layers at oblique incidence and for inhomogeneous waves, 6A244
BROUCKE, R: Transfer orbits in the earth-moon system using a regularized model, 12T392
BROUCKE, RA: Effects of general atmospheric perturbations on small debris particle orbits, 5A236
- Orbital planar maneuvers using two and three-four (through infinity) impulses, 8T319
BROUGHTON, P: Analysis of Cable and Catenary Structures, 5R15
BROUSSEAU, P: Conversion of oscillatory shear data from highly-filled polymers by direct numerical integration, 9A1044
BROUTMAN, D: Numerical simulations of uniformly stratified fluid flow over topography, 7A1062
BROUWER, HR: Notched strength of thermoplastic woven fabric composites, 1A818
BROUWER, R: Open-channel flow model approximation for controller design, 1A971
BROUWERS, HJH: Mean condensate heat resistance of dropwise condensation with flowing, inert gases, 3A1088
- Heat transfer, condensation, and fog formation in crossflow plastic heat exchangers, 4A1217
- Effect of fog formation on turbulent vapor condensation with noncondensable gases, 8T1142
- Experimental study of constant-pressure steam injection and transient condensing flow in an air-saturated porous medium, 11A1185
BROUWERS, JJH: Secondary flows and particle centrifugation in slightly tilted rotating pipes, 8A928
BROVMAN, MY: Flow lines in creep deformation, 5A428
- Solution of dynamic problems of the plasticity theory under plane deformation (Russian), 7A527
- Analysis of a nonuniform loading across the width of the teeth, 12T955
BROWAND, FK: Turbulence, similarity scaling, and vortex geometry in the wake of a towed sphere in a stably stratified fluid, 11A974
BROWN, AM: Probabilistic component mode synthesis of nondeterministic substructures, 9A898
BROWN, AT: Seismic performance of architectural glass in a storefront wall system, 3A1326
BROWN, BM: Effects of rectangular foundation geometry on local pier scour, 6T883
BROWN, CJ: Elastic buckling of plates with eccentrically positioned rectangular perforations, 12A620
BROWN, D: Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, 7A781
BROWN, DM: Analysis of unsteady forced convection in turbulent duct flow, 1A1172
BROWN, DT: Hydrodynamic damping contributions for an advanced floating production system design, 9A1210
- Measurements from the Emerald instrumented flexible riser, 12A856
BROWN, EF: Comparison of optical and mechanical measurements of second normal stress difference relaxation following step strain, 1A959
- First and second normal stress difference relaxation in reversing double-step strain flows, 6A866
BROWN, ET: Influence of axial stress and dilatancy on rock tunnel stability, 7A717
BROWN, GV: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164
BROWN, HL: Natural convection from a cylinder with multiple, low-conductivity, longitudinal baffles, 10A1253
BROWN, KH: Anisotropic plasticity with anisotropic hardening and rate dependence, 10A541
BROWN, KK: Evaluation of correlated bias approximations in experimental uncertainty analysis, 10A1209
BROWN, M: Modeling and control of nonlinear, operating point dependent systems via associative memory networks, 9T416
BROWN, MW: Model for sliding mode crack closure - Part I: Theory for pure mode II loading, 2A569
- Model for sliding mode crack closure - Part II: Mixed mode I and II loading and application, 2A570
- Fracture criterion for cracks under mixed-mode loading, 2A609
- Short crack coalescence and growth in 316 stainless steel subjected to cyclic and time dependent deformation, 6A608
- Crack growth morphology and microstructural changes in 316 stainless steel under creep-fatigue cycling, 6A603
- Plastic deformation and fatigue under multiaxial loading, 11A456
BROWN, RA: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388
- Use of coupled birefringence and LDV studies of flow through a planar contraction to test constitutive equations for concentrated polymer solutions, 4A911
BROWN, RG: Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, 5A611
BROWN, RJ: Experimental study of a reactive plume in grid turbulence, 10A1179
BROWN, S: Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, 11A522
BROWN, SN: Vortex-wave interactions - Part 1: Nonsymmetrical input and cross-flow in boundary layers, 7A1117
BROWN, T: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
BROWN, TD: Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
- Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, 8A1450
BROWN, TG: Three-dimensional nonlinear FE model for the Molikpaq, Gulf's mobile caisson, 12A857
BROWN, WC: History of wireless power transmission, 8A1385
BROWNING, PF: Analysis of splitting failures during the drawing of tungsten wire, 2A537
BROWNJOHN, DP: Nonlinear compressible magnetoconvection - Part 3: Traveling waves in a horizontal field, 4A1094
BROZ, JJ: Material and compositional properties of selectively demineralized cortical bone, 2A1309
BROZE, G: Transitions to chaos in a forced jet: Intermittency, tangent bifurcations, and hysteresis, 9A1159
BROZEK, M: Distribution of selected physical properties in the crushed material, 3A1248
- Densimetric and magnetic characteristics of crushed materials (Polish), 3A1252
- Washability characteristics of raw materials (Polish), 3A1250
BROZOSKI, F: Missile flight control using active flexspar actuators, 11A313
BRUASET, AM: Survey of Preconditioned Iterative Methods - Pitman Research Notes in Mathematics, No 328, 5N6
BRUCH JR, JC: Adaptive quadtree subdividing contour plotting algorithms, 1A30
- Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 1: Theory, 3T324
- Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, 4T352
- Maximum principle for the optimal control of a hyperbolic equation in two space dimensions, 6A285
BRUCKER, C: Digital-particle-image-velocimetry in a scanning light-sheet: 3D starting flow around a short cylinder, 2A1068
BRUCKNER, AP: Feedback-controlled gas mixing system for the ram accelerator, 4A385
BRÜCKNER, EJ: Contamination and space environmental effects on solar cells and thermal control surfaces, 5A246
BRUCKNER-FOIT, A: Calculation of the second fracture parameter for finite cracked bodies using a three-term elastic-plastic asymptotic expansion, 2A625
- Assessment of notches in ceramic components, 5A635
- Fracture mechanics assessment of planar branched cracks in an equibiaxial stress field, 5A659
BRUGGEMANN, D: Matrix dissipation for central difference schemes with combustion, 3A1239
- Numerical simulation of mixing for turbulent slot injection, 6A970
BRUMBERG, D: Derivative of Kaula's inclination function, 3A236
BRUMBERG, VA: Derivative of Kaula's inclination function, 3A236
BRUMOVSKY, M: Assessment by comparison and experimental verification of VVER reactor pressure vessel integrity, 1A1415
BRUN, M: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
BRUNE, JN: Precariously balanced rocks and ground-motion maps for southern California, 11A1393
BRUNE, WH: Environment control of individual aqueous particles in a cubic electrodynamic levitation system, 11A1317
BRUNEAU, M: Seismic performance of single-span simply supported and continuous slab-on-girder steel highway bridges, 2A1246
- Fatigue-based methodology for managing impact on heavy-permit trucks on steel highway bridges, 3A155
- Aspects of energy methods for the inelastic seismic response of ductile SDOF structures, 5A1316
- Normalized energy-based methods to predict the seismic ductile response of SDOF structures, 5A1323
BRUNEAU, SD: Measuring unsteady velocity profiles and integral parameters using digital image processing of hydrogen bubble timelines, 5A876
BRUNEAUX, G: Head-on quenching of a premixed flame by a cold wall, 5A1230
BRUNET, JP: Liquid nitrogen boiling around a temperature controlled heated wire, 8T1126
BRUNET, S: Construction of a simply supported rectangular plate for noise and vibration studies, 7A367
BRUNET, Y: Liquid sheet and film atomization: A comparative experimental study, 4A1015
BRUNGER, AP: Empirical model for natural convection heat exchangers in SDHW systems, 1A1421
BRUNIG, M: Nonlinear analysis and elastic-plastic behavior of anisotropic structures, 1A21
BRUNN, PO: Effects of nonuniform electric field on slit flow of an electrorheological fluid, 4A897
- Effects of electrode morphology on the slit flow of an electrorheological fluid, 10A1051
BRUNNSCHWEILER, A: Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, 10A461
- Coupled FEM simulation for the characterization of the fluid flow within a micromachined cantilever valve, 10T454
BRUNO, C: Material-dependent catalytic recombination modeling for hypersonic flows, 6A1189
BRUNO, JG: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
BRUNO, OP: Overall elastic energy of polycrystalline martensitic solids, 12A481
BRUNONE, B: Effects of two-dimensionality on pipe transients modeling, 6A877
BRUNOTTE, M: Two-stage concentrator permitting concentration factors up to 300X with one-axis tracking, 9A1418
BRUNSDEN, D: Physico-chemical effects on the behavior of a coastal mudslide, 12A655
BRUSEK, M: Drag reduction with the slip wall, 10T1143
BRUTSAERT, W: Z-less stratification under stable conditions, 2T1264
BRUYNINCKX, H: Kinematic models for model-based compliant motion in the presence of uncertainty, 2A303
- Symbolic differentiation of the velocity mapping for a serial kinematic chain, 6A73
BRYAN, K: Inverse problem in thermal imaging, 11A1091
BRYAN, WJ: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 10, 3N41
BRYANSTON-CROSS, PJ: Spatial phase stepping method of fringe-pattern analysis, 3A732
BRYANT, AH: Statistical implications of methods of finding characteristic strengths, 7A919
BRYANT, MD: Bond graph models for linear motion magnetostrictive actuators, 9A401
BRYANT, PJ: Water waves in a deep square basin, 4A269
BRYANT, YG: Microencapsulated phase-change material suspensions for heat transfer in spacecraft thermal systems, 10A1309
BRYCE, JD: Unsteady 3D flow in a single-stage transonic fan - Part II: Unsteady stator exit flow field, 5A1064
- Unsteady 3D flow in a single-stage transonic fan - Part I: Unsteady rotor exit flow field, 5A1063
BRYDEN, MD: Multiple-timescale analysis of Taylor dispersion in converging and diverging flows, 9A1153
BRYERS, RW: Fireside slagging, fouling, and high-temperature corrosion of heat-transfer surface due to impurities in steam-raising fuels, 11A1290
BRYFOGLE, MD: Robotically assisted munition loading system, 4A412
BRYSON, AE: Inverse and optimal control for precision aerobatic maneuvers, 8A1013
BRZAKALA, W: Stochastic FE analysis of soil layers with random interface, 10A662
BRZOSKA, K: Contribution to the relationship between the methane sorption capacity of the coal and gas pressure, 3A1353
BU, S: Boundary element technique for geotechnical problems of incompressible soils, 4A611
BU, SUHOL: Three dimensional BE analysis of axisymmetric halfspace problems, 11A56
BUBE, KP: A priori estimates and convergence for the discrete forward and inverse problems of reflection seismology, 7A1369
BUBLIK, GF: Structural optimization of vibroisolated system for ground pendulum gyrocompass with consideration of dynamics of its sensitive element, 9A147
BUCARO, JA: Fiber-embedded mandrel-stiffened planar acoustic sensor, 1A359
- Structural acoustics and active control of interior noise in a ribbed cylindrical shell, 12A298
BUCH JR, KA: Experimental study of the fine-scale structure of conserved scalar mixing in turbulent shear flows - Part 1: Sc >> 1, 12A1153
BUCHACZ, A: Modeling, synthesis and analysis of bar systems characterized by a cascade structure represented by graphs, 2A80
BUCHANAN, TS: Evidence that maximum muscle stress is not a constant: Differences in specific tension in elbow flexors and extensors, 1A1446
BUCHENSKA, J: Polyester fibers (PET) with antibacterial properties, 6A1356
BUCHER, C: Contribution to the SFE-based reliability assessment of nonlinear structures under dynamic loading, 6A50
BUCHHAVE, P: Optical processing of PIV images, 5T1114
BUCHHEIM, GM: Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, 5A611
BUCHHOLTZ, BW: Lubricious-surface-silicon-nitride rings for high-temperature tribological applications, 6T814
BUCHHOLZ, F-G: Finite element analysis of delamination cracks in bending of cross-ply laminates, 6A666
- Optimization of the adhesive joint losipescu specimen for pure shear test, 12A998
BUCHTA, E: Long term effect of noise protection barriers on the annoyance response of residents, 1A338
BUCHWALD, VT: Linearized evaporation from a soil of finite depth near a wetted region, 7A1237
BUCK, GM: Simultaneous luminescence pressure and temperature measurement system for hypersonic wind tunnels, 5A1115
BUCK, SE: Ductile-to-brittle transition and ductile failure envelopes of orthotropic ice under biaxial compression, 2T1279
BUCKINGHAM, RO: Automating the manufacture of composite broadgoods, 7A759
- Automated manufacture of prepreg broadgoods components: A review of literature, 7A575
BUCKIUS, RO: Surface length scale contributions to the directional and hemispherical emissivity and reflectivity, 3A1128
- Multidimensional, nonhomogeneous, dense spray contributions to diffraction-based particle size distribution measurements, 5A1113
- Wideband correlated-κ method applied to absorbing, emitting, and scattering media, 10A1301
BUCKLE, U: Numerical investigation of melting processes affected by natural convection, 7A1226
BUCKLEY, D: Effect of through-thickness cracks on the ballistic performance of ceramic armour systems, 7A259
BUCKMASTER, J: Role of slip in the generation of acoustic instabilities in gas turbines, 6A1199
- Elementary discussion of forward smoldering, 8A1249
- Theory of shallow smoulder waves, 10A1371
BUCUR, V: Acoustics of Wood, 5R8
BUCZKOWSKI , W: Solar heat influence on distribution of stresses in RC rectangular tanks, 1A934
BUCZYNSKI, A: Calculation of elastoplastic strains and stresses in notches under multiaxial loading, 1A788
BUDAEV, BV: Rayleigh wave scattering by a wedge, 4A245
BUDAK, A: Acoustical performance of the Grand Hall of the Ataturk Cultural Center, 1A335
BUDAK, E: Prediction of milling force coefficients from orthogonal cutting data, 11A598
BUDIANSKY, B: Toughening of ceramics by short aligned fibers, 1A576
BUDIONO, B: Rotating crack FE model for reinforced concrete structures, 3A706
BUDWIG, RS: Instructional Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf, 2N42
BUDZYNSKI, W: Analysis of RC torsioned members on the base of softened truss model (Polish), 6A741
BUEHLER, M: Clementine dosimetry, 5A741
BUENO, M-A: Tribological investigation of textile fabrics, 12A899
BUFEEV, VA: Contact problem taking into account the forces of supercoulomb friction, 5A406
- Possibility of external-friction study using variational methods of non-equilibrium thermodynamics, 5A764
BUFFAT, M: Introduction of turbulent model in a mixed finite volume and FEM, 2A15
- Numerical simulations of a 3D nozzle, from inviscid to turbulent flows, 6A932
BUFFONI, B: Periodic and homoclinic orbits for Lorentz-Lagrangian systems via variational methods, 4T296
BUFFONI, G: Advection-diffusion processes and residence times in semienclosed marine basins, 12A1410
BUFLER, H: Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 1: Theory, 5A388
- Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, 9A604
BUGAJSKI, S: Fuzzy dynamical systems, fuzzy random fields, 10A1
BUGGELE, AE: Automation of some operations of wind tunnel using artificial neural networks, 7T1198
BUGGY, M: Recycling of composite materials, 7A588
BUI-PHAM, MN: Rich flammability limits in CH_3OH-CO-diluent mixtures, 7A1336
BUI-QUOC, T: Effect of re-coldworking on fatigue life enhancement of a fastener hole, 1A763
BUICK, J: Simulation of wave motion using a lattice gas model, 7A276

BUUS, M: Bed thickness and particle size distribution in three-body abrasion, 3A833
BUIKIS, A: Modeling of the convective diffusive process with nonlinear sorption in multi-layered aquifer, 1A1358
- Modeling of non-isothermal gas flow through a heterogeneous medium, 8A1166
BUISINE, D: Evaluation of residual stresses in stainless-steel claddings, 2A378
BUKHAREV, YN: Experimental determination of tangential stresses on the surface of an indenter dynamically forced into soil, 5T553
BUKIET, BG: Modeling flows with curved detonation waves, 8A237
BULANOV, NV: Heat transfer to emulsion with a low-boiling disperse phase, 1A1282
- Collapse of a boiling water jet, 1A1230
BULANOV, VV: Selection of a criterial parameter for the estimation of damageability of a mechanical system at natural oscillations, 11A628
BULAVIN, PV: Boundary element approach to the solution of 3D problems of the theory of elasticity by the geometrical immersion method, 2A381
BULAVIN, VA: Improvement of wear resistance of crankshaft journals, 6T848
BULCHINSKII, YS: Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, 5A228
BULGAKOV, VE: High-performance multilevel iterative aggregation solver for large FE structural analysis problems, 3A28
BULL, C: Application of the shadow optical method to fatigue and crack closure studies, 2A683
BULL, JM: Parallel globally adaptive algorithms for multidimensional integration, 6A64
BULL, JW: Adaptive analysis of stiffened structures using stiffened plate bending elements, 1A617
- Theoretical formulations for adaptive FE computations, 3A34
BULL, MK: Wall-pressure fluctuations beneath turbulent boundary layers: Some reflections on forty years of research, 8A941
BULLEIT, WM: Approximate reliability analysis of wood structural systems, 2A740
BULLOCH, JH: Near threshold fatigue behavior of flake graphite cast irons microstructures, 4A673
- Service embrittlement trends in large CrMoV steel steam turbine bolts, 4A680
- Deaerator feedwater storage vessel weldment cracking: Some fractographic and crack extension details, 10A1447
BULLOCK, S: Development of an aviation fuel thermal stability test unit, 5A1243
BULLOUGH, WA: ER shear characteristics: Volume fraction, shear rate, time response, 12A431
BULSARI, A: Special Issue on Applications of Neural Networks in Process Engineering and System Dynamics, 12A464
BULYCHEV, OG: Construction of a characteristic matrix form of the dynamic equations for anisotropic elastic-viscoplastic media, 3A181
- Nonstcady processes in cylindrical shells under impact loads, 6A190
BULYGIN, AV: Conception and choice of project parameters of transport wing-in-ground effect craft, 8A1007
BULZAN, DL: Structure of a swirl-stabilized combusting spray, 4A1258
BUNDY, ML: Projectile fin damage from propellant combustion, 3A1136
BUNEV, VA: Decomposition flame of hydrazine in inert porous media, 3A1231
BUNGEY, JH: Testing of Concrete in Structures, Third Edition, 10N26
- Radar assessment of structural concrete using neural networks, 4A784
BUNI, SY: Effect of structural features on erosion resistance of cast irons, 10T987
BUNING, P: Three-dimensional computational analysis of complex launch vehicle configurations, 7A991
BUNKS, C: Multiscale seismic waveform inversion, 1A1384
BURAK, D: Variational estimation of soliton contribution to nonlinear propagation of Gaussians, 3A67
BURAK, VS: Nonstationary convection near a vertical surface with periodic change in heat flux, 6A1079
- Stable vortex structures in axisymmetric convective torch during oscillating combustion, 7A1340
BURAKOWSKI, T: Operation surface layer and its investigation (Polish), 6T825
BURATTINI, R: Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance, 10A1477
BURAVOVA, SN: Surface damage under dynamic loading, 12T936
BURCHAM, CL: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
BURCZYNSKI, T: Shape design sensitivity analysis via material derivative: Adjoint variable technique for 3D and 2D curved BEs, 1A879
BURDA, J: Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, 10A746
BURDE, GI: Construction of special explicit solutions of the boundary-layer equations: Unsteady flows, 3A940
BURDET, O: Ultrasonic measurements and static load tests in bridge evaluation, 6A695
BURDISSO, RA: Sensitivity analysis for feedforward control system design, 5A323
- Analytical investigation of active control of radiated inlet fan noise, 6A252
- Control of broadband acoustic radiation with adaptive structures, 9A375
- Active control of low-frequency broadband jet engine exhaust noise, 9A371
- Hybrid structural control approach for narrow-band and impulsive disturbance rejection, 9A425
- Acoustic radiation prediction of a compressor housing from 3D experimental spatial dynamics modeling, 9A340
- Time-averaged active controller for turbofan engine fan noise reduction, 11A259
BURDUKOVSKY, VG: Prediction of resources of materials of machine and construction elements in the process of manufacture and exploitation, 7A810
BURELBACH, JP: Temperature rise at the surface of a liquid layer subject to a concentrated heat source placed above the layer, 11A1119
BURGER, EH: Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, 5A1383
BURGESS JR, DR: Thermochemical and chemical kinetic data for fluorinated hydrocarbons, 11A1286
BURGESS, G: Fundamental collocation method applied to plane thermoelasticity problems, 2A1160
- Accurate body force integration in boundary methods applied to plane elasticity, 12A526
BURGESS, IC: Frictional resistance of new and explanted artificial hip joints, 5A771
BURGESS, IW: Nonlinear analysis for 3D steel frames in fire conditions, 5A731
- Lateral-torsional buckling of unrestrained steel beam in fire, 7A954
- Treatment of strain reversal in structural members during the cooling phase of a fire, 10A899
BURGESS, SL: Steady Ostwald flow between two differentially-rotating co-axial discs, 9A1083
BURGHARDT, WR: Comparison of optical and mechanical measurements of second normal stress difference relaxation following step strain, 1A959
- Nonlinear viscoelasticity and the thrombelastograph-I: Studies on bovine plasma clots, 6A1334
- First and second normal stress difference relaxation in reversing double-step strain flows, 6A866
- Molecular orientation of a liquid-crystalline polymer solution in mixed shear-extensional flows, 8A362
BURGOYNE, CJ: Analysis of the tensile strength of a parallel-lay ropes and bundles of parallel elements by probability theory, 2A457
- Monte-Carlo simulations of the time-dependent failure of bundles of parallel fibers, 10A164
BURGUETE, RL: Effect of mean stress on the fatigue limit of high tensile bolts, 2A584
- Effect of eccentric loading on the stress distribution in thread roots, 5A398
BURKE, SE: Modeling approach for 2D distributed transducers of arbitrary spatial distribution, 10A150
BURKE, SK: NDT of welds: State of the art, 12A803
- Benchmark problems for defect size and shape determination in eddy-current NDE, 12A798
BURKHALTER, JE: Grid fin aerodynamics for missile applications in subsonic flow, 7A1174
BURKHARDT, H: Influence of local fluid flow and the microstructure on elastic and anelastic rock properties, 11A1331
BURKHART, PD: Adaptive orbit determination for interplanetary spacecraft, 11A305
BURKHOLDER, TJ: Stepwise regression is an alternative to splines for fitting noisy data, 6A1361
- Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
BURKOV, IV: Stabilization of a programmed path of a robot with absolutely rigid and elastic members, 3A415
BURL, JB: Parametric uncertainty reduction in robust missile autopilot design, 11T316
BURLAND, JB: Logarithmic stress-strain function for rocks and soils, 9T685
BURLAT, M: Effect of re-coldworking on fatigue life enhancement of a fastener hole, 1A763
BURLESON, AC: Model based on dimensional analysis for non-invasive quantification of valvular regurgitation under confined and impinging conditions, 6T1348
BURLEY, C: Consistent approach for modeling the aerodynamics of self-generated rotor blade-vortex interactions, 10A1218
BURLION, N: Damage and localization in elastic materials with voids, 11A659
BURMAN, E: Numerical analysis of two operator splitting methods for an hyperbolic system of conservation laws with stiff relaxation terms, 5A924
BURMEISTER, LC: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
BURNAYEV, B: Small perturbations in the medium of variable mass, 8A251
BURNETTE, J: Number of limit cycles for the generalized mixed Rayleigh-Liénard oscillator, 6T104
BURNETTE, JE: Spurious limit-cycles arising in higher order averaging methods, 12T122
BURNS, DJ: Probabilistic model for initiation and propagation of surface cracks in welded joints, 1A772
BURNS, JA: Feedback controller for a flexible structure using piezoceramic actuators, 3A368
BURNS, P: Acoustic diagnostic analysis using BEs, 6A40
BURNS, PW: Energy-conserving reflection and transmission coefficients for a solid-solid boundary, 3A190
BUROV, AA: Motion of cross-shaped bodies, 10T76
BURR, A: Strength of metal-matrix composite joints, 1A952
- Micro-mechanics and continuum damage mechanics, 2A675
- Matrix cracking and debonding of ceramic-matrix composites, 6A449
BURR, DB: Resistance to crack growth in human cortical bone is greater in shear than in tension, 12A1450
BURR, ST: Method for determining critical strain gage size in anisotropic materials with large repeating unit cells, 2A715
BURRAGE, K: Implementation of a Generalized Cross Validation algorithm using deflation techniques for linear systems, 6A58
- Performance of preconditioned waveform relaxation techniques for pseudospectral methods, 7A1250
- Restarted GMRES preconditioned by deflation, 12A85
BURRAGE, MD: Stellar alignment of the high resolution Doppler image, 5A242
BURRER, C: Experimental characterization of dynamic micromechanical transducers, 10A457
BURRIDGE, R: Beyond effective modium theory: Pulse stabilization for multimode wave propagation in high-contrast layered media, 7A232
BURROWS, AP: Optimal excitation for aircraft flutter testing, 6A221
- Use of a rising-falling chirp excitation for vibration testing, 10A141
BURROWS, CR: Magnitude of the losses in the steel pushing V-belt continuously variable transmission, 7A1008
- On-line controller implementation for attentuation of synchronous and transient rotor vibration, 12A409
- Automated fault tree analysis for hydraulic systems, 12A421
BURROWS, R: Review of the probabilistic description of Morison wave loading and response of fixed offshore structures, 1A261
- Wave predictions based on scatter diagram data: A computer program package, 3A206
- Wave predictions based on scatter diagram data: A review, 3A205
BURRUS, D: Effect of dilution air on the scalar flowfield at combustor sector exit, 4A1256
BURRUS, DL: Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, 5A1286
BURSI, OS: Evaluation of some implicit time-stepping algorithms for pseudodynamic tests, 9A1397
BURSTOW, MC: Predicting the effects of crack tip constraint on material resistance curves using ductile damage theory, 10A785
BURT, EC: Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, 2A792
BURTON, DR: Use of carrier frequency shifting for the elimination of phase discontinuities in Fourier transform profilometry, 2A52
- Applying backpropagation neural networks to fringe analysis, 3A726
BURTON, RT: Experimental identification of a flow orifice using a neural network and the conjugate gradient method, 12A424
BURTON, WS: Computational models for sandwich panels and shells, 6A483
BURTSCHELL, Y: Dissociation rate constants in nonequilibrium flows, 4T994
BURTSCHER, H: Efficient multiple charging of diesel particles by photoemission, 7A1354
- Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
BUSBY, HR: Ultrasonic stress measurements based on the generalized acoustic ratio technique, 6A697
BUSCAGLIA, GC: Optimization strategies in unstructured mesh generation, 12A48
BUSCALL, R: Shear thickening in model suspensions of sterically stabilized particles, 12A1005
BUSCHER, P: Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
BUSH, MB: Effects of reinforcement geometry on the elastic and plastic behavior of metal matrix composites, 2A423
- Crack tip damage development and crack growth resistance in particulate reinforced metal matrix composites, 9A815
BUSH, RH: Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, 9A1233
BUSHBY, K: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319
BUSHE, NA: Dissipative self-orginization of rubbing surfaces in tribosystems, 5A761
BUSHMAN, R: Mechanistic evaluation of fly ash asphalt concrete mixtures, 7A546
BUSHNELL, D: Approximate method for the optimum design of ring and stringer stiffened cylindrical panels and shells with local, inter-ring, and general buckling modal imperfections, 8A707
BUSHNELL, DM: Hypervelocity scramjet mixing enhancement, 2T1198
BUSHNELL, WD: Approximate method for the optimum design of ring and stringer stiffened cylindrical panels and shells with local, inter-ring, and general buckling modal imperfections, 8A707
BUSNAINA, AA: Removal of particulate contaminants using ultrasonics and megasonics: A review, 7A1039
- Adhesion and removal of particles from surfaces, 7A1035
BUSSE, FH: Standing and traveling oscillatory blob convection, 2A880
- Three-dimensional convection driven by centrifugal buoyancy, 4A1162
- Hydromagnetic instabilities driven by the Hartmann boundary layer in a rapidly rotating sphere, 6A983
- Three-dimensional convection in the presence of strong vertical magnetic fields, 8A996
BUSSE, G: Amplitude-modulated lock-in vibrothermography for NDE of polymers and composites, 10A859
BUSSI, G: Analysis of air-turborocket performance, 2A1194
BUSSING, W: Isothermal liquid transport in porous media: Capillary hysteresis effects, 8A1304
BUSSINK, PGJ: Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, 2A158
BUSSO, EP: Dislocation mechanics-based crystallographic model of a B2-type intermetallic alloy, 8A438
BUSTGENS, B: Microvalves with bistable buckled polymer diaphragms, 10T462
BUSTILLOS, J: Buckling of filament-wound cylindrical vessels subjected to external pressure, 10A631
BUTAKOV, AA: Study of crack appearances in porous media combustion, 3A1267
BUTCHER, JC: Parallel general linear methods for stiff orindary differential and differential algebraic equations, 2A40
BUTENKO, YI: Calculation of mechanical characteristics of composite materials based on the results of the multilayered structure work (Russian), 7A590
BUTER, TA: Numerical study of alternate forms of dynamic-stall-vortex suppression, 5T998
- Performance characterization of a highly offset diffuser with vortex generator jets, 8A957
BUTINAR, BJ: Shape optimal design of elastic planar frames with nonlinear response, 2A732
BUTLER , DL: Topographic features of cylinder liners: An application of 3D characterization techniques, 6T851
BUTLER, DL: Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443
BUTLER, JL: Analysis of harmonic distortion in electroacoustic transducers, 1A192
BUTLER, PB: Detonation wave structure of gases at elevated initial pressures, 5A1232
- Methanol and hydrogen oxidation kinetics in water at supercritical states, 12A1308
BUTLER, R: Optimum design of bending-torsion coupled beams with frequency or aeroelastic constraints, 12A823
BUTLER, RJ: Shroud technique using the transient method for local heat transfer measurements, 4A1176
BUTOESCU, V: Pressure distribution on oscillating bodies in subsonic flow, 11A912
BUTSKY, ND: Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, 10A1352
BUTT, DP: Hydrogen corrosion considerations of carbide fuels for nuclear thermal propulsion applications, 4A1275
BUTTERMANN, GR: Determination of spinal facet joint loads from extra-articular strains: A theoretical validation, 10A1463
BUTTON, ST: Cylinders and rings hot upset forging analysis by the FEM (Spanish), 10A700
BUTTSWORTH, DR: Gun tunnel investigation of hypersonic free shear layers in planar duct, 2A906
- Interaction oblique shock waves and planar mixing regions, 7A280
BUTURISHVILI, ZS: Natural circulation in circular channels, 1A1234
BUXBAUM, RE: Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, 5A1374
BUXTON, H: Dynamic motion planning using a distributed representation, 5A376
BUYAKAS, VI: Kinematic waves in large controlled structures, 3A374
BUYEVICH, YA: Towards a theory of nonequilibrium multiphase filtration flow, 4A1312
- Cooling of a superheated surface with a jet mist flow, 11A1178
- Self-oscillating regimes of nucleate, transition and film boiling, 11A1165

- Dynamics of vapor bubbles in nucleate boiling, 11A1161
BUYRUK, E: Theoretical analysis of the thermal resistance of non-uniform fouling on cross-flow heat exchanger tubes, 3A1150
BUYS, JD: Minimization of the exit loss of a rotor-only axial fan, 11A1056
BUYUKOZTURK, O: Interface Fracture and Bond, 8N16
BY, RR: Measurement and analysis of static pressure field in a torque converter turbine, 5A1041
BYCHKOVA, NY: Wear resistance of rail and wheel steels, 5A818
BYCHTO, L: Registration of delaminations of thin coatings of thick substrates with thermal waves, 1A1292
BYCHVAROV, SN: Investigation of engine-excited vertical automobile vibrations, 3A81
BYERLEY, AR: Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
BYERS, RM: Time optimal attitude control of asymmetric rigid spacecraft, 6A332
BYLICA, K: Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), 3A590
BYRD, LW: Condensation heat transfer on vertical axis, axisymmetric, rotating surfaces, 3T1087
BYRKIN, AP: Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094
BYRNE, JG: Causality and the complex modulus model of damping, 4T143
BYRNE, RJ: Strain-softening behavior of waste containment system interfaces, 12A665
BYSKOV, E: Elastic postbuckling with nonlinear constraints, 11A537
BYSTROM, H: Study of moist air flows with mass, momentum and energy exchange in the ventilation network area of underground mines (Polish), 9A1409
BYSTROV, VM: Numerical study of marginal effects in adhesive compounds (Russian), 3A488
BYUN, CHANSUP: Wing-body aeroelasticity on parallel computers, 9A326

C

CABAJ, J: Common way of estimation of cable forces (Polish), 3A524
CABALLERO, L: Tensile failure of stainless-steel notched bars under hydrogen charging, 10A747
CABRERA, JG: Corrosion measurements on reinforcement in silica fume concrete, 2A591
CABRILLAC, R: Dependence of porous media on geometrical parameters (French), 11A562
CABUZ, C: Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, 3A395
- Microphysical investigations on mechanical structures realized in p+ silicon, 5T352
CACERES, CH: Damage by the cracking of silicon particles in an Al-7Si-0.4 Mg casting alloy, 5A639
CADY, C: Stress redistribution around mechanical attachments in ceramic matrix composites, 1A546
CAEN, R: New high supply pressure pneumatic flapper-nozzle with linear behavior, 12A427
CAETANO, MAL: New iterative method to solve optimal control problems with terminal constraints, 6T286
CAFEO, JA: Assessment function for improving the accuracy of estimated modal parameters, 4A133
- Beam element structural dynamics modification using experimental modal rotational data, 5A116
CAFFERTY, S: Characterization of automotive shock absorbers using random excitation, 4A222
CAHYADI, JH: Relation between phase composition, pore structure, and compressive strength of carbonated mortar, 6T862
CAI, BAOLIN: Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers, 11A1438
CAI, CB: Coupling model of vertical and lateral vehicle-track interactions, 12A200
CAI, GQ: Probabilistic Structural Dynamics: Advanced Theory and Applications, 6R6
- Application of quasi-conservative averaging to a nonlinear system under nonwhite excitation, 5A104
CAI, JUN: Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles, 3A1286
CAI, L: New approach to robust position-force control of flexible-joint robot manipulators, 11A393
- Analysis of laser evaporative and fusion cutting, 11A591
CAI, LI-HONG: Model-based path planning for laser cutting of curved trajectories, 10A721
CAI, SHUTANG: Mechanism of turbulent coherent structure - II: A physical model of coherent structure for the rough boundary layer, 11A994
CAI, WEI: Adaptive multiresolution collocation methods for initial boundary value problems of nonlinear PDEs, 12A58
CAI, WENXUE: Reliability of structural system under hazard action (Chinese), 8A735
CAI, X: Asymptotic crack-tip fields in anisotropic power law material under antiplane shear, 1A825
- Stress exponents of asymptotic solutions at the notch tip in anisotropic power law material under antiplane shear, 6A674
- Study on personal noise exposure in China, 12A299
CAI, X-M: Von Karman constant determined by large eddy simulation, 12A1423
CAI, XIAOMING: Resolved-scale turbulence in the atmospheric surface layer from a large eddy simulation, 3A1349
CAI, Y: Experimental fluid-force coefficients for wake-induced cylinder vibration, 1A252
- Parallel block preconditioning techniques for the numerical simulation of the shallow water flow using FEMs, 3A22
- Simulation on the rotational vibration of helical gears in consideration of the tooth separation phenomenon: A new stiffness function of helical involute tooth pair, 5A823
- Experiment of chaotic vibration of loosely supported tube rows in cross-flow, 5A217
- Unsteady-motion theory of magnetic forces for maglev systems, 6A777
- Application of chaos theory in identification of two-phase flow patterns and transitions in a small, horizontal rectangular channel, 12A108
CAI, YONG-LIN: Generalized variational priciples for the natural frequencies of elastic cylindrical shells, 1A156
CAI, YONGSHENG: Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, 9A444
CAI, Z: Deterministic sliding block methods for estimating seismic displacements of earth structures, 12A1400
CAI, ZENGSHEN: Support leg stress in pressure vessels mounted on arbitrary legs subjected to lateral loadings, 10A954
CAI, ZHENYE: Comprehensive evaluation and prediction and enhancement of boiling heat transfer with additives (Chinese), 8A1123
CAI, ZHIJIE: Convergence of a numerical method in mathematical spontaneous potential well-logging, 8A1321
CAILLETAUD, G: Strain localization in single crystals: Bifurcation analysis, effects of boundaries and interfaces, 3A475
- Study of plastic-viscoplastic models with various inelastic mechanisms, 5A453
CAINES, PE: Adaptive control of jump parameter systems via nonlinear filtering, 4T338
- Adaptive control via a simple switching algorithm, 7A376
CAIRNS, J: Alternative strategies for temporary support during structural repair of reinforced-concrete beams, 8A738
CAJOT, L-G: Simple model for the fire resistance of axially loaded members: Comparison with experimental results, 11A769
CAKMAK, AS: Interval algebra to deal with pattern loading and structural uncertainties, 3A770
- Fast cell-to-cell mapping (path integration) for nonlinear white noise and Poisson driven systems, 3A60
- Stochastic dynamics of geometrically nonlinear structures with random properties subject to stationary random excitation, 8A99
- Faster simulation methods for the nonstationary random vibrations of nonlinear MDOF systems, 9A115
CAL, YUDONG: Soil classification by neural network, 1A689
CALABRESE, SJ: Redesigning mechanical systems for low wear using system dynamics modeling, 10T972
CALAHAN, DA: Performance of a finite volume CEM code on multicomputers, 4A53
CALAYIR, Y: Asynchronous dynamic analysis of dam-reservoir-foundation systems by the Lagrangian approach, 5A1312
- Earthquake analysis of gravity dam-reservoir systems using the Eulerian and Lagrangian approaches, 9A1396
CALDAS, IL: Dimerized island chains in tokamaks, 3A984
CALDERSMITH, G: Designing a guitar family, 2A214
CALDWELL, BD: Effect of actuator nonlinearities on aeroservoelasticity, 8A1016
CALDWELL, GE: Improved agreement of foot segmental power and rate of energy change during gait: Inclusion of distal power terms and use of 3D models, 10A1470
CALDWELL, RD: Re-engineering the product development cycle and future enhancements of the computer integrated environment, 4A419
CALER, WE: Cyclic mechanical property degradation during fatigue loading of cortical bone, 6A1309
CALERO, JA: Dynamic processes during in-flight motion of Cr_3C_2-NiCr powder particles in high velocity oxy-fuel (HVOF) spraying, 7A1086
CALIENDO, JA: Iterative FE-BE algorithm, 9A61
CALIO, F: Numerical solution of the generalized Prandtl equation using variation-diminishing splines, 3A996
CALISE, AJ: Evaluation of optimal-guidance algorithm for aerossasited orbit transfer, 1T392
- Optimal guidance of aeroassisted transfer vehicles based on matched expansions, 1T399
CALLADINE, CR: Investigation into upheaval buckling of buried pipelines - I: Experimental apparatus and some observations, 2A486
- Investigation into upheaval buckling of buried pipelines - II: Theory and analysis of experimental observations, 2A487
CALLAGHAN, JJ: Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, 8A1450
CALLAHAN, J: Modal analysis using segmented piezoelectric sensors, 4A231
- Active control of flexible structures by use of segmented piezoelectric elements, 12A394
CALLANAN, JE: Fusion temperatures and enthalpies of high-temperature materials determined by differential thermal methods, 3A1015
CALLIBOTTE, G: Integration of in-site control systems in laser welding processes (French), 4A873
CALLOROTTI, RC: Proper eigenvalue solution for the transient response of multidimensional heat transfer systems, 2A1132
CALOMINO, AM: Optimum notch configurations for the chevron-notched four-point bend specimens, 6A692
CALTAGIRONE, J-P: Local multigrid refinement method for natural convection in fissured porous media, 5A1152
CALVET, JL: Invariant imbedding and parallelism in dynamic programming for feedback control, 3A323
CALVI, GM: Displacement-based seismic design of multi-dof bridge structures, 1A1393
- Problems and certainties in the experimental simulation of the seismic response of MDOF structures, 7A1380
CALVO, M: Global error estimation with adaptive explicit Runge-Kutta methods, 6A34
CALZAVARINI, R: Advanced ceramic tools: An experimental assessment in turning tests, 6A569
CAMARERO, R: Error estimator and adaptive moving grids for finite volumes schemes, 4A61
- Grid influence on upwind schemes for the Euler and Navier-Stokes equations, 9A88
CAMASSA, R: Weakly nonlinear internal waves in a two-fluid system, 11A202
CAMBOU, B: Homogenization for granular materials: Non reversible behavior, 11A1314
- Micromechanical modeling of anisotropic nonlinear elasticity of granular medium, 11A409
CAMCI, C: Analysis and quantification of a solid-state laser Doppler anemometer, 3A1008
CAMERON, IT: Numerical solution of DAE systems using block BDF methods, 4A85
CAMMARATA, RC: Surface-Interface and Stress Effects in Electronic Material Nanostructures, Volume 405, 11N10
CAMP, CV: Explicit time-integration method for damped structural systems, 8A161
CAMPANA, E: Viscous-inviscid coupling in free surface ship flows, 3A899
CAMPANELLI, RW: Effect of delaminations in graphite-PEEK composite plates on modal dynamic characteristics, 1A569
CAMPBELL, BT: Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, 3A1076
CAMPBELL, GJ: Development of a bone ankle exercizer, 11A1473
CAMPBELL, IMD: Assessment of failure criteria for fiber-reinforced composite laminates, 4A719
CAMPBELL, J: Wetting kinetics of molten 60Sn40Pb on a Ag-0.33 wt% Pt thick film conductor, 3A871
CAMPBELL, KB: Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance, 10A1477
CAMPBELL, KW: Characteristics of free-field vertical ground motion during the Northridge Earthquake, 7A1372
CAMPBELL, ME: Asymptotic linear quadratic control for lightly damped structures, 12T400
CAMPBELL, SB: Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, 7T1412
CAMPBELL, SL: Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations - Classics in Applied Mathematics, Vol 14, 6R2
CAMPELL, SA: Complex dynamics and multistability in a damped harmonic oscillator with delayed negative feedback, 5A90
CAMPING, JD: Crack-detection device for brittle-matrix composite materials, 5T488
CAMPION, G: Control of nonholonomic wheeled mobile robots by state feedback linearization, 4A397
CAMPO, A: Heat removal from tubes with externally, longitudinal fins: Distributed and lumped models, 10T1315
CAMPOLINA FRANCA, GA: Nachtsheim and Swigert method extended to the study of the 2D plane or axisymmetric, nonisothermal, laminar boundary-layer with blowing (French), 11A941
CAMPOS, A: Non-Newtonian EHL model for traction evaluation in a roller-inner ring contact in a roller bearing, 12A1191
CAMPOS, LMBC: Spiral coordinates with application to wave propagation, 4A255
- Correlation of acoustic pressures induced by a turbulent wake on a nearby wall, 9A344
CAMPOS-POZUELO, C: Finite amplitude flexural vibrations at ultrasonic frequencies in metallic bars, 1A133
CAMUSSI, R: Extended self similarity and the form function, 5A960
- Experimental analysis of scaling laws in low RE_λ grid-generated turbulence, 7A1129
- Extended self-similarity in anisotropic grid-generated turbulent flow, 10T1182
CANAPLE, B: Impact on planar kinematic chain of rigid bodies: Application to movements of anthropomorphic dummy in a crash, 10A82
CANAS, J: Contact problems with nonconforming discretizations using BEM, 2A372
- Simplified numerical analysis of residual stresses in aluminum welded plates, 3A441
- One-dimensional model for the prediction of residual stress and its relief in welded plates, 9A517
CANBAZOGLU, S: Buffeting of fin: Distortion of incident vortex, 4A942
- Buffeting of fins: An assessment of surface pressure loading, 4T943
- Buffeting of a fin: Streamwise evolution of flow structure, 7A1153
CANCILLO, ML: Towards a theory of the surface conductance coefficient in solids, 1T1257
CANDEL, S: Applications of direct numerical simulation to premixed turbulent combustion, 11A1276
CANDLER, GV: Comparison of theory with atomic oxygen radiance data from a rocket flight, 3A992
- Comparison of coupled radiative flow solutions with Project Fire II flight data, 3A1134
- Kinetics of the $N_2 + O \rightarrow NO + N$ reaction under thermodynamic nonequilibrium, 6A1198
- Examination of OH ultraviolet radiation from shock-heated air, 10A1306
- Numerical simulation of nonequilibrium condensation in a hypersonic wind tunnel, 10A1279
- Data-parallel lower-upper relaxation method for the Navier-Stokes equations, 12A1054
CANDY, JV: Passive localization in ocean acoustics: A model-based approach, 1A307
- Model-based environmental inversion: A shallow water ocean application, 1A306
CANFIELD , RA: Finite element model tuning using automated structural optimization system software, 7A13
CANFIELD, RA: Multivariate Hermite approximation for design optimization, 8A717
CANN, PM: Measurement and modeling of boundary film properties of polymeric lubricant additives, 7T1188
- Additives for fluorosilicone oils at high temperature, 12A1195
CANNAROZZI, AA: Displacement scheme with drilling dof for plane elements, 3A27
CANNAROZZI, M: Displacement scheme with drilling dof for plane elements, 3A27
- Formulation and analysis of variational methods for time integration of linear elastodynamics, 4A433
CANNISTRA, G: Finite element analysis of the thermal field in the rotor during induction motor start-up, 10A1287
CANNMO, P: Modeling of plasticity and damage in a polycrystalline microstructure, 5A433
CANNON JR, RH: Experiments with model-simplified computed-torque manipulator controllers for free-flying robots, 4A406
CANNON, DJ: Dynamic point specification approach to sequencing robot moves for PCB assembly, 4A420
CANNON, RW: Straight talk about anchorage to concrete - Part I, 3A797
- Straight talk about anchorage to concrete - Part II, 5A723
CANNY, J: Shortest paths for a car-like robot to manifolds in configuration space, 7A457
CANO, RJ: Environmental effects on stitched RTM textile composites, 10A585
CANOVAS, MF: Modulus of elasticity of high performance concrete, 5A677
CANTONI , MW: Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, 8T281
CANTWELL, BJ: Topology of fine-scale motions in turbulent channel flow, 9A1188
CANTWELL, WJ: Interlaminar fracture behavior of carbon fiber reinforced plastics at low temperatures, 8A652
CANUTO, VM: Turbulence modeling over 2D hills using an algebraic Reynolds Stress expression, 8T1366
CAO , DENGQING: Necessary and sufficient condition for the unconditionally stability of one-step Newmark's predictor-corrector algorithm (Chinese), 9A63
CAO , LIANGYUE: Convective Coupled Map for simulating spatiotemporal chaos in flows, 3A97
CAO , YIHUA: Analytical model of helicopter air combat and mathematic inverse solution, 7A390
CAO, D: Measurements of the flow in an idealized turbine tip gap, 5A1035

CAO, HONG: Stability analysis of bars with varying cross-section, 1A646
- Static and dynamic analysis of straight bars with variable cross-section, 10A604
CAO, J: Numerical simulation of granular Couette flows between two rough parallel plates, 3A929
- Gravity granular flows of slightly frictional particles down an inclined bumpy chute, 12A1002
CAO, JIASU: Exact absorbing boundary condition and its application to 3D scattering from thin dispersive structures, 9A382
CAO, JINGJUN: Computer-extended perturbation solution for the large deflection of a circular plate - Part I: Uniform loading with clamped edge, 11A509
CAO, JJ: Determination of bolt forces in a circular flange joint under tension force, 10A1034
CAO, L: Predictor-corrector zig-zag model for the bending of laminated composite plates, 5A394
- Behavior of RC bridge decks with flexible girders, 6A767
CAO, LI LI: Study on wear behavior of low Cr steel under the effect of impact loading, 12A913
CAO, W: Approximate formulation for coupled conduction and radiation through a medium with arbitary optical thickness, 3T1138
- Overload effects in environmental hydrogen induced fracture, 11A646
CAO, WEIMING: Spectral method for the fluid flow with low Mach number on the spherical surface, 4A999
CAO, XISHENG: Computational prediction and redesign for viscoelastically damped structures, 1A483
CAO, Y: Fluid flow analysis in an axially rotating porous pipe with mass injection at the wall, 5A1298
CAO, YIDING: Thermal analysis of a piston cooling system with reciprocating heat pipes, 2A1141
- Piston assembly design for improved thermal-tribological performance, 8A822
CAO, ZHIXIAN: Sediment-laden flow in open channels from two-phase flow viewpoint, 2A862
CAO, ZHONGMIN: Study of brine driven absorbing evaporation system (Chinese), 8A1378
CAO, ZHUQING: Application of the improved BP network to rotating machinery fault diagnosis (Chinese), 6A353
CAO, ZN: Numerical analysis of fully penetrated weld pools in gas tungsten arc welding, 11A836
CAPATINA, A: Optimality conditions for control problems in heat conducting Navier-Stokes fluid, 11A870
CAPE, EG: How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, 12A1474
CAPECCHI, D: Damage evaluation in cracked vibrating beams using experimental frequencies and FE models, 6A122
- Motion of a rigid body with a rounded base due to harmonic excitation, 10A110
CAPELLO, A: Mechanical validation of whole bone composite femur models, 8A1410
CAPERAA, S: Incremental formulation for the linear analysis of thin viscoelastic structures using generalized variables, 2A387
CAPINSKI, M: Nonstandard Methods for Stochastic Fluid Mechanics - Series on Advances in Mathematics for Applied Sciences, Vol 27, 11N43
CAPITAO, R: Wave predictions based on scatter diagram data: A computer program package, 3A206
- Wave predictions based on scatter diagram data: A review, 3A205
CAPITELLI, M: Two-temperature Saha equation: A misunderstood problem, 3T1012
CAPODANNO, P: Sur les petites oscillations d'une goutte de liquide catenoidale entre deux plaques parralleles en apesanteur (French), 2A180
- Mathematical study of the small oscillations of a liquid column in a symmetrical cylindrical container under zero gravity, 3T904
- Mathematical study of small oscillations of two non-miscible heavy liquids in a container (French), 7T1124
CAPONE, DE: Calculation of turbulent boundary layer wall pressure spectra, 3A255
CAPONETTO, R: Controller order reduction by using genetic algorithms, 10A429
CAPORICCI, M: Design studies of the advanced technology engine, 4A1270
CAPORICCIO, G: Additives for fluorosilicone oils at high temperature, 12A1195
CAPPA, P: Verification of the duplex gauge using variable strains and temperatures, 12A806
CAPPELLETTI, A: Advection-diffusion processes and residence times in semienclosed marine basins, 12A1410
CAPPELLI, MA: Fluorescence velocity measurements in the interior of a hydrogen arcjet nozzle, 9T1251
CAPRANI, A: Electrochemical analysis of blood cell-substrate interactions under flow conditions, 2T1303
CAPRINO, G: Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, 9A708
- Correlation between flexural and tensile fatigue response of short glass fiber reinforced plastics, 12A538
CAPS, R: Radiation-conduction interaction: An investigation on silica aerogels, 10A1303
CAPSONI, A: Plane strain formulation of the elastic-plastic constitutive law for hardening von Mises materials, 1A512
CAPUANI, D: Dynamic analysis of coupled shear wall-frame systems, 11A140
CAPUTO, AC: Analysis of heat recovery in gas-solid moving beds using a simulation approach, 3A1258
CARA, M: Limits of linear moment tensor inversion of surface wave spectra, 4A1321
CARABINEANU, A: Application of the BEM to the magneto-hydrodynamic duct flow, 5A56
- Boundary element approach to the 2D potential flow problem around airfoils with cusped trailing edge, 9A1215
- Application of the BEM to the study of 2D subsonic lifting flow past smooth profiles, 9A104
CARANGELO, MD: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
CARASSITI, F: Hot pressing of plasma-sprayed SiC fiber-reinforced Ti-6Al-4V alloy, 11A608
CARAUSU, A: Fragility estimation for seismically isolated nuclear structures by high confidence low probability of failure values and bi-linear regression, 9A1414
CARCASCI, C: Numerical method for power plant simulations, 8A1285
CARCATERRA, A: Energy density equations and power flow in structures, 6A51
- Envelope energy model for high frequency dynamic structures, 6A52
- Circumventing space sampling limitations in mechanical vibrations, 11A99
CARCIONE, J: Radiation patterns: Possibility for monitoring seismic sources, 6A1254
CARCIONE, JM: Torsional oscillations of anisotropic hollow circular cylinders, 2A113
- Wave propagation in anisotropic, saturated porous media: Plane-wave theory and numerical simulation, 10A353
- Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling, 11A1362
- Two-dimensional Chebyshev differential operator for the elastic wave equation, 12A232
CARD, JM: Influences of flame-vortex interactions on formation of oxides of nitrogen in curved methane-air diffusion flamelets, 10A1361
- Application of rate-ratio asymptotics to the prediction of extinction for methanol droplet combustion, 10A1379
CARDARELLI, G: Analysis of heat recovery in gas-solid moving beds using a simulation approach, 3A1258
CARDER, DR: Performance of push-in spade cells installed in stiff clay, 2T514
CARDEW, GE: Local grid refinement method for determining stress intensity factors for cracks at notches, 10A816
CARDIN, F: Internal work in generalized hyperelastic materials, 5A389
CARDINAL, JW: Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, 10A825
CARDON, AH: Durability Analysis of Structural Composite Systems: Reliability, Risk Analysis, and Prediction of Safe Residual Integrity, 11N27
- Progress in Durability Analysis of Composite Systems - Proc of Int Conf DURACOSYS 95, Brussels, Belgium, July 1995, 11N36
CARDONA, DC: Finite-element analysis of selectively SiC fiber-reinforced titanium composites, 10A12
CARDONA, S: Convolution application to determine the dynamic response of a railway track, 5A151
CARDONE, G: Viscous interaction phenomenon in hypersonic wedge flow, 4A1031
CARDOS, V: Prediction of the aerodynamic loads on helicopter blades by lifting line method, 11A1035
- Inverse integral method for nonequilibrium turbulent boundary layers, 11A993
CARDOU, A: Effect of lubricant in electrical conductor fretting fatigue, 4A682
CARDUCCI, F: In-orbit mission reconfiguration for Italsat system, 5A747
CAREY, GF: Simulation of fluid mixing using least-squares FEs and particle tracing, 1A1009
- Vector-parallel scheme for Navier-Stokes computations at multi-Gigaflop performance rates, 2A61
- High-order compact scheme for the steady stream-function vorticity equations, 3A910
- Finite element analysis of anisotropic fluid suspensions, 6A20
- Least-squares mixed FEM for non-selfadjoint elliptic problems - Part I: Error estimates, 7A8
- High-order compact formulation for the 3D Poisson equation, 7A49
- Symmetric formulation and SUPG scheme for the shallow-water equations, 8T882
CAREY, VP: Role of Marangoni effects on the critical heat flux for pool boiling of binary mixtures, 8A1127
CARICO, D: Simulation of DD-963 ship airwake by Navier-Stokes method, 5T1020
CARIDAD, JM: Statistical distribution of the clearness index with radiation data integrated over five minute intervals, 5A1358
CARINI, A: Colonnetti's minimum principle extension to generally nonlinear materials, 2A2
CARLES, P: Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, 12A1216
CARLETTI, MJ: Use of streamwise vorticity to increase mass entrainment in a cylindrical ejector, 2A967
CARLSEN, WD: Development of transonic area-rule methodology, 2A1033
CARLSON , WB: Modeling of piezoresistively-controlled electromechanical smart material, 3A768
CARLSON, DE: Hyperelasticity with internal constraints, 11A407
CARLSON, HA: Flow over an obstacle emerging from the wall of a channel, 10A1150
CARLSON, LA: Viscous normal shock solutions including chemical, thermal, and radiative non-equilibrium, 3A1137
- Integrated determination of sensitivity derivatives for an aeroelastic transonic wing, 7A1155
CARLSON, M: Concentration and temperature measurements in a laser-induced high-explosive ignition zone - Part I: LIF spectroscopy measurements, 10A1381
CARLSON, RL: Introduction to Fatigue in Metals and Composites, 9R11
- Micromechanical model for the fiber bridging of macro-cracks in composite plates, 9A549
CARLSSON, AE: Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409, 8N15
CARLSSON, LA: Influence of water absorption on transverse tensile properties and shear fracture toughness of glass-polypropylene, 12A755
CARLSSON, P: Optimization of a racing ski, 2A730
CARMAN, G: Processing monitoring of carbon-phenolic composites using smart sensors, 1A589
CARMAN, GP: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
- Micro-mechanical model of a composite containing a conservative nonlinear electro-magneto-thermo-mechanical material, 3A483
- Nonlinear constitutive relations for magnetostrictive materials with applications to 1D problems, 3A5
- Effect of fatigue damage in woven composites on thermomechanical properties and residual compressive strength, 8A639
CARMONA, M: Dynamic simulations of micro-pumps, 10T455
CARNALI, JO: Examination of the composite model for starch gels, 8A864
CARNE, TG: Natural excitation technique (NExT) for modal parameter extraction from operating structures, 4A146
CARNEVALE, GF: Dynamics of a vortex ring in a rotating fluid, 12A1033
CARO, CG: Biological Flows, 9N32
CAROSONE, F: Recognition of partially overlapped particle images using the Kohonen neural network, 2A1070
CARPENTER, PW: Effect of solid surfaces on turbulent jet noise, 1A295
CARPENTER, WC: Insensitivity of the reciprocal work contour integral method to higher order eigenvectors, 7A863
CARPER JR, HJ: Rating thread compounds for galling resistance, 5T788
CARPINO, M: Damage-mitigating control of mechanical structures: Experimental verification of the concept, 1A883
CARPINTERI, A: Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, 3A705
- Part-through cracks in round bars under cyclic combined axial and bending loading, 8A578
- Size effects on concrete fracture energy: Dimensional transition from order to disorder, 11A664
CARPIO, A: Large-time behavior in incompressible Navier-Stokes equations, 9A1069
CARR, AJ: Compression behavior of bridge bearings used for seismic isolation, 9A240
CARR, LW: Boundary-layer-tripping studies of compressible dynamic stall flow, 6A1017
- Phase-locked high-speed real-time interferometry system for large amplitude unsteady flows, 6A1058
CARRANO JR, CS: Fourier analysis and dynamic optimization of the Petrov-Galerkin FEM, 5A25
CARRARA, SLA: Numerical analysis of asymmetrical-core two-mode fiber interferometers subjected to bending, 9T878
CARRATO, PJ: Tension tests of heavy-duty anchors with embedments of 8 to 19 inches, 11A700
CARREAU, PJ: Direct modeling of flow of FENE fluids, 2A840
- Steady and dynamic shear properties of non-aqueous drag-reducing polymer solutions, 5A861
CARRER, JAM: Time-domain BEM analysis for the 2D scalar wave equation: Initial conditions contributions to space and time derivatives, 12A312
CARRERA, E: C^0 Reissner-Mindlin multilayered plate elements including zig-zag and interlaminar stress continuity, 11A527
CARRICA, P: Electric field effects on film boiling on a wire, 12A1231
CARRIER, GF: Nonintrusive stabilization of a conical detonation wave for supersonic combustion, 5A1235
CARRINGTON, CG: Calorimeter measurements of a heat pump dehumidifier: Influence of evaporator air flow, 3A1159
- New numerical scheme for convective dominated heat transfer in a porous medium with strong temperature gradients, 4A1320
CARRION, P: Reflection tomography using Gibbs statistics, 5A1310
- Radiation patterns: Possibility for monitoring seismic sources, 6A1254
CARRIVEAU, G: Microwave imaging of thick composite panels with defects, 1A853
CARROLL, BF: Turbulent Flows - 1995 ASME/JSME Fluids Eng Conf, 1N33
- Step response of pressure-sensitive paints, 8A1044
CARROLL, DL: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082
CARROLL, M: Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, 7A565
CARROLL, MM: Nonlinear Effects in Fluids and Solids - Math Concepts and Methods in Science and Engineering Series, Vol 45, 11N7
CARROLL, WF: Space shuttle liftoff pressure wave, 9A296
CARROTTE, JF: Detailed measurements on a modern combustor dump diffuser system, 5A1273
CARROZZA, MC: Fluid handling system for a chemical microanalyzer, 10T458
CARRYER, JE: Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, 9A1340
CARSTENSEN, C: Coupling of FEM and BEM for a nonlinear interface problem: The h-p version, 1A31
- Interface problems in elasto-viscoplasticity, 4A464
CARTALOS, U: Fluid flow in a skewed annulus, 12A1124
CARTER , TE: Optimal power-limited rendezvous of a spacecraft with bounded thrust and general linear equations of motion, 6T317
CARTER, CD: Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, 2A1183
- Relationships among nitric oxide, temperature, and mixture fraction in hydrogen jet flames, 8A1260
- Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, 11A1301
CARTER, DR: Cyclic mechanical property degradation during fatigue loading of cortical bone, 6A1309
CARTER, F: Clamping the small intestine during surgery: Predicted and measured sealing forces, 2T1301
CARTER, JP: Elastic analysis of buried structures subject to 3D surface loading, 11A767
CARTER, MC: Separation of fetal and maternal ECG complexes from a mixed signal using an algorithm based on linear regression, 1A1465
CARTER, MT: Near-minimum-time maneuvers of large structures: Theory and experiments, 4T375
CARTER, P: Failure analysis and life prediction of a large, complex plate fin heat exchanger, 9A762
CARTER, TE: Linearized impulsive rendezvous problem, 2T204
- Optimal power-limited rendezvous with thrust saturation, 3A353
CARTER, TJ: Failure analysis and life prediction of a large, complex plate fin heat exchanger, 9A762
CARTER, WC: Binary model of textile composites - II: The elastic regime, 1A536
CARTLEDGE, HCY: Friction and wear mechanisms of a thermoplastic composite GF/PA6 subjected to different thermal histories, 12A887
CARTLIDGE, J: Initiation of the pre-flame reaction of n-heptane in a motored engine, 7A1344
CARTWRIGHT, DJ: Localized Damage IV: Computer-Aided Assessment and Control - Proc of 4th Int Conf, Fukuoka, Japan, June 1996, 11N31
CARTWRIGHT, JHE: Chaotic advection in 3D unsteady incompressible laminar flow, 12A110
CARUTHERS, JE: Green function discretization for numerical solution of the Helmholtz equation, 4A329
CARUTHERS, JM: Thermodynamic constitutive equations for materials with memory on a material time scale, 6A1064
CARVALHO, A: Dynamic response of rectangular plates of composite materials subjected to impact loads, 7A155
CARVALHO, JR, JA: Behavior of solid particles in pulsating flows, 2A227
CARVALHO, MG: New instrument for radiation heat flux measurement: Analysis and parameter selection, 2A1138
- Evaluation of a 3D model for the prediction of heat transfer in power station boilers, 2A1148

- Modeling of soot formation and oxidation in turbulent diffusion flames, 3A1216
- Knowledge-based expert system for fouling assessment of industrial heat exchangers, 6A1144
- Mathematical modeling of NO formation in a power-station boiler, 8A1279

CARVER, D: Earthquake site response in Santa Cruz, California, 11A1385

CASADEI, F: Algorithm for permanent fluid-structure interaction in explicit transient dynamics, 5A231

CASADIO TARABUSI, E: Integral geometry in hyperbolic spaces and electrical impedance tomography, 11A1202

CASALO, F: Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, 11A75

CASAS, JR: Computer aided design of prestressed concrete highway bridges, 12A845

CASATI, G: Proceedings of the conference on Chaos, order and patterns: Aspects of nonlinearity - The "Gran Finale," held at Villa Olmo, Como Italy, September 25-10, 1993, 2T77

CASAVOLA, A: Extensions to generalized LQG and H_∞ multivariable controllers, 8T280

CASDORPH, V: Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349

CASE, ME: Soot mass concentration measurements in diesel engine exhaust using laser-induced incandescence, 12A1330

CASEY, J: Remark on consequences of the work assumption of Naghdi and Trapp for elastic-plastic materials, 5A435

CASH, JR: Block 6(5) and 7(6) explicit Runge-Kutta formulae, 2A34

CASKEY, SJ: Surface faulting of the 1954 Fairview Peak (M_S 7.2) and Dixie Valley (M_S 6.8) earthquakes, central Nevada, 12A1388

CASOLO, F: Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, 11A74

CASOTTO, S: Gravitational perturbation spectrum in linear satellite theory, 1A268
- New method for computing the spectrum of the gravitational perturbations on satellite orbits, 3A231

CASPER, J: Using high-order accurate essentially nonoscillatory schemes for aeroacoustic applications, 7A365

CASS, RJ: Generalized 3D paving: Automated quadrilateral surface mesh generation algorithm, 10A45

CASSEL, KW: Instability in supersonic boundary-layer flow over a compression ramp, 4A1057
- Onset of instability in unsteady boundary-layer separation, 11A978

CASSIDY, CE: Effective weld length for HSS T, Y, and X connections, 2A833

CASTAGNEDE, B: Correlation between tortuosity and transmission coefficient of porous media at high frequency, 1A1375

CASTALDI, M: Chemical structures of fuel-rich, premixed, laminar flames of 1,1-$C_2H_4Cl_2$/CH_4/O_2/Ar, 3A1208

CASTALDI, MJ: Micro-structures of premixed hydrocarbon flames: Methane, 5A1228
- Chemical structures of fuel-rich flames of trans-$C_2H_2Cl_2$-CH_4-Ar-O_2 mixtures, 7A1330

CASTANEDA, PP: Finite deformation of nonlinear composite materials - Part II: Evolution of the microstructure, 7A540
- Finite deformation of nonlinear composite materials - Part I: Instantaneous constitutive relations, 7A539

CASTANO, VM: Effect of dielectric constant of the liquid phase of electrorheological Fluids, 7A1136
- Elastic properties of polymer systems reinforced with short organic fibers, 12A542

CASTELLANI, A: Comparison between earthquake rotation spectra obtained by different experimental sources, 12A1377

CASTELLI, F: Simplified stochastic model for infiltration into a heterogeneous soil forced by random precipitation, 8A1353

CASTILLO, J: Solution adaptive direct variational grids for fluid flow calculations, 11A925

CASTOR, GS: Numerical Green's function approach for BEs applied to fracture mechanics, 2A678

CASTRO, IP: High-Reynolds-number weakly stratified flow past an obstacle, 12A1047

CASTRO, OS: Turbulent expansion flow of low molecular weight shear-thinning solutions, 5A965

CASWELL, B: Report on the IXth International Workshop on Numerical Methods in Non-Newtonian Flows, 8T903

CATALANO, LA: Cell-vertex adaptive Euler method for cascade flows, 4A973
- Critical analysis of multi-dimensional upwinding for the Euler equations, 6A895

CATHERS, B: Superious numerical refraction, 4A278

CATHIGNOL, D: Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, 3A249

CATHONNET, M: Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
- Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, 12A1310

CATIPOVIC, JA: Reduced-complexity spatial and temporal processing of underwater acoustic communication signals, 1A308

CATRAKIS, HJ: Mixing in turbulent jets: Scalar measures and isosurface geometry, 12A1148

CATS, G: Data-parallel numerical methods in a weather forecast model, 6A1295

CATTAFESTA III, LN: Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, 4A1025

CATTON, I: Influence of morphology upon two-temperature statements for convective transport in porous media, 8A1113
- Analysis of fluidelastic instability of air-water mixture, 10A299

CAUDILL JR, LF: Inverse problem in thermal imaging, 11A1091

CAUGHEY, TK: Adaptive stochastic optimization using multiprocessors, 1A63
- Analysis of linear nonconservative vibrations, 5A99
- Neural network approach to detection of changes in structural parameters, 10A399

CAULFIELD, C-CP: Plumes with non-monotonic mixing behavior, 3A953

CAUSON, DM: Positively conservative high-resolution convection schemes for unstructured elements, 11A924

CAUTY, F: Magnetic flow meter measurement of solid propellant pressure-coupled responses using an acoustic analysis, 8T1272

CAVALEIRO MIRANDA, P: Calculation and experimental verification of the infrared transmission coefficient of straight cylindrical metal tubes, 11T1206

CAVALIERE, MA: Three field element via augmented Lagrangian for modeling bulk metal forming processes, 6A33

CAVALLINI, F: Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling, 11A1362
- Representing earthquake intensity-magnitude relationship with a nonlinear function, 11A1349

CAVALLO, A: Atmospheric re-entry control for low lift-drag vehicles, 6T223
- Attitude control for low lift-drag re-entry vehicles, 12T381

CAVALLOTTI, G: Discussion on the design of a hip joint simulator, 10A1464

CAVANAGH, PR: ISB recommendations for standardization in the reporting of kinematic data, 1T1448

CAVE, C: Computational analysis of a wingtip-mounted pusher turboprop, 9T1223

CAVIN, OB: Surface residual stresses in machined austenitic stainless steel, 12A693

CAWLEY, P: Excitation of Lamb waves in pipes using dry-coupled piezoelectric transducers, 12A793

CAYET, S: Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, 1A1128

CAZENAVE, T: Unstable simple modes of the nonlinear string, 11T112

CEBERS, A: Ramified structures of magnetic suspensions, 7A683

CEBON, D: Force control of a semi-active damper, 3A371
- Theoretical analysis of fatigue cracking in flexible pavements, 4A678
- Investigation of anti-lock braking strategies for heavy goods vehicles, 4A850
- Optimal roll control of a single-unit lorry, 7A198
- Model of whole-life flexible pavement performance, 7A798
- Control strategies for semi-active lorry suspensions, 10A213
- Truck suspension design to minimize road damage, 10A216
- Active roll control of articulated vehicles, 12A395

CEBUHAR, WA: Approximate linearization of control systems with discontinuous nonlinearities, 4T341

CECCARELLI, M: Formulation for the workspace boundary of general N-revolute manipulators, 11A383

CECCIO, SL: Velocity field measurements of cavitating flows, 6A995
- Review of electrical impedance techniques for the measurement of multiphase flows, 12A1095

CECCO, VS: Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, 6A700

CECIO, SL: Cavitation and Gas-Liquid Flow in Fluid Machinery Devices - 1995 ASME/JSME Fluids Eng Conf, 2N34

CEDERBAUM, G: Refined version of the finite differences method in the theory of elasticity, 2A406
- Dynamic stability of a column with load-dependent support stiffness, 4T580
- Theory of poroelastic beams with axial diffusion, 4A341
- Influence of large deflections on the dynamic stability of nonlinear viscoelastic plates, 5A537
- Reliability of shells via Koiter formulas, 5A703

CEDERWALL, K: Push-out tests on studs in high strength and normal strength concrete, 6A752

CEDOMIR, M: Comparative analysis of the different methods for speed control of separately excited DC motor, 1A389

CEGLARSKA-STEFANSKA, G: Contribution to the relationship between the methane sorption capacity of the coal and gas pressure, 3A1353
- Porosity of the Polish hard coals, 9A690

CEJP, J: Non-local energetic strength criterion applied to steel elements in combined tension and bending, 11A500

CELATA, GP: Effect of the tube diameter on the critical heat flux in subcooled flow boiling, 8T1134

CELENTANO, D: Coupled thermomechanical model for the solidification of cast metals, 5A1185

CELESTINA, ML: Experimental and computational investigation of the tip clearance flow in a transonic axial compressor rotor, 11A1060

CELI, R: Modeling of flexible rotor blades for helicopter flight dynamics applications, 7A1184
- Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, 9A235

CELIGOJ, CC: Strain-and-displacement-based variational method applied to geometrically nonlinear shells, 12A605

CELIK, A: Transverse vibration of a composite flywheel with optimum design, 5T518

CELIK, I: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Numerical uncertainty in heat conduction calculations for a tube immersed in a fluidized bed, 4A1212
- Calculation of numerical uncertainty using Richardson extrapolation: Application to some simple turbulent flow calculations, 5A974

CELIS, J-P: Laboratory testing of displacement and load induced fretting, 4T844

CELIS, JP: Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
- Calibration procedures for frictional measurements with a lateral force microscope, 10A1001

CELKA, P: Simple way to compute the existence region of 1D chaotic attractors in 2D-maps, 7A115

CELLETTI, A: Normal form for librational curves of the standard map, 1A266

CELLIER, FE: Fuzzy adaptive recurrent counterpropagation neural networks: A tool for efficient implementation of qualitative models of dynamic processes, 5A315
- Modeling of multibody systems with the object-oriented modeling language Dymola, 7T91

CELLIER, L: Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentations, 3A344

CEMBROLA, J: Nonlinear analysis of environmental distortions of continuous wave signals in the ocean, 6A238

CEMPEL, C: Holistic dynamics of systems, 8A96
- Optimization of lifetime of mechanical systems by vibration dampers, 9T238
- Modeling of energy transforming and energy recycling systems, 10A1446

CEN, KEFA: Heat transfer in a pressurized circulating fluidized bed, 11A1328

CENDROWICZ, J: Analysis of working possibilities of a power shovel, 9A166

CENEDESE, A: Recognition of partially overlapped particle images using the Kohonen neural network, 2A1070

CENGEL, YA: Exergy analysis of a solar heating system, 3A1375

CENGIZ DOKMECI, M: Fundamental variational equations of discontinuous thermopiezoelectric fields, 12A637

CENTERS, PW: Effects of lubricant born solid debris in rolling surface contacts, 6T819

CERAVOLO, R: Hierarchical use of neural techniques in structural damage recognition, 7A804

CERCIGNANI, C: Weak solutions of the Boltzmann equation: Equation and energy conservation, 2A917

CERETTI, E: Theoretical and experimental analysis of non-axisymmetrical deep drawing, 6A564
- Formability in extrusion forging: The influence of die geometry and friction conditions, 6A557

CERKVENIK, J: Spinning of fine yarns from sliver, 6T585

CERMELLI, P: Effect of bulk deformation and surface tension on the growth of a coherent inclusion, 6A386

CERNANSKY, NP: 1-pentene oxidation and its interaction with nitric oxide in the low and negative temperature coefficient regions, 9A1327

CERNICA, JN: Geotechnical Engineering: Foundation Design, 4R10
- Geotechnical Engineering: Soil Mechanics, 4R11

CERNYAR, J: Fracture and fatigue crack growth behavior of SiC_w/2124A1 composites, 11A681

CERRI, G: Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284

CERRO, JA: D-box fixture for testing stiffened panels in compression and pressure, 5A735

CERROLAZA, M: Numerical Methods in Engineering Simulation - Proc of 3rd Int Congress on Numer Methods in Eng and Appl Sci (Cimenics '96), Merida, Venezuela, March 1996, 10N30

CERV, J: Rayleigh wave diapersion due to spatial (FEM) discretization of a thin elastic solid having non-curved boundary, 5A179
- Numerical modeling of acoustic emission signal propagation in a thin strip, 6A182
- Wave propagation in a thick cylindrical bar due to longitudinal impact, 7A222

CERVERA, M: Seismic evaluation of concrete dams via continuum damage models, 1A1398

CERVETTO, D: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818

CESAR DE SA, J: Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement, 11A579

CESCOTTO, S: Finite element method for gradient plasticity at large strains, 7A538
- Unified and mixed formulation of the 8-node hexahedral elements by assumed strain method, 8A50

CESNIK, CES: Refined theory of composite beams: The role of short-wavelength extrapolation, 8A480

CETINKUNT, S: CMAC neural network control for high precision motion control in the presence of large friction, 5A340

CHA, DJ: Holographic interferometric tomography for limited data reconstruction, 10A1240

CHA, DK: Measurement of indoor bioaerosol levels by a direct counting method, 10T1458

CHA, DON J: Heat release mechanisms in inhibited laminar counterflow flames, 7A1326

CHA, E: Numerical simulations of slider interaction with multiple asperity using Hertzian contact model, 5A763

CHA, SOYOUNG: Holographic interferometric tomography for limited data reconstruction, 10A1240

CHA, SOYOUNG S: Knowledge-based hybrid expert system for automated interferometric data reduction, 5A343

CHAALLAL, O: Flexural response of concrete beams reinforced with FRP reinforcing bars, 7A937

CHABRAND, P: Modeling drawbeads in sheet metal forming, 4A629

CHACHAD, YR: Manufacturing model for 3D irregular pultruded graphite-epoxy composites, 7A563
- Thermal model for 3D irregular shaped pultruded fiberglass composites, 11A1252

CHACON, R: Homoclinic and heteroclinic chaos in a triple-well oscillator, 2A76

CHADAM, J: Nonlinear stability problem for ferromagnetic fluids in a porous medium, 2A1001
- Reaction infiltration problem - Part I: Existence, uniqueness, regularity, and singular limit in one space dimension, 12T1297

CHADERJIAN, NM: Numerical simulation of forced and free-to-roll delta-wing motions, 7A1157

CHADHA, HS: Network-distributed FE analysis, 12A21

CHAE, SEUNG-KI: Influence of particle refractive index on the lower detection limit of light scattering aerosol counters, 12A1340

CHAFFIN, DJ: Taylor weak statement FEMs for computational fluid dynamics, 1A26

CHAHINE, GL: Bubble dynamics fluid-structure interaction simulation by coupling fluid BEM and structural FEM codes, 5T921

CHAI, GIN-BOAY: Analysis of vane-spring structures, 1A598

CHAI, GUOZHONG: Interactions of coplanar surface semi-elliptical cracks and embedded elliptical cracks in finite thickness plates under uniform tension, 1A835
- Stress intensity factors for internal semi-elliptical surface cracks in pressurized thick-walled cylinders using the hybrid BEM, 4A710
- Stress intensity factors for semi-elliptical surface cracks in plates and cylindrical pressure vessels using the hybrid BEM, 4A711
- Interactions of two coplanar elliptical cracks embedded in finite thickness plates under uniform tension, 6A642
- Analyses on interactions of two identical semi-elliptical surface cracks in the internal surface of a cylindrical pressure vessel, 9A846
- Stress intensity analyses on tension of a finite thickness plate with two coplanar semi-elliptical surface cracks, 12A739

CHAI, JANGBOM: Determination of component motions in a motor-operated valve using housing vibration, 11A866

CHAI, JC: Finite volume radiative heat transfer procedure for irregular geometries, 1A1274
- Monte Carlo solutions for radiative heat transfer in irregular 2D geometries, 3T1129
- Simple approach to non-gray gas modeling, 6A1143

CHAI, S: Application of a delimitative and combinatorial algorithm to the discrete optimum design of structures, 12A809

CHAI, SHAN: Difference quotient algorithm for finding the feasible set of (0,1) programming of optimum design of structures with discrete variables (Chinese), 8A711
- Complex stress intensity factor of multi-material structure with an interface crack (Chinese), 11A665
CHAI, TIAN-YOU: Systematic design of robust controllers for nonlinear uncertain systems, 2T243
CHAI, YH: Analysis of the seismic characteristics of steel-jacketed circular bridge columns, 7A1374
CHAIKA, C: Stress sensitivity of sandstones, 8A543
CHAING, YAN-HUA: Plate-damping measurements in a single reverberation room, 12A317
CHAIT, Y: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
- Single-loop QFT design for robust performance in the presence of non-parametric uncertainties, 5A326
CHAJES, MJ: Dynamic analysis of a ten-story reinforced concrete building using a continuum model, 4A204
- Bond and force transfer of composite material plates bonded to concrete, 9A591
CHAKRABARTI, A: Reflection of water waves by a nearly vertical porous wall, 11A198
CHAKRABARTI, PR: Ultimate stress for unbonded post-tensioning tendons in partially prestressed beams, 5A715
CHAKRABARTI, SK: Pros and cons of transient waves, 5A211
- Rectangular plates resting on tensionless elastic foundation: Some new results, 10A618
CHAKRABARTTY , SK: Computation of transonic flows with shock-induced separation using algebraic turbulence models, 3T914
CHAKRABARTTY, SK: Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, 9A1107
CHAKRABORTY, A: Frequency-time decomposition of seismic data using wavelet-based methods, 3A1290
CHAKRABORTY, G: Unsteady hydromagnetic flow of two immiscible visco-elastic (Walter liquid B') conducting liquids between two inclined parallel plates, 11A1010
CHAKRAVARTHI, V: Gravity interpretation of nonoutcropping sedimentary basins in which the density contrast decreases parabolically with depth, 4A1324
CHAKRAVORTY, D: Free vibration of shallow shells, 2A112
- Finite element free vibration analysis of doubly-curved laminated composite shells, 10A184
CHAKROUN, W: Near field characteristics of circular jets at low Reynolds numbers, 11A972
- Effect of tube-tape clearance on heat transfer for fully-developed turbulent flow in a horizontal isothermal tube, 11A1110
CHALHOUB, NG: Modeling and control of backlash in the drive mechanism of a radially rotating compliant beam, 9A427
CHALLIS, JH: Quantification of the uncertainties in resultant joint moments computed in a dynamic activity, 12A1463
CHALLIS, RE: Study of ultrasonic wave propagation through parallel arrays of immersed tubes, 12A1260
CHALOV, AA: Application of physical methods for monitoring fatigue processes in rotor steels for estimating the residual service life of turbo-generator shaftings, 12T800
CHALVIDAN, V: Stress determination by speckle interferometry (French), 4A774
CHAMANI, MR: Energy loss at drops, 1T973
CHAMBARD, JP: Stress determination by speckle interferometry (French), 4A774
CHAMBAT, M: Interface conditions for a thin film flow past a porous medium, 1A1360
CHAMBERLAIN, PG: Decomposition methods for wave scattering by topography with application to ripple beds, 4A271
CHAMBERS , RS: Rubbery cure shrinkage model for analyzing encapsulated assemblies, 3A449
CHAMBERS, AR: Machinability of light alloy MMCs, 6A573
CHAMBERS, LH: Comparison of coupled radiative flow solutions with Project Fire II flight data, 3A1134
CHAMBRION, PH: Influence of cerium oxide on the formation and oxidation of soot, 7A1318
CHAMEAU, J-LA: Polymer impregnation to assist undisturbed sampling of cohesionless soils, 8A537
CHAMIS, CC: Computational simulation of matrix microslip bands in SiC-Ti-15 composite, 10A820
CHAMKHA, AJ: Compressible dusty-gas boundary-layer flow over a flat surface, 9A1104
CHAMORRO, A: Possibility of equilibrium positions of rapidly-rotating bodies in gravitational fields, 8A213
CHAMPANEY, L: Modular approach to structure assembly computations: Applications to contact problems, 9A939
CHAMPION, M: Premixed combustion in laminar Couette flow, 8A1251
CHAMPOUSSIN, JC: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
CHAMPOUX, Y: Sound field of a baffled piston source covered by a porous medium layer, 1A319
- Experimental investigation of the vibroacoustic behavior of structures for validation purposes, 4A198
- Construction of a simply supported rectangular plate for noise and vibration studies, 7A367
CHAMRA, LM: Advanced micro-fin tubes for evaporation, 8A1144
- Advanced micro-fin tubes for condensation, 8A1141
CHAN , R: Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, 11A1434
CHAN MAN FONG, CF: Stress jump and network model, 8T863
- Comments on the solutions of boundary value problems in non-Newtonian fluid mechanics, 9A1037
CHAN, AMC: Two-phase crossflow and boiling heat transfer in horizontal tube bundles, 8A1132
- Effect of branch orientation on annular two-phase flow in T-junctions, 9A1125
CHAN, B: Predicting 800 to 500 degrees C weld cooling times by using backpropagation neural networks, 10A450
CHAN, C: Fluid substitution: Estimating changes in Vp without knowing V_S, 3A1264
CHAN, CT: Automatic triangular mesh generation scheme for curved surfaces, 9A93
CHAN, CW: Design of compensators for actuator saturation, 2A269
CHAN, CY: Thermal explosion model, 1A1311
- Impulsive effects on global existence of solutions of semilinear heat equations, 9T1263
CHAN, ES: Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, 12A262
CHAN, FHY: Thyroid diagnosis by thermogram sequence analysis, 3A1415
CHAN, H: Closed-loop control of systems over a communications network with queues, 2A276
CHAN, HM: Damage-resistant alumina-based layer composites, 6A659
CHAN, HSY: Perturbation-incremental method for strongly nonlinear oscillators, 8A90
- Estimation of nonlinear damping coefficients from large-amplitude ship rolling motions., 9A961
CHAN, JENQ-TZONG H: Optimal output feedback regulator: A numerical synthesis approach for input-output data, 12A354
CHAN, JS: Mechanistic evaluation of fly ash asphalt concrete mixtures, 7A546
CHAN, KS: Fracture model for hydride-induced embrittlement, 4A756
CHAN, KT: Free vibration of simply-supported beam partially loaded with distributed mass, 10T147
CHAN, MING: Study and measurement of air flow in closed-constrictors of air jet looms, 6A973
CHAN, PH: Spatial phase stepping method of fringe-pattern analysis, 3A732
CHAN, R: Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
CHAN, SH: Transport Phenomena in Combustion - Proc of 8th Int Symp, San Francisco CA, July 1995, 12N46
- Flamelet structure of radiating CH_4: Air Flames, 1A1329
CHAN, SHENG-CHUANG: Numerical analysis of horizontal flame spread over a thin fuel in normal and elevated gravity regime, 5A1248
CHAN, SIU LAI: Large deflection dynamic analysis of space frames, 3A807
- Analysis of concrete placement load effects using influence surfaces, 9A907
- Nonlinear FE analysis of glass panels, 12A573
CHAN, SL: Stability analysis of semirigid steel scaffolding, 4A871
- High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, 7A925
- High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, 7A924
- Refined second-order analysis of frames with members under lateral and axial loads, 10A930
CHAN, TF: Overlapping Schwarz methods on unstructured meshes using non-matching coarse grids, 10A66
CHAN, TS: Forging of compressor blades: Temperature and ram velocity effects, 5A1045
CHAN, WILLIAM: Wingrove parameter: A new turbulence metric, 9A1199
CHAN, WS: Interfacial stress estimation using least-square extrapolation and local stress smoothing in laminated composites, 4A532
CHAN, YH: Asymptotic analysis and effect of reaction order on a reversible gas-solid system fast reaction, 12A1080
CHANA, KS: Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
CHAND, K: Heat transfer in a 3D flow through a porous medium with periodic permeability, 6T1225
CHAND, N: Role of polymeric matrices in improving wear resistance of irradiated FRP composites, 6T801
CHANDA, H: Developments encompassing stress based FE formulations for materially nonlinear static and dynamic problems, 8A31
CHANDA, S: Large deflections of thin elastic plates of arbitrary shape placed on elastic foundation under both uniform load and a concentrated load at the center: A simplified approach, 6A476
CHANDIRAMANI, NK: Flutter of geometrically-imperfect shear-deformable laminated flat panels using nonlinear aerodynamics, 10A313
CHANDLER, AM: Stochastic linearization of inelastic seismic torsional response: Formulation and case studies, 2A1248
- Seismic energy dissipation in torsionally responding building systems, 8A1343
- Evaluation of serviceability limit state seismic torsional provisions of Eurocode 8, 9A937
- Seismic torsional provisions: Influence on element energy dissipation, 10A1440
CHANDLER, GA: Note on withdrawal through a point sink in fluid of finite depth, 11A892
CHANDLER, GM: Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
CHANDLER, HD: Fatigue and ratcheting interactions, 4A676
- Assessment of failure criteria for fiber-reinforced composite laminates, 4A719
- Errors in double-sine series solutions for simply-supported symetrically-laminated plates, 8A488
CHANDLER, PR: Reconfigurable tracking control with saturation, 3T357
CHANDLER-WILDE, SN: Pade approximants for the acoustical characteristics of rigid frame porous media, 1A333
CHANDNA, OP: Oblique flow impinging on a wall with suction or blowing, 9A1070
CHANDRA , P: Self-propulsion of spermatozoa in microcontinua: Effect of transverse wave motion of channel walls, 5A1391
CHANDRA, A: Unified energy approach to a class of micromechanics models for composite materials, 3A508
- Numerical calculation of 2D effective moduli for microcracked solids, 8A388
- Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, 10A51
- Dynamic model for end milling using single point cutting theory, 11A592
CHANDRA, D: Strength enhancement in particulate solids under high loading rates, 5A550
- Rate-sensitive micromechanical damage model for brittle solid, 10A581
CHANDRA, K: Acoustic scattering in 3D fluid media, 5A268
CHANDRA, M: Ultrasonic motor using low-frequency magnetostrictive excitation for continuous and stepwise angular rotation, 1A857
CHANDRA, N: Application of GPS tensors to fiber reinforced composites, 2A448
- Stress analysis of an orthotropic work-hardening cylinder with body force, 3A472
- Global-local analysis of large-scale composite structures using FEMs, 4A811
- Development of generalized plane-strain tensors for the concentric cylinder, 5A407
- Evaluation of interfacial shear properties of metal matrix composites from fiber push-out tests, 6A687
CHANDRA, P: Flow of Eringen fluid (simple microfluid) through an artery with mild stenosis, 5A1387
CHANDRA, R: Natural frequencies of rotating composite beams with tip sweep, 7A184
CHANDRA, S: Impact of n-heptane droplets on a hot surface in low gravity, 3A936
- Boiling of droplets on a hot surface in low gravity, 7A1232
- Comparison of eddy viscosity-transport turbulence models for 3D, shock-separated flowfields, 9A1191
- Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, 12A281
CHANDRAKANTH, S: Exponential ductile continuum damage model for metals, 6A626
CHANDRAN, A: Bone mineral lies mainly outside collagen fibrils: Predictions of a composite model for osteonal bone, 12A1443
CHANDRAN, KB: Cavitation dynamics of Medtronic Hall mechanical heart valve prosthesis: Fluid-squeezing effect, 9A1462
- Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
CHANDRASEKAR, S: Finite element model comparison of ball and roller bullgears, 8A800
CHANDRASEKHARA, MS: Boundary-layer-tripping studies of compressible dynamic stall flow, 6A1017
- Phase-locked high-speed real-time interferometry system for large amplitude unsteady flows, 6A1058
- Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, 12A1169
CHANDRASEKHARAIAH, DS: Uniqueness theorem in the theory of thermoelasticity without energy dissipation, 10A1327
CHANDRASHEKAR, M: Unified approach to modeling photovoltaic powered systems, 3A1385
CHANDRASHEKHARA, K: Static analysis of a long and thick orthotropic circular cylindrical shell of revolution, 1A624
- Nonlinear impact analysis of laminated cylindrical and doubly curved shells, 4A525
- Analytical solutions for bending of clamped layered composite plates using a higher-order theory, 5A509
- Thermally induced vibration suppression of laminated plates with piezoelectric sensors and actuators, 7A139
- Interaction analysis of strip footing resting on a non-homogeneous elastic medium, 11A573
CHANDU, SVL: General purpose procedure for reliability based structural optimization under parametric uncertainties, 3A757
CHANG, A: Effects of heating mode on steady axisymmetric thermocapillary flows in microgravity, 8A1107
CHANG, C: Rheological characterization of Hanford neutralized current acid waste simulant slurries, 12A1011
CHANG, C-M: Stochastic analysis of multiphase flow in porous media - I: Spectral-perturbation approach, 2T1219
- Stochastic analysis of unsaturated transport in soils with fractal log-conductivity distribution, 5A1337
- Exact solution for contaminant transport with nonlinear sorption, 6A1185
CHANG, CHAU-CHIN: Computational methods for studying impact in multibody systems, 1A220
CHANG, CHAU-LYAN: Spatial direct numerical simulation of high-speed boundary-layer flows - Part II: Transition on a cone in Mach 8 flow, 2T945
CHANG, CHENGSONG: Complex model for lightly loaded bearings, 6T1043
CHANG, CHIA-YUAN: Synthesis of optimal H_∞ controllers via H_2-based loop-shaping design, 12T360
- μ Synthesis using linear quadratic Gaussian controllers, 12A361
CHANG, CHIEN-CHENG: Head-on collision of two coaxial vortex rings: Experiment and computation, 1A988
- Analysis of aerodynamic forces on a delta wing, 12A1168
CHANG, CHIH-HAO: Computation of vortex lock-in in the laminar wake of a circular cylinder using unsteady monopole sources, 1A1066
CHANG, CHIN-LONG: Study of flow, heat transfer and particle deposition during the modified chemical vapor deposition process, 7A1228
CHANG, CHING LUNG: Piecewise linear approach to the Stokes equations in 3D, 1A986
- Least-squares FE for second order boundary value problem with optimal rates of convergence, 9T19
CHANG, CHING S: Green's function for elastic medium with general anisotropy, 5A419
CHANG, CHING-MIN: Stochastic analysis of two-phase flow in porous media - II: Comparison between two perturbation and Monte-Carlo results, 3A1257
- Stochastic analysis of two-phase flow in porous media - I: Spectral-perturbation approach, 3A1256
CHANG, CHUNG-MIN: Thermoviscoelastic contact analysis with friction by an incremental thermal relaxation procedure, 12A1290
CHANG, CHUNG-SHIN: Prediction of the cutting forces for chamfered main cutting edge tools, 1A726
CHANG, CHUNGCHU: Boundary element method for 2D linear elastic fracture analysis, 8A679
CHANG, CI: Structural Integrity in Aging Aircraft, AD-Vol 47 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N20
CHANG, CK: Characterization of piezo-film sensors for direct vibration and impact measurements, 2A680
CHANG, CL: Mass conservative least-squares FEM for the Stokes problem, 5A14
- Least-squares FEM for incompressible flow in stress-velocity-pressure version, 5A891
CHANG, CO: Dynamics and stability of a freely precessing spacecraft containing a nutation damper, 8A235
- Modal precession of a rotating hemispherical shell, 11A123
CHANG, CS: Kinematic and static hypotheses for constitutive modeling of granulates considering particle rotation, 9A5
CHANG, CT: Overview and applications of the reproducing Kernel Particle methods, 9A22
CHANG, D: Free vibrations of a complex Euler-Bernoulli beam, 8A108
CHANG, DAQING: Influence of an off-set payload on a flexible manipulator, 8A352
CHANG, DER-FORM: Lubrication of strip rolling in the low-speed mixed regime, 8A1039
CHANG, EJ: Unsteady flow about a sphere at low to moderate Reynolds number - Part 2: Accelerated motion, 4A963
- Interactions of particles and microbubbles with turbulence, 10A1122
- Simulations of particle dynamics in a confined shear flow, 11A934
CHANG, FENG CHENG: Quick evaluation of determinants, 7A78

CHANG, FU-KUO: Composite panels containing multiple through-the-width delaminations and subjected to compression - Part I: Analysis, 1A808
- Composite panels containing multiple through-the-width delaminations and subjected to compression - Part II: Experiments and verification, 1A809
- Identifying delamination in composite beams using built-in piezoelectrics - Part I: Experiments and analysis, 3A669
- Identifying delamination in composite beams using built-in piezoelectrics - Part II: An identification method, 3A670
- Identification of impact force and location using distributed sensors, 6A192
CHANG, HAI: Trajectory preshaping for of high-speed articulated systems, 5A330
CHANG, HSIAO TZU: Application of flux-vector-splitting scheme to a dilute gas-particle JPL nozzle flow, 11A931
CHANG, HT: Geometric stiffness matrices in flexible multibody dynamics, 5A76
CHANG, HUEI-WEN: List of hodograph transformations exactly linearizable systems, 10A109
CHANG, I-SHIH: Titan IV motor failure and redesign analysis, 1A1346
- Investigation of space launch vehicle catastrophic failures, 10A948
CHANG, J-L: Investigation of hydraulic aperture at surface-exposed rock fractures in situ, 12T668
CHANG, JENG-SHIAN: Natural frequencies and critical velocities of fixed-fixed laminated circular cylindrical shells conveying fluids, 2A193
- Thermoelastic properties of short-coated fiber composites: Effects of length and orientation distributions, 7A1293
CHANG, JH: Evaluation of energy release rate for a planar crack in heterogeneous media, 8A680
CHANG, JYH-CHENG: Validity of droplet ignition criteria derived assuming gas-phase quasisteadiness, 6A1194
CHANG, K-C: Modification of the k-ε turbulence model for swirling recirculating flow in a pipe expansion, 9A1145
CHANG, KC: Seismic behavior of reinforced concrete frame with added viscoelastic dampers, 1A1397
- Seismic behavior of steel frame with added viscoelastic dampers, 2A1245
- Full-scale viscoelastically damped steel frame, 2A1254
- Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, 5A969
- Inelastic buckling of tapered members with accumulated strain, 8A498
CHANG, KEH-CHIN: Theoretical investigation of transient droplet combustion by considering flame radiation, 1A1330
CHANG, KJ: Behavior and performance of adsorptive natural gas storage cylinders during discharge, 8A1375
CHANG, KUAN-YUAN: Practial estimation of two-way slab deflections, 7A940
CHANG, KUAN-YUNG: Deflection control of two-way reinforced concrete slabs, 7A931
CHANG, KUANG-HUA: Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723
CHANG, KUN-RONG: Near-optimal low-thrust lunar trajectories, 8T236
- Electric-propulsion spacecraft optimization for lunar missions, 10A1405
CHANG, L: Deterministic model for line-contact partial elasto-hydrodynamic lubrication, 2T1056
- Efficient calculation of the load and coefficient of restitution of impact between two elastic bodies with a liquid lubricant, 12A236
CHANG, LE: Delamination fracture criteria for composite laminates, 4A727
CHANG, LIANG-WEY: Dynamics of a versatile sliding control, 3A316
CHANG, LING-CHEN: Woven glass-epoxy laminates subject to projectile impact, 1A219
CHANG, MING-WENG: Vibration suppression in a flexible structure based on fiber optics Michelson interferometric sensor, 9A176
CHANG, MOU-HSIUNG: Large deviation for Navier-Stokes equations with small stochastic perturbation, 8A914
CHANG, PAO-LONG: Developing key components and products in Taiwan, 8T374
CHANG, PEI-MING: Evaluation of several controller synthesis methodologies using a rotating flexible beam as a test bed, 5A331
CHANG, RAY-YU: Head-on collision of two coaxial vortex rings: Experiment and computation, 1A988
CHANG, RR: Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, 4A509
CHANG, S-C: New flux-conserving Newton scheme for the Navier-Stokes equations, 9T1087
CHANG, SD: Analysis of the power cycle utilizing the cold energy of LNG, 4A1359
CHANG, SERNSHEN: Active noise control of enclosed harmonic fields by using BEM-based optimization techniques, 12A292
CHANG, SHIUH-MING: Numerical simulation for conjugate problem of natural convection on both sides of a vertical wall, 4A1149
CHANG, SUNG-PIL: Spatial stability analysis of thin-walled space frames, 7A649
CHANG, SW: Practical design of an airship, 5A737
CHANG, T: Physical aging behavior of high-performance composites, 3A685
CHANG, T-P: Dynamic FE analysis of a nonlinear beam subjected to a moving load, 9A566
- Nonlinear dynamic response of a nonuniform orthotropic circular plate under random excitation, 11A115
CHANG, TAUNG-SEA PETER: Friction characteristics of carbon versus silicon carbide under stepwise loading conditions, 8A791
CHANG, TYF: Control of pressure oscillation in bilinear-displacement constant-pressure element, 5A23
CHANG, WEI-SHENG: Robust H ∞ model reference tracking design for non-holonomic mechanical control systems, 8A288
CHANG, WEN-DONG: Euler-Poisson equations and existence of quasi-periodic motions of heavy tops, 9A146
CHANG, WEN-HUA: Synchronization of twin-gyro precession under cross-coupled adaptive feedforward control, 11A334
CHANG, WEN-JENG: Transient natural convection of water near its density extremum in a rectangular cavity filled with porous medium, 4A1172
- Mixed convection in a vertical tube partially filled with porous medium, 5A1153
- Mixed convection in a vertical parallel-plate channel partially filled with porous media of high permeability, 7A1230
- Hot-block elevation effect on mixed convection in a parallel-plate channel, 8A1092
- Natural convection for the melting of ice in porous media in a rectangular enclosure, 11A1155
- Numerical and experimental studies of 3D plate-fin and tube heat exchangers, 12A1259
CHANG, WEN-JER: Covariance controller design incorporating optimal estimation for nonlinear stochastic systems, 12A373
CHANG, WEN-LUNG: Mixed convection in a vertical tube partially filled with porous medium, 5A1153
- Mixed convection in a vertical parallel-plate channel partially filled with porous media of high permeability, 7A1230
CHANG, WEN-TYZH: Head-on collision of two coaxial vortex rings: Experiment and computation, 1A988
CHANG, WJ: Impact analysis of shear deformable laminated composite plates, 5A472
CHANG, WR: Acoustic pulse propagation in a fluctuating ocean with range-dependent sound-speed profile, 9A349
CHANG, WS: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5, 3N36
CHANG, YANG: Green's function for elastic medium with general anisotropy, 5A419
CHANG, YAO-CHANG: Vibrations of a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, 3A138
- Scattering on a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, 3A136
CHANG, YAU-SHENG: Vibration suppression in a flexible structure based on fiber optics Michelson interferometric sensor, 9A176
CHANG, YC: Poynting theorem of acoustic wave propagating in an inhomogeneous moving medium, 1A202
CHANG, YIH-FANG: Robust performance variable structure PI-P control design for high precise positioning control systems, 2A347
CHANG, YOON-SUK: Prediction of fracture resistance curves from tensile data for carbon steel piping materials, 12A747
CHANG, YU-JUEI: Air-side performance of brazed aluminum heat exchangers, 8A1188
CHANG, YUNG-LIU: Representation and matching of feature patterns for robot operation monitoring, 4A408
CHANG, ZHIJUN: Direct contour mapping system with pattern recognizing faculties (Japanese), 5A341
CHANNON, PH: Gravity compensation technique for an n-legged robot, 8A361
- Optimal control of an n-legged robot, 9A451
- Variational approach to the optimization of gait for a bipedal robot, 11A378
CHANTANT, M: Superficial heat flux and temperature measurement on a wall (French), 11A1189
CHAO , XIAO-BO: Diffusion properties of oiled wastewater in open channel, 4A917
CHAO, BH: Stagnation point flow of a chemically reactive fluid in a catalytic porous bed, 12A1348
CHAO, C-H: Effectiveness of active tuned mass damper and seismic isolation on vibration control of multi-story building, 12A1406
CHAO, CH: Investigation of non-Darcian forced convection in an asymmetrically heated sintered porous channel, 3A1073
CHAO, CHIEN-HSIANG: Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, 9A398
CHAO, CK: Solutions of thermoelastic crack problems in bonded dissimilar media or half-plane medium, 2A657
- Antiplane interaction of an anisotropic elliptic inclusion with an arbitrarily-oriented crack, 10A806
CHAO, CP: Thermoelastic constitutive modeling of irradiated polymer composites with matrix property change and fiber-matrix debonding, 1A548
CHAO, DC: Ablation analysis of the shuttle orbiter oxidation protected reinforced carbon-carbon, 1A1124
CHAO, EYS: Comparison of intersegmental joint dynamics to isokinetic dynamometer measurements, 1A1443
- Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, 7T1420
- New method for theoretical analysis of static indentation test, 8A1439
CHAO, KK: Effects of lubricant born solid debris in rolling surface contacts, 6T819
CHAO, LU-PING: Optimal design and sensitivity analysis of flexible robotic manipulators fabricated from advanced composite materials, 2A323
- Multiobjective optimization design methodology for incorporating manufacturing uncertainties in advanced composite structures, 10A505
CHAO, SH: Dynamics of flight vehicle control surfaces with inertia coupling, 11A791
CHAO, TN: Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, 4A509
CHAO, YUH J: Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, 2A573
CHAPELLAT, H: Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series, 12R12
CHAPETTI, MD: Importance of toe irregularity for fatigue resistance of automatic welds, 6A617
CHAPGAON, AN: Fertilizer solar ponds as a clean source of energy: Some observations from small scale experiments, 5A1352
CHAPLIN, CP: Collapse of composite cylindrical panels with various thickness using FE analysis, 12A624
CHAPLIN, CR: Failure mechanisms in wire ropes, 2A459
CHAPLIN, JR: Loading on a vertical cylinder in multidirectional waves, 5A871
CHAPLIN, PM: Force control in electrohydraulic active suspensions, 8A328
CHAPMAN , SJ: Motion of vortices in type II superconductors, 2A509
CHAPMAN, C: Effect of assumed tow architecture on predicted moduli and stresses in plain weave composites, 4A492
CHAPMAN, CD: Genetic algorithm-based structural topology design with compliance and topology simplification considerations, 8A833
CHAPMAN, CJ: Sound radiation from a cylindrical duct - Part 2: Source modeling, nil-shielding directions, and the open-to-ducted transfer function, 11A246
CHAPMAN, G: Model studies of Leukocyte-Endothelium blood interactions - I: The fluid flow drag force on the adherent leukocyte, 10T1480
CHAPMAN, JC: Design model for intermediate web stiffeners, 9A600
CHAPMAN, K: Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284
CHAPMAN, NR: Matched-field source localization in a range-dependent environment, 6A265
CHAPMAN, SJ: Mean-field model of superconducting vortices in 3D, 2A508
- Superheating field of type II superconductors, 2A510
- Asymptotic analysis of the Ginzburg-Landau model of superconductivity: Reduction to a free boundary model, 4A595
- Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, 5A887
- Mean-field model of superconducting vortices, 11A559
- Model for variable thickness superconducting thin films, 12A641
CHAPMAN, TC: Blast wave simulation using AUTODYN2D: A parametric study, 2A189
CHAPOVSKA, RB: Fast-moving heated half-cylinder over the surface of a half-space, 12A1274
- Investigation of friction-induced thermal processes for some non-Hertzian fast-moving plane contacts, 12A892
CHAPPELL, AR: Batch simulation environment for integrated batch and piloted air combat analysis, 5A999
CHAPRA, SC: Determination of reaeration coefficients: Whole-lake approach, 9T1428
CHAPUIS, R: Real-time vehicle trajectory supervision on the highway, 4A377
CHAR, MING-I: Effect on interfacial deformation on the onset of convective instability in a doubly diffusive fluid layer, 4A1246
CHARACH, C: Thermodynamic design of a phase change thermal storage module, 11A1241
CHARAFI, A: h-Hierarchical functions for 2D and 3D BEM, 9A102
CHARALAMBAKIS, N: Development of strain pattern due to initial non-uniformities, 9A475
CHARALAMBIDES, PG: Near-tip dual-length scale mechanics of mode I cracking in laminate brittle matrix composites, 1A817
CHARALAMBOPOULOS, A: Frechet differentiability of boundary integral operators in the inverse elastic scattering problem, 4A253
CHARAO, RC: Scattering frequencies and a class of perturbed systems of elastic waves, 11A179
CHARARA, M: Boundary conditions and the source term for one-way acoustic depth extrapolation, 6A1245
CHARETTE, A: Three-dimensional modeling of transient heat transfer in a soaking pit, 4A1216
CHARGIN, M: Approximation of frequency responses based on Larsaen's method, 2A149
- Modification to the sensitivity analysis algorithm for known target displacements, 8A716
CHARKI, Z: Existence and uniqueness of solutions for the steady deep Benard convection problem, 6A1088
CHARKOV, VD: Statistical simulation of the life of lumber straddle carriers with allowance for the mode of operation, 12T988
CHARLES, BD: Consistent approach for modeling the aerodynamics of self-generated rotor blade-vortex interactions, 10A1218
CHARLES, ID: Application of a kinematic hardening model for assessing ratchetting in pressurized pipes, 11A451
CHARLES, JA: Depth of influence of loaded areas, 9A676
CHARLES, P: Acoustic saturation of the critical speeding up, 6A928
CHARLET, G: Slow calorimetry and heat of fusion of poly(4-methyl pentene-1), 11A1093
CHARLEZ, P: Mechanics of Porous Media, 12N26
CHARLTON, SJ: Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
CHARLTON, TM: Menabrea and Levy and the principle of least work, 2A720
CHARNLEY, T: Tuning of church and carillon bells, 2A225
CHARNOTSKII, MI: Tilt-invariant theory of rough-surface scattering: I, 3A189
CHARRIER, J: Use of Eddy currents to detect the onset of damage in rotating beam fatigue tests, 10A869
CHARRU, F: Experimental study of interfacial long waves in a two-layer shear flow, 4A276
CHARTIER, P: Parallel general linear methods for stiff oridnary differential and differential algebraic equations, 2A40
CHASE, M: Flaw detection in d_{33} mode multilayer ceramic actuators using impedance-frequency scans, 11A709
CHASE, TR: A priori geometric design of an interference free complex planar mechanism, 9A1024
- Generating the swept area of a body undergoing planar motion, 12A88
CHASHECHKIN, YD: Reflection of beams of internal gravity waves at a flat rigid surface, 7A272
CHASSIAKOS, AG: Modeling unknown structural systems through the use of neural networks, 7A1384
- Neural network approach to detection of changes in structural parameters, 10A399
CHATE, A: Optimal design of sandwich and laminated composite plates based on the planning of experiments, 2A729
- Analysis of free damped vibrations of laminated composite cylindrical shells, 7A170
CHATO, JC: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
CHATTERJEE, A: Use of a wake-integral method for computational drag, 6T1018
- Computational analysis of a wingtip-mounted pusher turboprop, 9T1223
CHATTERJEE, S: Impact dampers for nonlinear vibrating systems, 4A217
- Periodic response of piecewise nonlinear oscillators under harmonic excitation, 9A161
- Bifurcations and chaos in autonomous self-excited oscillators with impact damping, 10A96
- Impact dampers for controling self-excited oscillation, 12A208
CHATTOPADHYAY, A: Performance based optimization of high speed prop-rotors, 1A1135
- Modeling of delamination buckling in composite cylindrical shells with a new higher-order theory, 1A666
- Decomposition-based optimization procedure for high-speed prop-rotors using composite tailoring, 2A1047
- Coupled controls-structures optimization procedure for the design of rotating composite box beams with piezoelectric actuators, 2A261
- Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, 6A508
- Multiple design point optimization of high-speed proprotors, 11T1027
- Exact elasticity solution for buckling of composite laminates, 11A429

- Delamination buckling and postbuckling of composite cylindrical shells, 11A654
CHATTOPADHYAY, AB: Effect of cryogenic cooling on grinding forces, 3A627
- Determination and control of grinding zone temperature under cryogenic cooling, 7A750
- Evaluation of wear of turning carbide inserts using neural networks, 12A904
CHATTOPADHYAY, H: Numerical visualization of convective heat transfer from a sphere-with and without radial mass efflux, 3A1021
CHATTOPADHYAY, L: Size effect on crack-tip creep, 6A644
- K-calibration and standardization of ceramic specimen, 10A837
- CLIP: Computer software for creep life prediction of engineering materials, 10A530
CHATTOPADHYAY, NC: Study of the thermoelastic interactions in an elastic half space subjected to a ramp-type heating: A state-space approach, 10A1330
CHATTOPADHYAY, PK: Modeling and simulation of PV-powered intermittent load systems by bond graph technique, 4A1357
CHATTOPADHYAY, S: K-calibration and standardization of ceramic specimen, 10A837
CHATTOT, J-J: Application of a finite difference-finite volume algorithm to solve Maxwell's equations in the time domain, 9T87
CHATURVEDI, S: Finite element approach to global-local modeling in composite laminate analysis, 2A449
CHATURVEDI, SK: Thermoelastic constitutive modeling of irradiated polymer composites with matrix property change and fiber-matrix debonding, 1A548
- Mode I fracture modeling of elastomer-toughened polymers, 12A769
CHATWIN, CR: Computational Moving Boundary Problems, 1R34
CHATWIN, PC: Fluctuations in dense gas concentrations measured in a wind-tunnel, 4A1360
- Dosages from instantaneous releases of dense gases in wind tunnels and into a neutrally stable atmosphere, 12A1438
CHATZANDROULIS, S: Miniature self-aligned pressure sensing element, 10A463
CHAU, FS: Shearographic and holographic assessment of defective laminates with bond-lines of different elastisities, 5A656
- Bonded boron-epoxy composite repair and reinforcement of cracked aluminum structures, 11A672
CHAU, KT: Landslides modeled as bifurcations of creeping slopes with nonlinear friction law, 1A705
CHAU, KW: Expert system for flow routing in a river network, 2A863
- Numerical solution of two-layer, 2D tidal flow in a boundary-fitted orthogonal curvilinear co-ordinate system, 4A1343
CHAUDHARI, SK: Absorption heat pump with the TFE-TEGDME and TFE-H_2O-TEGDME systems, 7A1270
CHAUDHARY, MA: Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part I: Equal diffusivities, 3A944
- Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part II: Different diffusivities for reactant and autocatalyst, 3A945
- Natural convection from a horizontal permeable surface in a porous medium: Numerical and asymptotic solutions, 9A1371
CHAUDHRY, MA: Heat conduction in a semi-infinite solid subject to steady and non-steady periodic-type surface heat fluxes, 2A1118
- Temperature solutions due to time-dependent moving-line-heat sources, 8A1161
- Heat conduction in a semi-infinite solid due to time-dependent laser source, 12A1240
CHAUDHRY, Z: Engineering feasibility of induced strain actuators for rotor blade active vibration control, 3A109
- Impedance-based modeling of actuators bonded to shell structures, 7A423
- Energy-based comparison of solid-state induced-strain actuators, 9T447
CHAUDHURI , RA: Fourier solution to higher order theory based laminated shell boundary-value problem, 2A444
CHAUDHURI, RA: Analytical-experimental evaluation of hybrid commingled carbon-glass-epoxy thick-section composites under compression, 2A416
- Full and von Karman geometrically nonlinear analyses of laminated cylindrical panels, 4A547
- Stress singularity due to kink band weakening a unidirectional composite under compression, 11A480
CHAUG, YI-SHUNG: Study of wear resistance of a new brush-plated alloy Ni-Fe-W-S, 10A974
CHAUHAN, PM: Economic design of a rock bed storage device for storing solar thermal energy, 1A1427
- Performance and cost analysis of two-pass solar air heaters, 2A1274
- Comparative performance of coriander dryer coupled to solar air heater and solar air-heater-cum-rockbed storage, 10A1323
CHAUSSE, F: Real-time vehicle trajectory supervision on the highway, 4A377
CHAUX, A: Flow measurements in an aortocoronary bypass graft casting, 11A1471
CHAVALI, A: Attractor embedding in metal cutting, 1T717
- Phase coupling in orthogonal cutting, 10T707
CHAVANIS, PH: Classification of self-organized vortices in 2D turbulence: The case of a bounded domain, 11A999
CHAVENT, G: Multiscale seismic waveform inversion, 1A1384
CHAVEPEYER, G: Laminar thermal convection in a vertical slot, 3A1039
- Effect of the separation ratio on the transition between traveling waves and steady convection in the two-component Rayleigh-Benard problem, 10A1073
CHAVEZ-GARCIA, FJ: Surface-wave dispersion analysis in Mexico City, 2A1242
CHAVIAROPOULOS, P: Design method for stator cascades with stream surface of revolution using natural coordinates, 8A958
- Arbitrary blade section design based on viscous considerations: Blade optimization, 12A1180
CHAWDA, A: Stability of viscoelastic flow between eccentric rotating cylinders, 12A1145
CHAWLA, KK: Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA, 7N12
CHBAT, NW: Powell's method applied to learning neural control of three unknown dynamic systems, 2A289
CHE, XL: Application of the Haskind-Hanaoka relations to hydroelasticity problems, 2A190
CHEAH, CC: Learning control for a class of nonlinear differential-algebraic systems with application to constrained robots, 7A445
CHEATHAM, S: Near-limit oscillations of spherical diffusion flames, 12A1305
CHEBELA, Z: Optimization of novel mechanisms for driving active tools of agricultural tilling machines, 7T1018
CHEDRIK, VV: Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, 10T1195
CHEEKE, D: Behavior of extensional modes in a thin rod immersed in a viscous medium, 7A286
CHEER, AY: Simulations of unsteady compressible fluid motion by an inter active cored particle method, 2A913
CHEHIMI, C: Use of notch stress intensity factor as a fatigue crack initiation parameter, 2A564
CHEHROUDI, B: Structure of a swirl-stabilized spray flame relevant to gas turbine and furnaces, 4A1252
CHEIKH, L: Nonlinear stability of a defective cylindrical shell, 8A499
CHEIN, HUNGMIN: High-output, size-selective aerosol generator, 4A1287
CHEKHOVICH, VY: Natural circulation in circular channels, 1A1234
CHEKINA, OG: Complete contact of rough surfaces, 6A781
CHELIKANI, S: Hydrodynamic machining of fiber-reinforced composites, 11A594
CHELL, GG: Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, 10A825
CHELLABOINA, V-S: Frequency domain performance bounds for uncertain positive real systems, 8T301
CHELLABOINA, VS: Real-μ bounds based on fixed shapes in the Nyquist plane: Parabolas, hyperbolas, cissoids, nephroids and octomorphs, 7T378
CHELLIAH, HK: Influence of heterogeneous kinetics and thermal radiation on the oxidation of graphite particles, 7A1327
- Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, 9A1331
CHELNOKOV, YN: Quarternion laws of kinematic attitude control of a rigid body by the angular velocity, 10A72
CHEN , CAIKAN: Partially continuous composite grid generation for solution of partial differential equations (Chinese), 9T45
CHEN , DAPENG: Finite element analysis of solid-fluid interaction considering the geometric nonlinearity of the solid (Chinese), 9A35
CHEN , DIANYUN: Stiffness-averaging method for calculating the fundamental frequency of finite amplitude nonlinear vibration of a circular plate (Chinese), 9T579
CHEN , GUOQING: Block pivot methods for solving frictional contact problems, 3A836
CHEN , HAORAN: Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), 9A533
- Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), 9A636
- Prediction of overall average mechanical properties for multi-phase composites with imperfect interphase (Chinese), 9A555
CHEN , HONG-JI: Analysis and optimum design of composite grid structures, 10A592
CHEN , HUAIHAI: Dynamic design of a flutter model of airfoil (Chinese), 3A222
CHEN , JIANYUN: Explicit geometric stiffness matrix of quasi-conforming trapezoidal element and buckling analysis (Chinese), 9A642
CHEN , KUO-TSAI: Adaptive active control of sound transmission through an aperture at low frequencies, 4A322
CHEN , PING: Fabrication of metallic fibers of advanced industrial materials by rotary cutting (Japanese), 3A620
CHEN , QINGJUN: Response of single piles embedded layered halfspaces to arbitrary incident seismic waves (Chinese), 9A1385
CHEN , SHAOHUA: Limited-view optical tomography technique and its application to temperature field measurement in flow of hot air, 3A1016
CHEN , SHILU: Variable structure control of aircraft for atmospheric disturbance, 7A392
CHEN , SUHUAN: Reliability analysis of single-dof nonlinear systems with random parameters (Chinese), 6A105
CHEN , WANJI: Block pivot methods for solving frictional contact problems, 3A836
- Geometrically nonlinear generalized hybrid element and refined element method of non-conforming modes, 3A36
- Refined direct stiffness method and the nonconforming models (Chinese), 9T68
- Refined element method and membrane locking for geometric nonlinear analysis of thin plates (Chinese), 9A81
- Implementation of updating element library of structural analysis program system (Chinese), 9T32
CHEN , Y: Monitoring crack growth through change of modal parameters, 2A708
CHEN , YAOSONG: Numerical study of vortex reconnection for two anti-parallel vortex tubes, 3A895
CHEN , YH: Attractor embedding in metal cutting, 1T717
CHEN , YONG-LIN: Iterative methods for computing the generalized inverse $A_{T,S}^{(2)}$ of a matrix A, 7T76
CHEN , YUSHU: Hopf bifurcation of mechanically and electrically coupled nonlinear dynamical systems (Chinese), 3A100
- Global bifurcations and chaos in a Van der Pol-Duffing-Mathieu system with three-well potential oscillator, 10A103
CHEN, A: Velocity characteristics of steady flow through a straight generic inlet port, 2A960
CHEN, BANG-FUH: Nonlinear hydrodynamic effects on concrete dam, 7A196
CHEN, BINGCONG: Abrasive wear behavior of bamboo, 4T830
CHEN, BINGKUI: Notes on FEM for dynamic contact-impact problems (Chinese), 11T22
CHEN, BINGSEN: Quantitative description of temperature- and strain rate-dependence of yield strength of structural steels, 8A431
CHEN, BOR-SEN: Adaptive control of linear unstructured time-varying systems, 2A245
- Robust performance variable structure PI-P control design for high precise positioning control systems, 2A347
- Robust H ∞ model reference tracking design for non-holonomic mechanical control systems, 8A288
CHEN, C-S: Large amplitude vibration of plates according to a higher order deformation theory, 6A136
- Modification of the k-ϵ turbulence model for swirling recirculating flow in a pipe expansion, 9A1145
CHEN, CC: Effects of interaction between Marangoni and double-diffusive instabilities, 4A964
CHEN, CF: Effects of interaction between Marangoni and double-diffusive instabilities, 4A964
- Instability of convection and heat transfer of high Prandtl number fluids in a vertical slot, 11A1128
- Natural convection of high Prandtl number fluids with variable viscosity in a vertical slot, 11A1124
CHEN, CHA'O-KUANG: Nonlinear stability analysis of magnetohydrodynamic condensate film flow down a vertical plate with constant heat flux, 5A982
- Non-Darcy mixed convection along nonisothermal vertical surfaces in porous media, 7A1363
- Aerodynamic characteristics of a 2D airfoil with ground effect, 9A1213
- Natural convection of micropolar fluids in a rectangular enclosure, 9A1255
- Natural convection of non-Newtonian fluids along a wavy vertical plate including the magnetic field effect, 11A1144
- Weakly nonlinear stability analysis of condensate film flow down a vertical cylinder, 11A1176
CHEN, CHANG-NEW: Plastic buckling analysis by the continuum FE modeling, 1A677
- Finite element study on Shanley's plastic buckling theory of short columns, 9A643
- Finite element study on bifurcation and limit point buckling of elastic-plastic arches, 11A545
CHEN, CHANG-QING: Finite element approach of vibration control using self-sensing piezoelectric actuators, 12A138
CHEN, CHAO-HSUN: Secant moduli of a glass bead-reinforced silicone rubber specimen, 8A470
- Effective elastic moduli of misoriented short-fiber composites, 11A466
CHEN, CHAO-YI: Evaluation of algebraic stress modeling in free-surface jet flows, 9A1194
CHEN, CHAOQIANG: Elastoplastic dynamic buckling and postbuckling of square plates under solid-fluid slamming, 1A673
CHEN, CHENG-CHIEH: Parametric identification of truss structures by using transient response, 9A207
CHEN, CHENG-JEN: Application of the Taylor differential transformation method to viscous damped vibration of hard and soft spring system, 9A175
CHEN, CHENG-LUNG: Free-surface stability criterion as affected by velocity distribution, 2T977
CHEN, CHENG-LUNG: Granular-flow rheology: Role of shear-rate number in transition regime, 10A1044
CHEN, CHIEN-HSIN: Periodic heat transfer in a vertical plate fin cooled by a forced convective flow, 4A1221
- Non-Darcy mixed convection along nonisothermal vertical surfaces in porous media, 7A1363
CHEN, CHIHTUNG: Effect of cross-links on the quarter-staggered molecular structure of fiber-forming collagen: A FE analysis, 1A1452
CHEN, CHIN-JUNG: Continuum approach for second-order shape design sensitivity of elastic solids with loaded boundaries, 1A868
- Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723
CHEN, CHING-WEN: Three-dimensional fluid flow model for puddle formation in the single-roll rapid solidification process, 4A652
CHEN, CHIUN-HSUN: Numerical analysis of horizontal flame spread over a thin fuel in normal and elevated gravity regime, 5A1248
CHEN, CHIUN-TSAN: Stress analysis of anisotropic elastic V-notched bodies, 11A430
CHEN, CHUNG-WEN: Identification of linear stochastic systems through projection filters, 1T370
- Identification of stochastic system and controller via projection filters, 10A397
CHEN, CR: Vertically oscillating plate disturbing the development of a boundary layer, 2A949
CHEN, CS: Method of fundamental solutions for nonlinear thermal explosions, 1A282
- Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, 5A969
CHEN, CT: Wear behavior of laser-clad stellite alloy 6, 10A976
CHEN, CW: Application of single-mode optical fiber sensors in structural vibration suppression, 9A174
CHEN, CY: Influence of layer thickness on the stress intensity factor of a crack lying in an elastic (viscoelastic) layer embedded in a different elastic (viscoelastic) medium: Mode III analysis, 11A663
CHEN, D: Large scale planar laser induced fluorescence in turbulent density-stratified flows, 3A952
- Nonlinear analysis of prestretched circular membrane and a modified iteration technique, 4A548
- Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
CHEN, D-H: Stress-intensity factors for an internal semi-elliptical surface crack in cylindrical pressure vessels, 5A625
- Logarithmic singular stress field in a semi-infinite plate consisting of two edge-bonded wedges subjected to surface tractions, 12A489
CHEN, DA-PENG: Transient analysis of artificial mechanical valve: Blood interaction, 1A1456
CHEN, DA-REN: Optimization of pleated filter designs using a FE numerical model, 4A1018
CHEN, DAI-HENG: Antiplane strain problem of diamond inclusion, 2A365
- Point force and an edge dislocation in an elliptical inclusion embedded in an infinite medium, 2A368
- Efficient and accurate determination of mode I type 3D surface crack by measuring strain around the crack on the idea of the body force method, 6A691
CHEN, DAPENG: Error estimate of h-convergence in quadrilateral elements, 8A41
- Comparative study on the h-convergence of 4-node and 8-node quadrilateral elements, 9A50
CHEN, DEGANG: Stable inversion of nonlinear non-minimum phase systems, 11A303
CHEN, DELIANG: Stability of the thermohaline circulation in a simple ocupled model, 12A1412
CHEN, DI-GONG: Effects of partial-grooving on the performance of spiral groove bearings: Analysis using a perturbation method, 10T1009
CHEN, DJ: Interfacial stress estimation using least-square extrapolation and local stress smoothing in laminated composites, 4A532
CHEN, DL: Experimental K-calibration for corner cracks under bending loading, 6A640
- Model for crack closure, 8A610
CHEN, E: Hartmann wave front sensor studies of dynamic organized structure in flowfields, 4A1131
CHEN, EJ: Performance of ultrasonic speckle tracking in various tissues, 1A1464
CHEN, F: Effect of support matrix on interfacial shear strength determination by the bimatrix fragmentation technique, 12A540

- Effect of transpiration cooling on nozzle heat transfer, 12T1126
CHEN, FC: Finite volume method for solute segregation in directional solidification and comparison with a FEM, 12A1245
CHEN, FUH-KUO: Deformation analysis of simple-shear sheet specimens, 5A18
- Analysis of die designs for the stamping of an automobile rear floor panel, 7A728
CHEN, GANG: Piston assembly design for improved thermal-tribological performance, 8A822
CHEN, GE-TZUNG: Simple FE analysis of axisymmetric vibration of annular and circular plates, 1A154
- Geometrically nonlinear axisymmetric vibrations of polar orthotropic circular plates, 6A135
CHEN, GENDA: Maximum structural response using convex models, 10A129
CHEN, GENMENG: Comparison of 2D numerical viscoelastic waveform modeling with ultrasonic physical modeling, 11A1369
CHEN, GOONG: Boundary element monotone iteration scheme for semilinear elliptic partial differential equations, 12A51
CHEN, GS: Conventional K calibration equations for single-edge-cracked tension specimens, 10A834
CHEN, GUANRONG: Nonlinear Feedback Control Systems: An Operator Theory Approach, 6R9
CHEN, GUI-QIANG: Global solutions to the cylindrically symmetric rotating motion of isentropic gases, 12A1066
CHEN, GUOQING: Variational principles with complementarity for contact problems and nonlinear complementarity models (Chinese), 11T68
CHEN, H: Design methods of volute casings for turbocharger turbine applications, 10A1213
- Wear of aluminum matrix composites reinforced with nickel-coated carbon fibers, 10A978
CHEN, H-K: Stability analyses of a cracked shaft subjected to the end load, 6A146
- Global stability of a shielded dual-spin satellite, 8A779
CHEN, HAIBO: Stress rate integral equations of elastoplasticity, 10A552
CHEN, HAMM-CHING: Interactive RANS-Laplace method for nonlinear free surface flows, 7A275
CHEN, HAMN-CHING: Submarine flows studied by second-moment closure, 2A791
CHEN, HAN-TAW: Function estimation in predicting temperature-dependent thermal conductivity without internal measurements, 3A1106
- Numerical simulation for conjugate problem of natural convection on both sides of a vertical wall, 4A1149
- Numerical algorithm for estimating temperature-dependent thermal conductivity, 12A1251
CHEN, HAORAN: Generalized self-consistent FE iterative averaging method (Chinese), 7A594
- Thermal buckling analysis of laminated composite plates with temperature-dependent material properties (Chinese), 8A1236
- Nonlinear thermal buckling for composite laminate with elliptical delamination (Chinese), 8A1224
- Effects of microstructure on the macroscopic elasto-plastic properties of metal matrix composites, 9A547
- Finite element method for nonlinear viscoelastic analysis of laminated composite plates (Chinese), 11A443
- Complex stress intensity factor of multi-material structure with an interface crack (Chinese), 11A665
CHEN, HENG-HUI: Stability of rate gyro in a vehicle with uncertian angular velocity and acceleration, 6A96
CHEN, HM: Neural notwork for structural dynamic model identification, 6A274
CHEN, HONG: FE model for thin-walled space frame flexible connection behavior, 2A783
- Penalty upwind FEM for diffusive convection problem in double-diffusive system, 6A1187
CHEN, HONG-JI: Three-dimensional effective moduli of symmetric laminates, 12A561
CHEN, HOW-WEI: Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles, 3A1286
CHEN, HSIN-HUNG: Geometry design of globoidal cams with generalized meshing turret-rollers, 12A952
CHEN, HUIXIN: Strong consistency and convergence rate of parameter identification for bilinear systems, 10T402
CHEN, HUNG-LIANG: Dynamic responses of shallow-buried flexible plates subjected to impact loading, 6A130
- Analysis of liquid-core cylindrical acoustic waveguides embedded in solid media, 6A180
CHEN, HUO-WANG: Acoustic time-dependent loading on elastic shells of revolution using the internal source density and singular value decomposition method, 9A306
CHEN, HWANG-KUEN: Whirl speeds and stability of rotating shaft subjected to end loads, 2A144
CHEN, I-FENG: Interface cracks in a layered solid subjected to contact stresses, 12A488
CHEN, IK: Drilling carbon fiber-reinforced composite material at high speed, 12A686
CHEN, ING-HONG: Minimum zone evaluation of circles and cylinders, 7A479
CHEN, J-C: Linear stability analysis of thermocapillary convection in liquid bridges using a mixed finite difference-spectral method, 1A1197
- Influence of inner-wall motion on the linear stability of natural convection in a tall vertical annulus, 3A1051
CHEN, J-J: Inclined and horizontal wall plumes, 11A1118
CHEN, J-S: Computerized determination of curvature relations and contact ellipse for conjugate surfaces, 1A941
CHEN, J-T: Experimental analysis of an arbitrarily inclined semi-infinite crack terminated at the bimaterial interface, 10A809
CHEN, JACQUELINE H: Unsteady strain rate and curvature effects in turbulent premixed methane: Air flames, 12A1304
CHEN, JAHAU L: Application of genetic algorithm for the support location optimization of beams, 4A543
CHEN, JC: Heat transfer during liquid contact on superheated surfaces, 3A1085
- Boiling inception in falling films of binary mixtures, 6A1107
- Fuzzy logic based approach for Pokayoke stoplight control in unmanned manufacturing cells, 7A471
CHEN, JD: Effect of humidity on the tribological behavior of carbon-carbon composites, 11A802
CHEN, JEN-SAN: Vibration and stability of a spinning disk under stationary distributed edge loads, 12A183
CHEN, JENG-TZONG: Thermomechanical response analysis of lithographic mask structure using FEM, 3A644
CHEN, JF: Rigorous statistical technique for inferring circular silo wall pressures from wall strain measurements, 8A784
- Local stiffening effect of "double deck" bending strain gauges - Part 1, 10A872
- Local stiffening effect of "double deck" bending strain gauges - Part 2, 12A805
CHEN, JH: Clarification of the mechanical behavior of spinal motion segments through a 3D poroelastic mixed FE model, 10A1462
CHEN, JIA-DONG: Unsteady propeller surface pressure prediction with a potential based panel method, 6T1011
CHEN, JIA-WINE: Influence of the die arc on formability in cylindrical cup-drawing, 7A22
- Influence of the tool clearance in the cylindrical cup-drawing process, 10A697
CHEN, JIAHUA: Burning model of internal combustion engine based on neural networks (Chinese), 7A1343
- New measuring technique of diesel spray (Chinese), 8A936
- Finite element simulation of 2D-square cavity flow (Chinese), 8A27
CHEN, JIAN: Optimal strategies for the cooling of steel strips in hot strip mills, 8A561
CHEN, JIAN-FENG: Experimental demonstration of the frequency dependence of the effective scatterer number density, 9A391
CHEN, JIAN-SHIANG: Design of a global sliding-mode controller for a motor drive with bounded control, 3A346
CHEN, JIANNING: Calculation of eigenvalues for the stationary perturbation of Couette-Poiseuille flow, 6A960
CHEN, JIANYUN: Quasi-conformal trapezoidal element for orthotropic thin plate and thin shell (Chinese), 8A44
CHEN, JIE: New method for computing delay margins for stability of linear delay systems, 2A252
- Buoyancy effects on the mass transfer in absorption with a nonabsorbable gas, 6A1184
- Design of unknown input observers and robust fault detection filters, 8A347
CHEN, JIING-LIN: Influence of surface mass flux on vortex instability of a horizontal mixed convection flow in a saturated porous medium, 2A1106
CHEN, JINCAN: Optimal analysis of primary performance parameters for an endoreversible absorption heat pump, 2A1144
CHEN, JJ: Dynamic reliability analysis of antenna reflector accuracy under wind excitation, 9A954
CHEN, JM: E-ε modeling of turbulent air flow downwind of a model forest edge, 8T1362
- Interlaminar shear stress analysis of composite laminate with layer reduction technique, 8A458
CHEN, JS: Control of pressure oscillation in bilinear-displacement constant-pressure element, 5A23
- Overview and applications of the reproducing Kernel Particle methods, 9A22
CHEN, JT: Dual boundary integral equations for exterior problems, 9A108
CHEN, JUN: Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), 4A608
CHEN, JUNKAI: Numerical simulation of complicated pipe flow with k-ε model, 1A1054
CHEN, JW: Determining relative density of sands from CPT using fuzzy sets, 6A537
- Determination of drained friction angle of sands from CPT, 10A690
CHEN, JY: Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, 2A1183
CHEN, K-Z: Dynamic analysis of a channel beam due to a moving load, 6A123
CHEN, KAISHENG: Artificial intelligence β-unzipping method in structural system reliability analysis, 12A837
CHEN, KANG PING: Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids, 1A996
CHEN, KUAN: Thermodynamic charts for nonequilibriam plasma flow in a supersonic nozzle, 6A927
- Analysis of the heat transfer rate and efficiency of TE (thermoelectric) cooling systems, 11A1226
CHEN, KUO-CHENG: Shear-wave velocity of the sedimentary basin in the upper Mississippi embayment using S-to-P converted waves, 12A1361
CHEN, KUO-TSAI: Study of acoustic transmission through apertures in a wall, 4A312
- Study on the acoustic transmission loss of a rigid perforated screen, 12A300
- Plate-damping measurements in a single reverberation room, 12A317
CHEN, L-W: Dynamic stability of rotating blades with geometric nonlinearity, 4A211
- Stability analyses of a cracked shaft subjected to the end load, 6A146
CHEN, LD: Cavitation dynamics of Medtronic Hall mechanical heart valve prosthesis: Fluid-squeezing effect, 9A1462
CHEN, LG: Study on optimal performance and working temperatures of endoreversible forward and reverse Carnot cycles, 4A1136
CHEN, LIEN-WEN: Whirl speeds and stability of rotating shaft subjected to end loads, 2A144
CHEN, LIMIN: Forebody vortex control using nose-boom strakes, 1T1120
CHEN, LIN-HUNG: Vibration of a spinning cylindrical shell with internal-external ring stiffeners, 10A189
CHEN, LINGEN: General performance characteristics of a finite-speed Carnot refrigerator, 7A1274
CHEN, LONGMENG: Development of CAI systems of mathematical logic and intelligence (Chinese), 11A354
CHEN, MC: Detection of tool failure in end milling, 10A448
CHEN, MING: Burning model of internal combustion engine based on neural networks (Chinese), 7A1343
- Unigraphics software and ship CAD-CAM platform (Chinese), 9A1015
CHEN, MING-FA: Shape sensitivity analysis for steady metal-forming processes, 9A703
CHEN, MING-HUA: PDF description of turbulent plane Couette flow, 4A934
CHEN, MM: Force on a circular cylinder in an elliptical orbital flow at low Keulegan-Carpenter numbers, 1A247
CHEN, MX: Micromechanical model of texture-induced orthotropy in planar crystalline polymers, 7A2
CHEN, MY: Modeling and simulation of assembly in a free-floating work environment by a free-floating robot, 8A357
CHEN, N: Hybrid fuzzy logic algorithm for position control of pneumatic actuator with 3/2-way solenoid valves, 11A345
CHEN, NX: Computerized determination of curvature relations and contact ellipse for conjugate surfaces, 1A941
CHEN, P: Development and linear stability of rotating boundary layers, 6A982
- Unstable flow in centrifugal fans, 9A1236
CHEN, PEI-TAI: Complex power, reciprocity, and radiation for submerged bodies, 5A270
CHEN, PENG: Study on plant inspection and diagnosis robot - 1st report: Conceptual design and fuzzy diagnosis of machine failures by sound information (Japanese), 2A321
- Study on plant inspection and diagnosis robot - 2nd Report: Searching method for the faulty machine based on sound spectrum and fuzzy navigation (Japanese), 9A466
CHEN, PING-HEI: Convective transport phenomena in an impulsively started lid-driven open-cavity flow, 10A1249
CHEN, PO-SHU: Scalable Lagrange multiplier based domain decomposition method for time-dependent problems, 9A90
CHEN, PY: Heat transfer and friction characteristics of convex-louver fin-and-tube heat exchangers, 12A1258
CHEN, Q: Comparison of different k-ε models for indoor air flow computations, 4A1173
- Parametric identification of systems with dry friction and nonlinear stiffness using a time series model, 10A400
CHEN, QH: Modulation in real time of the energy repartition of a laser beam (French), 4A772
CHEN, QI: Approximate optimal points for polynomial interpolation of real functions in an interval and in a triangle, 5A59
CHEN, QINGBIN: Beginnings of earthquakes in the Mexican subduction zone on strong-motion accelerograms, 2A1239
CHEN, QINGYUN: Dynamic analysis of 3D lattice flat shells (Chinese), 11T120
CHEN, QIPING: Reseach on principle of slow-scanning controlled electrochemical boring of gears (Chinese), 7A745
CHEN, QIU: Weighted residual method by Monte Carlo for random numerical analysis of structures (Chinese), 11A741
CHEN, QS: Swirling flows in circular to rectangular transition ducts, 10A1148
CHEN, QUI: New equivalent nonlinearization method for random vibrations of nonlinear systems, 8T98
CHEN, RC: Three-dimensional particle image velocimetry for use in three-phase fluidization systems, 4A1314
CHEN, ROBERT TN: Optimal vertical takeoff and landing helicopter operation in one engine failure, 9A965
CHEN, RONG-SHENG: Approach of the special FE for honeycore composites, 1A578
CHEN, RONGGENG: Refined method of geometric stiffness matrix for analysis of thin plate stability (Chinese), 9A628
CHEN, RTN: Critical considerations for helicopters during runway takeoffs, 1A920
CHEN, S: New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, 2A318
CHEN, S-H: Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, 4A150
CHEN, SC: Numerical simulation and experimental verification of melt front advancements in coinjection molding process, 3A905
- Analysis of free surface momentum and energy transport in porous media, 8A1110
CHEN, SH: Natural frequencies of structures with uncertain but nonrandom parameters, 2A773
- Elliptic perturbation method for certain strongly nonlinear oscillators, 10A102
- Modified Lindstedt-Poincare method for a strongly nonlinear system with quadratic and cubic nonlinearities, 12A116
- Chaotic vibration in fluid-stiffness-controlled instability of a tube row in crossflow, 12A264
- Modified Lindstedt-Poincare method for a strongly nonlinear two-dof system, 12A115
CHEN, SHEN-EN: Dynamic responses of shallow-buried flexible plates subjected to impact loading, 6A130
CHEN, SHI: Multi-dimensional mathematic model for processes in cylinder of internal combustion engines (Chinese), 8A1288
CHEN, SHIA CHUNG: Simulations of gas penetration in thin plates designed with a semicircular gas channel during gas-assisted injection molding, 6A940
- Polymer melt flow and gas penetration in gas-assisted injection molding of a thin part with gas channel design, 12A1219
CHEN, SHIA-CHUNG: Simulation of the melt front advancement in injection molded plate with a rib of semicircular cross section, 1A1211
CHEN, SHIH H: Axisymmetric thermophoresis of multiple aerosol spheres, 7A1351
CHEN, SHILIN: Improved dynamic stiffness method and modal analysis for beam-like structures, 12A150
CHEN, SHINN-HORNG: Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, 9A398
CHEN, SHIYI: Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part 1: Velocity field, 8A977
CHEN, SHULIN: New model describing convective-dispersive phenomena derived by using the mixing-cell concept, 9A1302
CHEN, SHYH-LEH: Normal modes for piecewise linear vibratory systems, 12A118
CHEN, SHYUAN-JYE: Flight envelopes for hypersonic aerorendezvous at constant altitude, 12T385
CHEN, SL: Exact model reduction technique for beam structures: Combination of transfer and dynamic stiffness matrices, 1A132
- Improved transfer matrix technique as applied to BHA lateral vibration analysis, 1A181
- Dynamic force identification for beamlike structures using an improved dynamic stiffness method, 10A144
CHEN, SONGLIN: Robust control via state feedback for a class of uncertain bilinear systems, 9A421
CHEN, SS: Experimental fluid-force coefficients for wake-induced cylinder vibration, 1A252
- Laminar, buoyancy induced flow structures in a bottom heated, aspect ratio 2 duct with through-flow, 3A1058
- Experiment of chaotic vibration of loosely supported tube rows in cross-flow, 5A217
- Unsteady-motion theory of magnetic forces for maglev systems, 6A777
- Chaotic vibration in fluid-stiffness-controlled instability of a tube row in crossflow, 12A264
CHEN, ST: Feature-based design of progressive press tools, 5A564
CHEN, SU-HUA: Statistics of eigensolutions for systems with random shape parameters using BEM, 10A55

CHEN, SU-HUAN: Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, 11A137
CHEN, SUHUAN: New method for computing the upper and lower bounds on frequencies of structures with interval parameters, 2T151
- Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, 4A786
- Generalized probabilistic perturbation method for static analysis, 4A801
- Statistical properties of response for nonlinear structural systems with random parameters, 5A171
- Displacement bound estimation for structures with an interval description of uncertain parameters, 7A921
- Sensitivity analysis of eigenproblems for symmetrically-laminated composite plates, 8A136
- Stochastic perturbation FEs, 8A46
- Bounds of eigenvalues for structures with an interval description of uncertain-but-non-random parameters, 9A242
- Non-probablistic eigenvalue problem for structures with uncertain parameters via interval analysis, 9A247
CHEN, SY: Estimation of system matrices by dynamic condensation and application to structural modification, 4A810
- Extraction of normal modes for highly couples incomplete systems with general damping, 6A271
CHEN, T: Study on personal noise exposure in China, 12A299
CHEN, T-F: Numerical studies of optimal grid construction, 7A1302
CHEN, TC: Thermal stresses in a multilayered anisotropic medium with interface thermal resistance, 5T1187
CHEN, TEI-CHEN: Evaluation of the preform design of a stepped forging part by coupled thermoviscoplastic FE analysis and viscoplasticity, 12A679
CHEN, TERNG-HUEI: Analysis of asymmetrical clad sheet rolling by stream function method, 7A725
CHEN, TIE-YUN: Stress analysis of spatial frames with consideration of local flexibility of multiplanar tubular joint, 10A932
CHEN, TINGGUO: Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), 8A581
CHEN, TONGWEN: State-space approach to discrete-time H_2-optimal control with a causality constraint, 2T267
CHEN, TR: Analysis of superplastic blow-forming in a circular closed-die, 12A669
CHEN, TS: Effects of upstream wall heating on mixed convection in separated flows, 3A1057
- Non-Darcy mixed convection along nonisothermal vertical surfaces in porous media, 7A1363
- Measurements in buoyancy-opposing laminar flow over a vertical forward-facing step, 8A1068
- Convective heat transfer of rotating spheres and spheroids with non-uniform surface temperatures, 8A1101
CHEN, TY: Non-conservative instability of a Timoshenko beam subjected to a partially tangential follower force, 5A123
CHEN, TZE-JANG: Hybrid numerical method for the shallow water equations with source term, 5A209
CHEN, W: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
CHEN, W-F: Constitutive Equations for Engineering Materials Volume 1: Elasticity and Modeling, 1R14
- Constitutive Equations for Engineering Materials Volume 2: Plasticity and Modeling, 1R15
CHEN, W-H: Extension of spline wavelets element method to membrane vibration analysis, 12A158
CHEN, WAI-FAH: Analysis and Software of Cylindrical Members, 5R14
- Analysis of concrete placement load effects using influence surfaces, 9A907
CHEN, WANJI: Refined method of geometric stiffness matrix for analysis of thin plate stability (Chinese), 9A628
- Variational principles with complementarity for contact problems and nonlinear complementarity models (Chinese), 11T68
CHEN, WEI: Analysis of the influence of main control parameters in the transient response calculation (Chinese), 6A8
- System configuration: Concurrent subsystem embodiment and system synthesis, 12A470
CHEN, WEI SHIN: Numerical investigation of multiple flame configurations in convective droplet gasification, 3A1227
CHEN, WEIJIANG: Cauchy singular integral equation method for transient antiplane dynamic problems, 10A819
CHEN, WEIMIN: Numerical simulations for extrusion and ironing and die-angle optimization, 6A558
CHEN, WEIQIU: Nonaxisymmetric free vibrations of a spherically isotropic spherical shell embedded in an elastic medium, 11A124
CHEN, WEN: Approximate formulas of impact force for normal impact of a finite elastic beam on elastic foundation by a finite rod, 9A571
- Large amplitude liquid sloshing in seismically excited tanks, 12A258
- Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, 12A610
CHEN, WEN RUEY: Transient natural convection heat transfer between concentric and vertically eccentric spheres, 7A1215
CHEN, WEN-HWA: Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, 5A33
- Three-dimensional thermoelastic contact between two plates with bolted joints, 8A1227
- Thermoviscoelastic contact analysis with friction by an incremental thermal relaxation procedure, 12A1290
- Multilayer hybrid-stress FE analysis of composite laminates with delamination cracks originating from transverse cracking, 12A12
CHEN, WENZHEN: General performance characteristics of a finite-speed Carnot refrigerator, 7A1274
CHEN, WF: Advanced Analysis of Steel Frames: Theory, Software, and Applications, 3R15
- Civil Engineering Handbook, 11N49
- Analysis and design of steel frames considering panel joint deformations, 2A781
- Analysis and design of mushroom slabs with a strut-tie model, 3A581
- Stability analysis of semirigid steel scaffolding, 4A871
- High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, 7A925
- High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, 7A924
- Influence of interface layer on microstructural stresses in mortar, 8A509
- Stress analysis of a sand particle with interface in cement paste under uniaxial loading, 10A663
CHEN, WJ: Recirculation zones of unconfined and confined annular swirling jets, 8A968
CHEN, WQ: Natural frequencies of an elastic spherically-isotropic hollow sphere submerged in a compressible fluid medium, 10A307
CHEN, WR: Transient natural convection between concentric and vertically eccentric spheres with mixed boundary conditions, 8A1083
CHEN, WT: Applications of Fracture Mechanics in Electronic Packaging and Materials, EEP-Vol 11/MD-Vol 64 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 5N20
CHEN, WZ: Study on optimal performance and working temperatures of endoreversible forward and reverse Carnot cycles, 4A1136
CHEN, X: Blank development and the prediction of earing in cup drawing, 8A544
- Overview of recent advances and evaluation of the virtual-pulse (VIP) time-integral methodology for general structural dynamics problems: Computational issues and implementation aspects, 11A158
CHEN, X-Q: Computation of turbulent evaporating sprays with well-specified measurements: A sensitivity study on droplet properties, 4A1187
CHEN, XF: Damage strain energy release rate Y, 1A829
CHEN, XIAO MING: Spanning line segments of a polyhedron, 8A829
CHEN, XIAO-BO: Decomposition of free-surface effects into wave and near-field components, 5A200
CHEN, XIAOFEI: Seismogram synthesis for multi-layered media with irregular interfaces by global generalized reflection-transmission matrices method - II: Applications for 2D SH case, 2A1235
- Seismogram synthesis for multi-layered media with irregular interfaces by global generalized reflection-transmission matrices method - III: Theory of 2D DP-SV case, 11A1396
CHEN, XIAOQIN: Virtual-pulse time integral methodology: A new approach for computational dynamics - Part I: Theory for linear structural dynamics, 1A111
- Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 2: Theory for nonlinear structural dynamics, 1A112
CHEN, XINFU: Reaction infiltration problem - Part I: Existence, uniqueness, regularity, and singular limit in one space dimension, 12T1297
CHEN, XJ: Dynamic instabilities of boiling two-phase flow in a single horizontal channel, 4T1179
CHEN, XUCAI: Radiation force on a spherical object in an axisymmetric wave field and its application to the calibration of high-frequency transducers, 7A315
CHEN, Y: Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, 1A1174
- Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, 1A1173
- Control of a flexible space robot executing a docking manuever, 1A426
- Overview and applications of the reproducing Kernel Particle methods, 9A22
CHEN, Y-L: Direct measurements of slip in sheared polymer solutions, 4A880
CHEN, Y-M: Inclined and horizontal wall plumes, 11A1118
- Fuzzy neural controller design for use with a nonlinear system, 12A429
CHEN, YA: Wear behavior of laser-clad stellite alloy 6, 10A976
CHEN, YAOSONG: Shearing flow near a bypass with a ball in it, 9A1149
CHEN, YC: Crack initiation load characterization using the critical plastic energy, 8A565
CHEN, YD: Fault features of large rotating machinery and diagnosis using sensor fusion, 6A705
CHEN, YEN-HSUN: Flight envelopes for hypersonic aerorendezvous at constant altitude, 12T385
CHEN, YEN-SEN: Computational pollutant environment assessment from propulsion-system testing, 12A1331
CHEN, YENPU: Experimental and analytical investigation of transonic limit-cycle oscillations of a flaperon, 2A1014
CHEN, YH: Initial growth direction of interface crack as influenced by nearby substrate crack in dissimilar media, 2A664
- Flexibility of TLD to high-rise building by simple experiment and comparison, 2A87
- Fuzzy ratings in mechanical engineering design: Application to bearing selection, 7A1017
- Crack initiation angles for systems of two intersecting cracks in media with rectilinear-preferred directions, 8A669
- Performance analysis of controlled uncertain systems, 9A412
- Decentralized robust control design for uncertain delay systems, 11A272
- Robust stabilization of large-scale time-delay systems with estimated state feedback, 12A321
CHEN, YI-AN: Multiobjective optimization of hard-disk suspension assemblies - Part II: Integrated structure and control design, 9A949
CHEN, YI-CHAO: Stability of homogeneous deformations in nonlinear elasticity, 4A429
- Stability and bifurcation of homogeneous deformations of a compressible elastic body under pressure load, 9A471
CHEN, YI-HENG: Contribution of discontinuities in a near-tip stress field to the J-integral, 12A774
CHEN, YIHENG: Faults in the stress analysis of power-hardening materials with pseudo-stress function method, 12T478
CHEN, YIJUNG: Three reliability methods for fatigue crack growth, 8A606
CHEN, YINHENG: Finite-element analysis of solidification of aluminum with natural convection, 3A633
CHEN, YOHCHIA: Modeling and analysis methods of bridges and their effects on seismic responses - II: Implementation, 7A195
- Modeling and analysis methods of bridges and their effects on seismic responses - I: Theory, 7A194
CHEN, YON-PING: Smooth sliding-mode control for spacecraft attitude tracking maneuvers, 4A300
CHEN, YONG-TAN: Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, 11A806
CHEN, YONGLIANG: Two-phase modeling of cavitated flows, 2A855
- Modeling hydrodynamic nonequilibrium in cavitating flows, 9A1050
CHEN, YS: Phase coupling in orthogonal cutting, 10T707
CHEN, YU: Study of dynamic and mechanical behavior of SiCp/Al composite under tensile impact, 2A442
CHEN, YUANQIANG: Endochronic analysis for compressive buckling of thin-walled cylinders in yield region, 4T578
CHEN, YUEDONG: Fuzzy expert system for the design of machining operations, 2A327
CHEN, YUNG-CHANG: Robust tracking and model following for uncertain time-delay systems, 2A277
CHEN, YUNG-HSIANG: Beam length and dynamic stiffness, 9A181
- Plate-damping measurements in a single reverberation room, 12A317
CHEN, YUSHU: Chaos of nonlinear vibration systems under parametric and external excitation (Chinese), 10A98
- Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, 10A309
CHEN, YZ: New integration scheme for the branch crack problem, 4A746
- Properties of eigenfunction expansion form for the rigid line problem in dissimilar media, 5A390
CHEN, Z: Remarks on domain-transition problems, 3A11
- Continuous and discontinuous failure modes, 6A602
- Sliding wear behavior of deformation-processed cu-15vol%Cr in situ composites, 12A911
CHEN, ZH: Evaporative material removal process with a continuous wave laser, 1A736
CHEN, ZHANGXIN: Superconvergence results for Galerkin methods wave propagation in various porous media, 5A183
- Large-scale averaging analysis of multiphase flow in fractured reservoirs, 5A1300
- Domain decomposition algorithms for mixed methods for second-order elliptic problems, 9A56
CHEN, ZHENFAN: Mechanism of IRCF (Internal resonance due to closely spaced natural frequencies) (Chinese), 4A97
CHEN, ZHENGXIN: Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, 12A610
CHEN, ZHIHANG: Energy and Environment - Proc of Int Conf on Energy and the Environment, 1995, 9N30
CHEN, ZHIYING: Molecular dynamics studies on the dislocation gliding near a tilt boundary, 10A559
CHEN, ZHONG: Parallel algorithm for constrained optimization problems, 4A354
CHEN, ZHONGQI: Two-dimensional numerical study on a rectangular thermosyphon with vertical or horizontal heat transfer sections, 2A1095
CHEN, ZP: Counter current vascular network model of heat transfer in tissues, 9A1455
CHENEVERT, DJ: Appraisal of 1D analytical models for the packed bed thermal storage systems utilizing sensible heat storage materials, 8A1213
CHENG , CHANGJUN: Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), 9A109
CHENG , WANZHI: Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), 9A636
CHENG , XIAO-LIANG: Checkerboard patterns of P_2-P_1 discontinuous pressure elements, 3A25
CHENG , ZHIQING: Dynamic design of a flutter model of airfoil (Chinese), 3A222
CHENG, A: Roller device to scan for surface-breaking cracks and to determine crack depth by a self-calibrating ultrasonic technique, 10A864
CHENG, AH-D: Deterministic and stochastic analysis of acoustic plane-wave reflection from inhomogeneous porous seafloor, 7A339
- Global interpolation function based DRBEM applied to Darcy's flow in heterogeneous media, 8A1324
- Mandel's problem revisited, 12A646
CHENG, AHD: Finite element analyses of anisotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, 12A1352
CHENG, AS: Modeling and evaluating the scattering of Rayleigh waves by a linear distribution of surface cracks, 8A177
CHENG, CC: Vibration reduction of a mass-loaded beam, 4A225
CHENG, CHANG-JUN: Boundary integral equations and the BEM for buckling analysis of perforated plates, 11A556
CHENG, CHANGJUN: Mathematical models and generalized variational principles of nonlinear analysis for perforated thin plates, 9A578
CHENG, CHIANG-HO: Thermoelastic properties of short-coated fiber composites: Effects of length and orientation distributions, 7A1293
- Secant moduli of a glass bead-reinforced silicone rubber specimen, 8A470
- Effective elastic moduli of misoriented short-fiber composites, 11A466
CHENG, CHIH-CHIANG: Tilt of stationary capsule in pipe, 6T942
CHENG, CHIN-HSIANG: Conjugate heat transfer and buoyancy-driven secondary flow in the cooling channels within a vertical slab, 3A1033
CHENG, CHUEN HON: Estimations of formation velocity, permeability, and shear-wave anisotropy using acoustic logs, 8A542
CHENG, CHUNTIAN: Determination of parameters of hydrologic model considering effect of human activity on runoff (Chinese), 8A1444
CHENG, ERSHENG: Partially continuous composite grid generation for solution of partial differential equations (Chinese), 9T45
CHENG, FY: Multiobjective optimization of structures with and without control, 8A284
CHENG, G: Aspects of truss topology optimization, 6A711
CHENG, GENGDONG: Investigation of truss topology optimization under local buckling constraints (Chinese), 7A904
- Topological optimization of plane elastic continuum with stress constraints (Chinese), 8A728
- Homogenization-based method for predicting thermal expansion coefficients of composite materials (Chinese), 8A1234
- Reliability of structural system under hazard action (Chinese), 8A735
- New method for graded mesh generation of quadrilateral FEs, 9A78
CHENG, GUANGXU: Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, 10A737
CHENG, HD: Feasible map algorithm for path planning, 12T437
CHENG, HH: Kinematic analysis of a hybrid serial-and-parallel-driven redundant industrial manipulator, 4A398
- Computer-aided displacement analysis of spatial mechanisms using the C^{++} programming language, 5A94
CHENG, HK: Transonic equivalence rule involving lift and shocks, 10T1201

CHENG, HUI: Feasible map algorithm for path planning, 12T437
CHENG, HWAI-PING: Lagrangian-Eulerian method with adaptively local zooming and peak-valley capturing approach to solve 2D advection-diffusion transport equations, 9A1306
- Particle tracking technique for the Lagrangian-Eulerian FEM in multi-dimensions, 9A66
CHENG, J-Y: Hydrodynamics of scallop locomotion: Unsteady fluid forces on clapping shells, 12A1470
CHENG, JEN-CHIEH: Unstructured Euler flutter analysis of 2D wing-tail configuration, 2T197
CHENG, JING-RU: Lagrangian-Eulerian method with adaptively local zooming and peak-valley capturing approach to solve 2D advection-diffusion transport equations, 9A1306
- Particle tracking technique for the Lagrangian-Eulerian FEM in multi-dimensions, 9A66
CHENG, KC: Note on thermocouple measurements for laminar-turbulent transition phenomena in pipe flow, 6A1105
CHENG, L: Free and forced vibration of a cylindrical shell with a floor partition, 7A171
CHENG, LEMING: Heat transfer in a pressurized circulating fluidized bed, 11A1328
CHENG, M: Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, 2A885
CHENG, MING-TE: Sensitivity of the wave-number domain field separation method for scattering, 12A310
CHENG, MK: New method for computing the spectrum of the gravitational perturbations on satellite orbits, 3A231
CHENG, NIEN TIEN: Simulations of gas penetration in thin plates designed with a semicircular gas channel during gas-assisted injection molding, 6A940
CHENG, NINGYA: Estimations of formation velocity, permeability, and shear-wave anisotropy using acoustic logs, 8A542
CHENG, P: Numerical solution of laminar forced convection in a heated pipe subjected to a reciprocating flow, 1A1182
- Friction coefficient of a fully-developed laminar reciprocating flow in a circular pipe, 11A957
- Anisotropic elastic-plastic constitutive model for single and polycrystalline metals - I: Theoretical developments, 11A459
- Stagnation point flow of a chemically reactive fluid in a catalytic porous bed, 12A1348
CHENG, RK: Coupling of conical wrinkled laminar flames with gravity, 1A1315
CHENG, S: Nonlinear analysis of prestretched circular membrane and a modified iteration technique, 4A548
CHENG, SHIH-NAN: Moderate-magnitude seismicity remotely triggered in the Taiwan region by large earthquakes around the Philippine Sea plate, 12A1360
CHENG, SM: Study on optimal performance and working temperatures of endoreversible forward and reverse Carnot cycles, 4A1136
CHENG, TIWU: Transient solutions for 3D lid-driven cavity flows by a least-squares FEM, 2A16
CHENG, WK: Oxidation of the piston crevice hydrocarbon during the expansion process in a spark ignition engine, 3A1229
CHENG, XIAOHUA: Fatigue crack growth prediction model with load interaction effects using crack closure concept, 1T745
CHENG, YAN DON: Acoustic imaging in turbulent media with the spatial bispectrum, 3A264
CHENG, YAOSHUN: Plastic post-buckling of a simply supported column with a solid rectangular cross-section, 4A565
CHENG, YC: Experimental studies of laminar flow and heat transfer in a one-porous-wall square duct with wall injection, 2A1086
- Investigation of the effect of speeds of work rolls on rolling strip, 5A560
CHENG, YM: Use of infinite element, 7A45
- Finite element modeling of reinforced concrete structures with laboratory verification, 8A749
CHENG, ZHEN-QIANG: Correspondence relations between the effective thermoelastic properties of composites reinforced by spherically anisotropic particles, 5A479
CHENG, ZHENGXING: Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), 4A393
CHENOT, J-L: Fundamentals of Metal Forming, 12R15
- Inverse problems in FE simulation of metal forming processes, 11A587
CHENOT, JL: Introduction of anisotropy in viscoplastic 2D and 3D FE simulations of hot forging, 3A599
- Optimal design for non-steady-state metal forming processes - I: Shape optimization method, 5A566
- Optimal design for non-steady-state metal forming processes - II: Application of shape optimization in forging, 5A567
- Finite element calculation of thermal coupling between workpiece and tools in forging, 9A693
CHENTSOV, AG: Extension of the nonlinear problem of optimal control with nonstationary phase restrictions, 4T350
- Bounded realization of asymptotically attainable elements, 12A344
CHEOK, BT: Intelligent planning aid for the design of progressive dies, 7A723
CHEONG, HF: Effectiveness of tuned liquid column dampers for vibration control of towers, 4A215
- Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, 12A262
CHEPIL, MV: Application of the factorization method to some hydroelasticity problems, 5A395
CHERAGHI, SH: Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, 2A286
CHEREMISINOFF, NP: Mixed-Flow Hydrodynamics - Advances in Engineering Fluid Mechanics Series, 9N18
CHEREPANOV, GP: General properties of strength criteria, 1A778
- Analysis of two models of super-deep penetration, 7A250
CHEREPENNIKOV, IA: Three-phase fluidized bed for quenching steel parts, 10A1421
CHERHABILI, A: Spatially localized 2D finite-amplitude states in plane Couette flow, 4A1058
CHERKAEV, AV: Extremal structures of multiphase heat conducting composites, 11A1198
- Complete characterization of the possible bulk and shear moduli of planar polycrystals, 12A3
CHERKAOUI, M: Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, 11A1213
CHERKASHIN, VA: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
CHERN, B-C: Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part II: Dependent scattering effect, 3A1142
- Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part I: Predictions assuming independent scattering, 3A1141
CHERN, CHING-CHURN: Experimental study of base isolation by free rolling rods, 5A167
CHERN, GWO-LIANQ: Burr-breakout model development and experimental verification, 10A710
CHERN, JANN-LONG: Limit sets of dynamical systems on spheres, 9T158
CHERN, JENG-SHING: Flight envelopes for hypersonic aerorendezvous at constant altitude, 12T385
CHERNG, JG: Unsteady isentropic flow through ducts with prescribed sound pressure level distribution, 5A261
CHERNIKOV, AV: Impact of the kinematic precision of a gearing on the machine unit vibration activity, 7A1007
CHERNOOCHENKO, AA: Nonlinear properties of solids and some peculiarities of Rayleigh waves propagation in the bodies with initial stresses, 7A229
CHERNOUS'KO, FL: Reconstructing trajectories from measurement data, 1A401
CHERNOUS'KO, FL: Dynamics of retrieval of a space tethered system, 2A203
- Parameter optimization for a tube-crawling robot, 10A484
CHERNOV, YK: Probabilistic assessments of the seismic hazard in northern Armenia: Spitak region, 11A1399
CHERNYAVSKII, AY: Analysis of systems of interacting surface cracks, 6A675
CHERNYAVSKY, SA: Theory and synthesis of advanced thermal-protective composite materials, 12A1288
CHERNYKH, KF: Plane problem of nonlinear anisotropic theory of elasticity, 7A509
CHERNYSHENKO, IS: Nonlinear deformation of thin-walled shells under local loads (Russian), 3A537
CHERNYSHENKO, SI: High-Reynolds-number weakly stratified flow past an obstacle, 12A1047
CHERRETT, MA: Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
- Unsteady 3D flow in a single-stage transonic fan - Part II: Unsteady stator exit flow field, 5A1064
- Unsteady 3D flow in a single-stage transonic fan - Part I: Unsteady rotor exit flow field, 5A1063
CHERRY, AD: Providing rehabilitation integrated systems using existing rehabilitation technology, 10T1491
CHERRY, RGW: Probabilistic approach to safety - success or failure, 2A797
CHERUKUTHOTA, C: Improving milling performance with high pressure waterjet assisted cooling-lubrication, 5A571
CHERUVU, NS: Development requirements for an advanced gas turbine system, 5A1275
CHERVINKO, OP: Power analysis of stressed-deformed state of viscoelastic disk with rigidly fixed faced under cyclic compression (Russian), 3A447
CHESNAKAS, CJ: Measurements of the turbulence structure in the vicinity of a 3D separation, 12A1110
CHESS, DG: Accuracy of an electromagnetic tracking device: A study of the optimal operating range and metal interference, 10A1483
CHESWORTH, BM: Development of a home ankle exerciser, 11A1473
CHEUNG, FB: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14, 3N45
CHEUNG, HM: Information design for SAIL 1, 7A472
CHEUNG, KCK: Engineered wood construction: Structural properties for LRFD, 1A899
CHEUNG, KWOK-SHUN: Micro-mechanical model of a composite containing a conservative nonlinear electro-magneto-thermo-mechanical material, 3A483
CHEUNG, MS: Combined BE and FE analysis of composite box girder bridges, 1A910
- Vibration and stability analyses of thick anisotropic composite plates by finite strip method, 8A120
CHEUNG, S: Parallel computational fluid dynamics design on network-based computer, 11A923
CHEUNG, STJ: Cylindrical shell subject to local loads applied on an arbitrarily shaped area, 8A491
CHEUNG, SUNG-HOON: Tension stiffening model for planar reinforced concrete members, 7A945
CHEUNG, YK: Special bending crack tip FE, 1A41
- Accurate finite strip for analyzing deep beams and shear walls, 1A601
- Three-dimensional FE analysis of thick laminated plates, 2A478
- Postbuckling analysis of circular cylindrical shell under combined loads, 3A548
- Antiplane problems of collinear rigid line inclusions in dissimilar media, 4A718
- Free vibration and stability analysis of shells by the isoparametric spline finite strip method, 5A11
- Optimization approaches of hybrid stress elements, 5A35
- Static and free vibration analysis of variable-depth bridges of arbitrary alignments using the isoparametric spline finite strip method, 5A16
- Application of the finite strip method to plane fracture problems, 5A664
- Treffiz direct method, 5A51
- Infinite BE for elastodynamic problems of antiplane motion in an elastic half-space, 5A186
- Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, 7A192
- Analytical determination of equivalent modal damping ratios of a composite tower in wind-induced vibrations, 8A142
- Vibration of continuous beams using modified beam vibration functions, 8A110
- Nonlinear model for stability analysis of reticulated shallow shells with imperfections, 10A632
- Elliptic perturbation method for certain strongly nonlinear oscillators, 10A102
- Dynamic cross-interaction between flexible surface footings by combined BEM and FEM, 10A1428
- Modified Lindstedt-Poincare method for a strongly nonlinear system with quadratic and cubic nonlinearities, 12A116
- Modified Lindstedt-Poincare method for a strongly nonlinear two-dof system, 12A115
CHEVALIER, R: Balancing of rotating machines by influence coefficients with the help of numerical models (French), 7T177
- Rotating machines determination of influence coefficients from modal characteristics (French), 7A178
CHEVALLIER, DP: Transference principle in kinematics: Its various forms and limitations, 4A102
CHEVERDA, PP: Study of self-organization in dynamics of shells (Russian), 3A137
CHEW, CH: Buckling and vibration of multilayer orthotropic composite shells using a simple higher-order layerwise theory, 1A663
CHEW, JW: Mathematical modeling of brush seals, 6A1157
- Comparison of coupled and segregated iterative solution techniques for incompressible swirling flow, 8A950
CHEW, PE: Investigation of flow and heat transfer in corrugated passages - I: Experimental results, 3A1149
CHEW, YT: Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, 2A885
- Generalized differential and integral quadrature and their application to solve boundary layer equations, 3A946
- Proposed intermittency measurement method for transitional boundary layer flows, 4A1023
- Numerical near-wall corrections of single hot-wire measurements, 6A1106
- Investigation of intermittency measurement methods for transitional boundary layer flows, 10T1140
- Numerical approach to blade-vortex interaction in 2D viscous flow, 11T228
CHHABRA, RP: Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, 2A392
CHI, CW: Aircraft antilock brake system with neural networks and fuzzy logic, 3A362
CHI, JEFFREY: Crack-bridging force in random ductile fiber brittle matrix composites, 6A657
CHI, S-Y: Study on buckling of offshore pipelines, 8A517
CHI, SHU-MAN: Three-dimensional analysis of doubly-curved laminated shells, 10A616
CHI-HUA, WU: Model reference adaptive fuzzy control system on an aeroengine, 4A387
CHIA, CHUEN-YUAN: Effect of transverse shear on finite deformation of generally laminated shallow shell with double curvature, 9A577
CHIA, CY: Nonlinear theory and vibration analysis of laminated truncated, thick, conical shells, 10A191
CHIA, DAVID SHIKAO: Effect of transverse shear on finite deformation of generally laminated shallow shell with double curvature, 9A577
CHIAIA, B: Multifractal nature of concrete fracture surfaces and size effects on nominal fracture energy, 3A705
- Damage evolution in different types of concrete by means of splitting tests, 11A749
- Size effects on concrete fracture energy: Dimensional transition from order to disorder, 11A664
CHIANG, C: Experimental study of the effects of three-dimensionality on the near-wall turbulence structures using flow visualization, 8A986
CHIANG, CH: Oscillatory fuel droplet vaporization: Driving mechanism for combustion instability, 8A1267
CHIANG, DC: Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, 12A1214
CHIANG, FP: Nondestructive evaluation of corrosion by fractal geometry, 10A762
CHIANG, HW: Entrainment and mixing in vertical buoyant light-gas plumes, 8A1244
CHIANG, KO-TA: Effect on interfacial deformation on the onset of convective instability in a doubly diffusive fluid layer, 4A1246
CHIANG, ST: Navier-Stokes computations of heat transfer for high-speed flows, 11A921
CHIANG, TF: Antiplane interaction of an anisotropic elliptic inclusion with an arbitrarily-oriented crack, 10A806
CHIANG, WEI-TANG: Transient heating and vaporization of a cool dense cloud of droplets in hot supercritical surroundings, 6A1109
CHIANG, YEOU-CHERNG: Dynamic microstructural FEM for granular structures, 8A21
CHIANG, YJ: Accuracy assessment to applying 20-node solid elemeuts to pressurized composite shells, 4A4
CHIARAMONTE, JY: Aerodynamic interaction study of the propeller-wing under different flow configurations, 7A1178
CHIARELI, AOP: Flow focusing instability in a solidifying mushy layer, 2A1116
CHIARUTTINI, C: Modeling of ground motion in the vicinity of massive structures, 8A1334
CHIBA, A: Ductile-regime turning of quartz crystal, 1A722
CHIBA, H: Impact of a vortex ring on a wall in high Reynolds number region, 10A1066
CHIBA, M: Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, 5A532
- Nonlinear hydroelastic vibration of a cylindrical tank with an elastic bottom containing liquid - III: Nonlinear analysis with Ritz averaging method, 10A304
CHIBA, T: Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
CHIBA, Y: Alternative lower bounds analysis of elastic thin shells of revolution, 11A534
CHICHINADZE, VK: Kinematics of a rack-lantern-wheel gearing, 3A853
CHICK, M: Shock evolution after shaped charge jet impact and its relevance to explosive initiation, 1A217
CHICKERMANE, H: Structural optimization using a new local approximation method, 8A727
CHICONE, C: Periodic oscillations of a system of coupled oscillators near resonance, 1A99
CHIEN, CHI-HUI: Application of two-refractive-index contouring on the contour difference of two compared specimens, 12A784
CHIEN, CHIANG-JU: P-type iterative learning controller for robust output tracking of nonlinear time-varying systems, 11T297
CHIEN, K-Y: Inviscid dynamics of 2D shear layers, 9A1168
CHIEN, L-C: Solutions to a general forced nonlinear oscillations problem, 1A104
CHIEN, LAI CHEN: Application of flux-vector-splitting scheme to a dilute gas-particle JPL nozzle flow, 11A931
CHIEN, LS: Viscoelastic analysis of thick-walled filament-wound composite cylinders with elevated temperatures, 12T555
CHIEN, N: Conservation laws for thermo or poroelasticity, 12A500
CHIEN, PIE-YAU: Vibration suppression in a flexible structure based on fiber optics Michelson interferometric sensor, 9A176
CHIEN, SHU: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
CHIEN, WEI-ZANG: Second order approximation theory of 3D elastic plates and its boundary conditions without using Kirchhoff-Love assumptions, 1A603

CHIENG, CC: Supersonic base-flow computation using higher-order closure turbulence models, 12A1068
CHIENG, WEI-HUA: Polygon-to-object boundary clipping in object space for hidden surface removal in CAD, 5A846
- Joint displacement method for multiloop kinematic analysis, 6A359
CHIESA, P: Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, 5A1030
- Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, 5A1031
CHIEW, YEE-MENG: Mechanics of riprap failure at bridge piers, 1A978
CHIFAN, S: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
CHIGIER, N: Mechanics and Combustion of Droplets and Sprays, 11R44
- Development and evaluation of a new turbulence generator for atomization research, 8A933
CHIKAMATSU, S: Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), 7A763
CHIKH, S: Non-Darcian forced convection analysis in an annulus partially filled with a porous material, 5A1154
CHILDS , THC: Influence of TiC, CaF_2 and MnS additives on friction and lubrication of sintered high speed steels at elevated temperature, 11A811
CHILDS, D: Turbulent-flow hydrostatic bearings: Analysis and experimental results, 1A1146
CHILDS, DW: Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part I: The model and perturbation analysis, 5A837
- Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part II: Numerical solution and results, 5A838
- Extended three-control-volume theory for circumferentially-grooved liquid seals, 10A1018
- Experimental leakage and rotordynamic results for helically grooved annular gas seals, 10A229
CHILDS, PRN: Review of forced convective heat transfer in stationary and rotating annuli, 11A1115
CHILDS, T: Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994, 7N24
CHILDS, THC: Magnetic fluid grinding of ceramic balls, 5T830
CHIMA, RV: Effect of adding roughness and thickness to a transonic axial compressor rotor, 5A1054
CHIMENTI, DE: Air-coupled ultrasonic characterization of composite plates, 2A695
- Floquet analysis of guided waves in periodically layered composites, 3A300
- Precision ultrasonic reflection studies in fluid-coupled plates, 10A357
CHIMISSO, FEG: Modeling the necking of tension members using a theory of rods, 8A422
CHIN, BA: Infrared sensing for on-line weld geometry monitoring and control, 5A385
CHIN, C: Nonlinear normal modes of a cantilever beam, 5A124
CHIN, D: Thermal stability and heat transfer characteristics of methane and natural gas fuels, 5A1244
CHIN, JIH-HUA: Shaft behavior of BTA deep-hole drilling tool, 8A131
CHIN, JOANNIE W: Surface characterization and adhesive bonding of toughened bismaleimide composites, 11A489
CHIN, LP: Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, 7A1303
CHIN, MS: Stress-strain relationship of high-strength concrete in compression, 11A473
CHIN, WC: Formation Invasion - With applications to measurement-while-drilling, time lapse analysis, and formation damage, 3R47
CHIN, YU-CHI: Computation of vortex lock-in in the laminar wake of a circular cylinder using unsteady monopole sources, 1A1066
CHIN, YU-SHU: Multivariable control of the F-100 turbofan engine using Edmunds' method, 9A1343
CHIN-BING, SA: Multifilament source model for short-range underwater acoustic problems involving pentrable ocean bottoms, 7A331
CHINESTA, F: Finite element resolution of convection-diffusion equations with interior and boundary layers, 9A40
CHING, CY: Influence of turbulence parameters, Reynolds number, and body shape on stagnation-region heat transfer, 3A1061
CHINH, PHAM DUC: Improved bounds for the elastic moduli of perfectly-random composites, 6A414
- Macroscopic elastic and conductivity properties of perfectly random cell composites, 9A524
CHINNAKOTLA, RB: Parametric study of buoyancy-induced flow and heat transfer from L-shaped corners with asymmetrically heated surfaces, 5A1132
CHINNERY, AE: Motion of a rigid body with an attached spring-mass damper, 4A114
CHINNOCK, PS: Self-oscillation enhancement of impingement jet heat transfer, 10T1318
CHINNOV, EA: Enhancement of convecticeal heat transfer due to bubbles rising, 11A1220
CHINOSI, C: Shell elements as a coupling of plate and "drill" elements, 2A483
CHIOU, DAR-CHANG: Three-dimensional FE analysis of deep excavations, 10A683
CHIOU, JENQ-SHING: Periodic heat transfer in a vertical plate fin cooled by a forced convective flow, 4A1221
CHIOU, JM: Equivalent linear model of lead-rubber seismic isolation bearings, 11A154
- Refined model for base-isolated bridges with bilinear hysteretic bearings, 11A1405
CHIOU, KUO-CHING: Application of neural networks in self-tuning constant force control, 3A382
CHIOU, P: Effects of seawater absorption on fatigue crack development in carbon-epoxy EDT specimens, 4A674
CHIOU, P-L: Moisture-induced degradation of glass-epoxy filament-wound composite tubes, 10A798
CHIOU, S: Processing monitoring of carbon-phenolic composites using smart sensors, 1A589
CHIOU, S-T: Hodograph and the balancer of any frequency term of the shaking force of spatial mechanisms, 11A148
CHIOU, WEN-JIANN: Natural frequencies and critical velocities of fixed-fixed laminated circular cylindrical shells conveying fluids, 2A193
CHIOU, Y-J: Study on buckling of offshore pipelines, 8A517
CHIOU, YII-TAY: Application of two-refractive-index contouring on the contour difference of two compared specimens, 12A784
CHIOU, YUANG-CHERNG: Study on positioning accuracy of reciprocating friction drive system, 4A829
CHIOU, YUN SHUN: Three dimensional cutting force analysis in end milling, 6A580
CHIPMAN , R: Motion of a spacecraft with magnetic damper, 12T269
CHIPRICH, JM: Design and development of the WR-21 intercooled recuperated (ICR) marine gas turbine, 5A1032
CHIRIKJIAN, G: Evaluating efficiency of self-reconfiguration in a class of modular robots, 10A491
CHIRIKJIAN, GS: Closed-form primitives for generating locally volume preserving deformations, 5A1
CHIRILA, TV: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
CHIRITA, S: Spatial decay estimates for solutions describing harmonic vibrations in a thermoelastic cylinder, 1A157
- Spatial decay estimates in certain time-dependent problems of continuum mechanics, 3A8
- Saint-Venant's principle in linear thermoelasticity, 3A1167
- Spatial decay estimates of Saint-Venant type in generalized thermoelasticity, 7A501
CHIROIU, V: Double couple radiation pattern in acoustics - Part I: A nonlocal theory of radiation, 11A238
CHIRTULOV, VG: Influence of pigments on structural-mechanical properties of chemical fibers, 6T462
CHISALA , M: Tension development length of reinforcing bars embedded in high-strength concrete, 2A766
CHISKIS, A: Generalization of Cesaro's relation for plane finite deformations, 2A361
CHITKARA, NR: Near net shape spline forging: An experimental investigation and a simple upper bound analysis, 3A602
- Computer simulation to predict stresses and die loads during metal flow in incremental heading of shaped heads from cylindrical rods and some experiments, 3A597
- Analysis of external spline gear forming by an upper bound energy method, 9A692
- Upper bound analysis of near-net shaped forging of gear coupling form, 9A694
- Computer simulation to predict stresses, working pressures, and deformation modes in incremental forging of spur gear forms, 12A678
- Near-net shape forging of spur gear forms: An analysis and some experiments, 12A681
CHITTI, MS: Heat transfer correlation for condensation inside horizontal smooth tubes using the population balance approach, 12A1233
CHIU, AS: Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, 7A565
CHIU, C-H: Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, 5A399
CHIU, CHENG PING: Numerical study of the turbulent heat transfer in a motorized engine utilizing a two-boundary method-grid generation technique, 1A1225
- Transient natural convection heat transfer between concentric and vertically eccentric spheres, 7A1215
CHIU, CHENG-WEY: Study on compression transfer molding, 4A651
CHIU, CHIEN-ERH: Numerical simulation of transient hypersonic flow using the essentially nonoscillatory schemes, 9A1099
CHIU, CHING-SANG: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
- Forward coupled-mode propagation modeling for coastal acoustic tomography, 7A361
CHIU, CP: Transient natural convection between concentric and vertically eccentric spheres with mixed boundary conditions, 8A1083
CHIU, DS: Study on the polypropylene-high density polyethylene-styrene-butadiene-styrene block copolymer ternary blends - I: Composition, morphology, and properties of polypropylene/high density polyethylene-styrene-butadiene-styrene block copolymer blends, 7A589
CHIU, HH: Mechanics and Combustion of Droplets and Sprays, 11R44
CHIU, HUEI HUANG: Numerical investigation of multiple flame configurations in convective droplet gasification, 3A1227
CHIU, HUNG-CHIE: Estimation of site amplification from Dahan downhole recordings, 9A1384
CHIU, ING-TSAU: Navier-Stokes computations of full wing-body configuration with oscillating control surfaces, 5A996
CHIU, JER-MING: Shear-wave velocity of the sedimentary basin in the upper Mississippi embayment using S-to-P converted waves, 12A1361
CHIU, JJ: Intimal thickening under shear in a carotid bifurcation: A numerical study, 6A1333
CHIU, LT: Flexibility of TLD to high-rise building by simple experiment and comparison, 2A87
CHIU, TW: Application of photogrammetry in the study of the effects of sailboard fin flexibility, 7A580
CHIU, WK: Airworthiness of composite repairs: Failure mechanisms, 2A443
- Laminar boundary layer receptivity to transverse structural vibration, 3A212
CHIVERS, RC: Multiple scattering of ultrasound in suspensions, 2A221
- Feasibility of detecting pre-cracking fatigue damage in metal-matrix composites by ultrasonic techniques, 3A734
CHIZHIK, AA: Microtribological problems of physics and mechanics in smooth surface contact, 12T931
CHKHEIDZE, GA: Synthesis of algorithms for controlling dynamic systems with constrained phase coordinates and control function, 5T311
CHMIELA, J: Tribological properties of aluminum alloys with reinforcing phase (Polish), 6A840
CHMIELEWSKA, D: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
CHMURNY, R: Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), 11A149
CHO , MAENGHYO: Efficient higher-order shell theory for laminated composites, 9A594
CHO, CHAHNGMIN: Efficient assumed strain element model with six dof per node for geometrically nonlinear shells, 5A519
CHO, DONG KWON: Constrained optimization approach to resolving manipulator redundancy, 10A479
CHO, DONG WOO: Exploration of a mobile robot based on sonar probability mapping, 9A450
CHO, DW: Hybrid-type active vibration isolation system using neural networks, 11A155
CHO, HH: Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part II: On the exposed surface, 5A1159
- Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part I: Within holes and on the back surface, 5A1158
CHO, HS: Fuzzy self-learning control method with application to hydroforming processes, 5A565
CHO, JONG RAE: Optimal positioning of heating lines in a compression molding die using the BEM, 3A639
CHO, JR: A priori error estimations of hp-FE approximations for hierarchical models of plate- and shell-like structures, 12A604
CHO, MAENG HYO: Static and dynamic analysis of composite box beams using large deflection theory, 1A592
- Aeroelastic analysis of multibladed hingeless rotors in hover, 4A294
CHO, MAENGHYO: Postprocess method using displacement field of higher order laminated composite plate theory, 7A644
- Postprocess method using a displacement field of higher-order shell theory, 9A595
CHO, MANN: Evaluation of a higher-order bounded convection scheme: 3D numerical experiments, 1A1221
CHO, MENGU: Ionosphere ionization effects on sheath structure around a high-voltage spacecraft, 5A251
CHO, N: Measurement of surface roughness with small waviness by contact stylus instrument correcting specimen orientation, 1A863
- Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - 1st report: Theoretical foundation, 3A739
CHO, NAHMGYOO: Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - Second report: Simulation and experimental verification, 7T894
CHO, WON-MAN: Numerical and experimental study on the nonlinear behavior of laminated composite structural components, 2A475
CHO, YI: Flow-pressure drop measurement and calculation in a tapered femoral artery of a dog, 6A1365
CHO, YONG-SIK: Runup of solitary waves on a circular island, 4A261
CHO, YONGSEUNG: Validation of a multipoint approach for modeling spin aerodynamics, 5T1021
CHO, YOUNG: Higher-order, partial hybrid stress, FE formulation for laminated plate and shell analyses, 2A482
- Multi-mesh, preconditioned conjugate gradient solver for eigenvalue problems in FE models, 4A35
- Numerical algorithms for solutions of large eigenvalue problems in piezoelectric resonators, 9A651
CHO, YOUNG H: Design of optimal four-wheel steering system, 3A363
- Stability analysis of the human controlled vehicle moving along a curved path, 7A408
CHO, YOUNHO: Boundary element solution for a mode conversion study on the edge reflection of Lamb waves, 9A273
CHO, YW: Numerical analysis of molten metal shape in cold crucibles by 3D FEM, 8A1170
CHOBOTOV, VA: Orbital Mechanics, Second Edition, 7N8
CHOI , CHANG-KOON: Transition membrane elements with drilling freedom for local mesh refinements, 8A48
CHOI , HYUN-TAE: Calculation of stress intensity factors by the surface integral method, 8A618
CHOI, B: Modeling and fuzzy logic control of an active reaction compensating platform system, 3A819
CHOI, BRIAN S: Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723
CHOI, BUMKYOO: Thermal expansion analysis for differential pressure transducers by the LIGA process, 6A352
CHOI, BYUNG-YOUNG: Metallographic study on rolling contact fatigue of 0.44%C - 1.71% Mn induction-hardened bearing steels, 10A981
CHOI, CHANG-KOON: Tension stiffening model for planar reinforced concrete members, 7A945
- Adaptive control of spatial-temporal discretization error in FE analysis of dynamic problems, 8A10
- Elasto-plastic noneconforming solid element with variable nodes, 8A14
- Versatile variable-node flat-shell element, 10A37
- Three-dimensional adaptive mesh refinement using variable-node solid transition elements, 10A26
CHOI, CK: Effective four node degenerated shell element for geometrically nonlinear analysis, 5A32
- Direct-search approach to optimum spiral column design, 9A911
CHOI, CY: Numerical investigation of conjugate heat transfer from a flush heat source on a conductive board in laminar channel flow, 1A1181
- Convective heat transfer in porous and overlying fluid layers heated from below, 4A1168
- Conjugate mixed convection in a channel: Modified five percent deviation rule, 7A1218
CHOI, DEOK-KEE: Application of numerical Green's functions in the design of plates using symbolic computation, 12A599
CHOI, DOCHUL: Investigation of high-order upwinded differencing for vortex convection, 7A48
CHOI, DONG-HOON: Design optimization of the taper-flat slider positioned by a rotary actuator, 5A824
CHOI, EUN SUK: Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, 12A1300
CHOI, HG: Hybrid numerical method for Navier-Stokes equations based on simple algorithm, 1A1222
CHOI, HR: Stiffness analysis and control of multi-fingered robot hands, 5A359
CHOI, HYUNG JIP: Analysis of cracking in a layered medium with a functionally graded nonhomogeneous interface, 12A558
CHOI, JAE-WOONG: Spherical beam-forming and music methods for the estimation of location and strength of spherical sound sources, 2A240
- Estimation of locations and strengths of broadband planar and spherical noise sources using coherent signal subspace, 3A296
CHOI, JEONG-SEOK: Inverse thermoelastic problem in an isotropic plate associated with a piezoelectric ceramic plate, 8A1223
CHOI, JIN HO: Delamination-free and high efficiency drilling of carbon fiber reinforced plastics, 4A483
CHOI, JM: Heat (mass) transfer in a serpentine channel with right-angled turns, 8T1072
CHOI, KEEYOUNG: Identification of impact force and location using distributed sensors, 6A192
CHOI, KK: Configuration design sensitivity analysis of nonlinear structural systems with elastic material, 11A498
- Design sensitivity analysis of truss structures with elastoplastic material, 11A785
CHOI, KWANG-YOON: Acceleration of iterative algorithms on highly-clustered grids, 9A86

CHOI, KYUNG K: Continuum approach for second-order shape design sensitivity of elastic solids with loaded boundaries, 1A868
- Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723
CHOI, M: Parametric analysis of radiative-convective heat transfer around a circular cylinder in a cross flow using the finite volume radiation solution method, 7A1257
CHOI, MANSOO: Conjugate heat transfer and particle transport in outside vapor deposition process, 1A1165
CHOI, MIN-SEOG: Study on the optimization of the cylindrical lapping process for engineering fire-ceramics (Al_2O_3) by the statistical design method, 3A420
- Simulation for the prediction of surface-accuracy in magnetic abrasive machining, 3A624
- Development and FE analysis of the finishing system using rotating magnetic field, 4A654
CHOI, MY: Laser-induced incandescence calibration via gravimetric sampling, 11A1300
CHOI, NS: Fracture behavior of unidirectional commingled-yarn-based carbon fiber-polyamide 6 composite under three-point bending, 11A666
CHOI, S: Effects of Dean vortex pairs on surface heat transfer in curved channel flow, 3A1060
- Mixed convection in straight and curved channels with buoyancy orthogonal to the forced flow, 11A1132
CHOI, S-H: Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load, 4A314
CHOI, SEI-BUM: Robust throttle control of automotive engines: Theory and experiment, 9A436
CHOI, SEOK KI: Evaluation of a higher-order bounded convection scheme: 3D numerical experiments, 1A1221
CHOI, SEUNG-BOK: Experimental control of a single-link flexible arm incorporating electrorheological fluids, 1T433
- Analysis of a short squeeze-film damper operating with electrorheological fluids, 2A1059
- Hybrid actuator scheme for robust position control of a flexible single-link manipulator, 11A391
CHOI, SG: Root loci of H_{2g} optimal control: A polynomial approach, 11A286
CHOI, SK: Finite element code for fracture propagation analysis within elasto-plastic continuum, 6A11
CHOI, ST: Study of fatigue damage and fatigue life of composite laminates, 8A587
CHOI, SUN-HO: Dynamic stress intensity factors K_I, K_{II} and dynamic crack propagation characteristics of orthotropic material, 5A662
CHOI, SUNG-UK: Modeling of 1D turbidity currents with a dissipative-Galerkin FEM, 4T921
CHOI, WOOYOUNG: Nonlinear evolution equations for 2D surface waves in a fluid of finite depth, 1T224
- Weakly nonlinear internal waves in a two-fluid system, 11A202
CHOI, YOUNG-GU: Study of the correlation between surface roughness and cutting vibrations to develop an on-line roughness measuring technique in hard turning, 7A746
CHOKANI, N: Performance of 3D compressible Navier-Stokes codes at low mach numbers, 12A1078
CHOKRI, K: Uniaxial tensile respone of microfiber reinforced cement composites, 4A489
CHOLEWICKI, J: Relationship between muscle force and stiffness in the whole mammalian muscle: A simulation study, 5A1368
CHOMIAK, J: Flame propagation along a fine vortex tube, 5A1219
CHONA, R: Application of high resolution geometric moire method to fracture problems, 5T669
CHOO, BS: Required rotations and moment redistribution for composite frames and continuous beams, 1A918
- Continuous-discrete approach to the free vibration analysis of stiffened pierced walls on flexible foundations, 3A150
- Composite connections in steel and concrete - Part 2: Moment capacity of end plate beam to column connections, 8A766
CHOPIN, T: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
CHOPRA, AK: Dynamics of Structures: Theory and Applications to Earthquake Engineering - Int Series in Civil Eng and Eng Mech, 11R11
- Dam-foundation rock interaction effects in frequency-response functions of arch dams, 4A1329
- Earthquake analysis of arch dams including dam-water-foundation rock interaction, 4A1330
- Modal analysis of linear dynamic systems: Physical interpretation, 10A124
- Dam-foundation rock interaction effects in earthquake response of arch dams, 10A1429
CHOPRA, I: Aeroelastic analysis of a composite bearingless rotor in forward flight using an improved warping model, 1A1131
- Aeroclastic optimization of a helicopter rotor with composite coupling, 5A1068
- Prediction of tail rotor thrust and yaw control effectiveness, 6A1040
- Aeroelastic optimization of an advanced geometry helicopter rotor, 7A1179
- Application of smart structures technology to rotorcraft systems, 8T324
- Aeroclastic optimization of a helicopter rotor with two-cell composite blades, 9A1242
CHOQUET, I: Vibrational nonequilibrium modeling using direct simulation - Part I: Continuous internal energy, 1A1023
CHORRO, C: Application of the calorimetry to studies of colloidal phenomena: Enthalpies of micellization and enthalpies of adsorption of zwitterionic surfactants onto silica gel, 4A896
CHORRO, M: Application of the calorimetry to studies of colloidal phenomena: Enthalpies of micellization and enthalpies of adsorption of zwitterionic surfactants onto silica gel, 4A896
CHOTARD, T: Experimental determination of TSAI failure tensorial terms F_{ij} for unidirectional composite materials, 5A643
CHOU, C-S: Nonlinear opto-electromechanics and photodeformation of optical actuators, 11A738
CHOU, CH: Anisotropic stress resultant constitutive law for sheet metal forming, 7A729
CHOU, CHUNG-REN: Analysis of forces due to irregular waves exerted on a ship near a harbor entrance, 7A1047
CHOU, CS: Modal precession of a rotating hemispherical shell, 11A123
CHOU, CT: Effects of external loading of fiber on fiber-matrix interfacial shear strength, 5A641
CHOU, FC: Numerical studies of non-Newtonian channel flow and heat transfer enhancement for electronics modules, 3T1062
CHOU, FS: Optimization of linear segmented circular Mindlin plates for maximum fundamental frequency, 11A730
CHOU, G-H: Influence of inner-wall motion on the linear stability of natural convection in a tall vertical annulus, 3A1051
CHOU, JH: Flow developments above 50-deg sweep delta wings with different leading-edge profiles, 1A1102
- Vertically oscillating plate disturbing the development of a boundary layer, 2A949
- Swirling flows in circular to rectangular transition ducts, 10A1148
- Flopping phenomenon of flow behind two plates placed side-by-side normal to the flow direction, 10A1164
CHOU, JYH-HORNG: Stability robustness of the LQG system with noise uncertainty and nonlinear-linear time-varying plant perturbations, 9A398
CHOU, PEI-YUAN: 50 years of turbulence research in China, 2T983
CHOU, RU-LING: 50 years of turbulence research in China, 2T983
CHOU, S-H: Numerical analysis of a mixed FEM for a flow-transport problem, 7A1366
CHOU, SHOU-CHIEN: Plastic deformation of solder joints in pin grid arrays subjected to thermal stress, 3A1183
CHOU, SIAW MENG: Accuracy of some codes of practice in predicting the load capacity of cold-formed columns, 10A900
CHOU, SO-HSIANG: Characteristics - Galerkin and mixed FE approximation of contamination by compressible nuclear waste-disposal in porous media, 9A1432
CHOU, T-W: Innovative Processing and Characterization of Composite Materials, NCA-Vol 20-AMD-Vol 211 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA, 4N16
CHOU, TSU-WEI: Closed-form solutions of the in-plane effective thermal conductivities of woven-fabric composites, 3A1115
- Closed-form solution of the transverse effective thermal conductivity of woven fabric composites, 6A1123
CHOU, YI-SHYONG: New systematic design of high-gain feedback for nonlinear systems with unmatched uncertainties, 5A321
- Two dof controllers for multivariable model-matching systems: Application to a continuous stirred tank reactor, 8A337
CHOU, YUAN-FANG: Effects of stingers on receptance function measurements, 10A206
CHOUCHAOUI, BA: Behavior of longitudinally aligned corrosion pits, 8A594
CHOUDHURY, C: Economic design of a rock bed storage device for storing solar thermal energy, 1A1427
- Performance and cost analysis of two-pass solar air heaters, 2A1274
- Comparative performance of coriander dryer coupled to solar air heater and solar air-heater-cum-rockbed storage, 10A1323
CHOUDHURY, IA: Plastics and their machining: A review, 6A574
CHOUEIRI, EY: System optimization of ablative pulsed plasma thrusters for stationkeeping, 7A1346
- Microinstabilities in a 10-kilowatt self-field magnetoplasmadynamic thruster, 8A1294
CHOW, CHUEN-YEN: Improvement of transonic wing buffet by geometric modifications, 1T263
- Stability of leading-edge vortex pair on a slender delta wing, 11A986
CHOW, CL: Elimination of spurious pressure and kinematic modes in biquadratic nine-node plane element, 4A29
CHOW, CLK: Damage strain energy release rate Y, 1A829
CHOW, E: Systems design of a satellite link protocol, 7A303
CHOW, JS: Numerical and experimental study of a wingtip vortex in the near field, 2A1018
CHOW, LC: Free expansion study of liquid nitrogen, 1A1061
- Effect of spray characteristics on spray cooling with liquid nitrogen, 3A1084
- Homogeneous nucleation of vapor by depressurization at constant volume, 4A1191
- Analytical method to determine the liquid-film thickness produced by gas-atomized sprays, 8T1135
CHOW, P: Natural extension of the conventional finite volume method into polygonal unstructured meshed for CFD application, 7A30
CHOW, PL: Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, 5A154
- Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, 5A155
CHOW, TAI L: Classical Mechanics, 9R2
CHOW, WK: Simulation of forced-ventilation fires, 1A1341
CHOW, WT: Finite element calculation of stress intensity factors for interfacial crack using virtual crack closure integral, 5A668
CHOW, YK: Numerical modeling of negative skin friction on pile groups, 10A687
CHOWDARY, TVR: Finite element flutter analysis of composite skew panels, 4A292
CHOWDHURY, AR: Coupled nonlinear system in (2 + 1) dimension and overturning solitons, 10T262
CHOWDHURY, MR: Further considerations for nonlinear FE analysis, 1A889
CHOWDHURY, S: Simplified approach for control of rotating stall - Part I: Theoretical development, 4A1112
- Simplified approach for control of rotating stall - Part 2: Experimental results, 4A1121
CHOY, CL: Dynamic effect of laminated beam subjected to transverse impact (Chinese), 4A151
CHOY, FK: Steady-state and transient dynamic simulation of a continuous foil bearing, 8T819
- Vibration signature analysis of a faulted gear transmission system, 8A154
- Dynamic analysis and experimental correlation of a gear transmission system, 9A222
CHPOUN, A: Rarefied gas flow simulation based on quasigasdynamic equations, 4A1001
- Reconsideration of oblique shock wave reflections in steady flows - Part 1: Experimental investigation, 4A266
- Numerical confirmation of the hysteresis phenomenon in the regular to the Mach reflection transition in steady flows, 5T222
CHRISMAN, BM: Development of the 2400G stationary gas engines, 5A1225
CHRISOCHOIDES, N: Multithreaded model for the dynamic load-balancing of parallel adaptive PDE computations, 12A78
CHRISTAKOS, G: Boundary condition sensitivity analysis of the stochastic flow equation, 5A1335
CHRISTENSEN, C: Empirical stochastic silo load model - III: Reliability applications, 1A932
- Empirical stochastic silo load model - II: Data analysis, 1A931
CHRISTENSEN, CD: Elastic postbuckling with nonlinear constraints, 11A537
CHRISTENSEN, DH: Velocity structure beneath College Station Alaska from receiver functions, 11A1360
CHRISTENSEN, RN: Performance evaluation of a generator-absorber heat-exchange heat pump, 11A1234
CHRISTIANSEN, AD: Probabilistic analysis of manipulation tasks: A conceptual framework, 7A461
CHRISTIANSEN, PL: Kink-dynamics of the perturbed sine-Gordon equation, 10A107
CHRISTIANSEN, S: Topographic investigation of the wear resistance of PTFE seals in sliding contact with ceramic materials, 8T798
CHRISTIE , I: Effects of variable viscosity and viscous dissipation on the flow of a third grade fluid in a pipe, 5A911
CHRISTIE, JR: Chaos in an anharmonic oscillator, 5A89
CHRISTODOULIDES, P: Spatial bifurcations of interfacial waves when the phase and group velocities are nearly equal, 1A105
CHRISTOFIDES, PD: Feedback control of two-time-scale nonlinear systems, 10A419
CHRISTOU, A: Surface-Interface and Stress Effects in Electronic Material Nanostructures, Volume 405, 11N10
CHROBAK, D: Stepwise martensitic transformations in NiTi alloy studied by the DTA method (Polish), 9A1282
CHRONOPOULOS, AT: Efficient iterative methods applied to the solution of transonic flows, 7T1076
CHRYSIKOPOULOS, CV: Modeling of colloid and colloid-facilitated contaminant transport in a 2D fracture with spatially variable aperture, 4A1293
CHRYSOCHOOS, A: Energy balance of thermoelastic martensite transformation under stress, 11A1243
CHRYSSANTHOPOULOS, MK: Probabilistic imperfection sensitivity analysis of axially compressed composite cylinders, 2A445
- Reliability analysis for highway bridge deck assessment, 3A802
- Asymmetric elastic buckling of axially compressed conical shells with various end conditions, 4A577
CHRZASZCZ, JR: Monitoring data stream in a visual system, 1A75
CHU , CHIAKUN: Coaxial interactions of two vortex rings or of a ring with a body, 3A892
CHU , JINGYUN: Hopf bifurcation of mechanically and electrically coupled nonlinear dynamical systems (Chinese), 3A100
CHU, C-L: Numerical evaluation for stability and performance of an electronic damping device for structural vibration control, 1A884
CHU, CH: Material-air-composite cell, 8A1108
- Thermal protection characteristics of a vertical rectangular cell filled with PCM-air layer, 8A1109
CHU, CHANG-HUNG: Finite-element analysis of sheet metal forming processes, 6A565
CHU, CHIA-REN: Random sweeping decorrelation hypothesis stratified turbulent flows, 2A987
CHU, CHIN-CHOU: Head-on collision of two coaxial vortex rings: Experiment and computation, 1A988
CHU, CHIN-KU: Embedding of Lipschitz stability in flows, 9T1170
CHU, CK: Design of plane diffusers in turbulent flow, 8A991
CHU, DN: Evolutionary structural optimization for problems with stiffness constraints, 11A773
CHU, J: Strain softening and shear band formation of sand in multi-axial testing, 9T661
CHU, LIANGCHENG: Time series analysis for load identification by using impulse response function (Chinese), 4A99
CHU, MC: Damage healing and strengthening behavior in intelligent mullite-SiC ceramics, 2A661
CHU, SH: Comparative testing of pulsatile impeller total heart and sarns nonpulsatile roller as biventricular assist device in pigs, 11A1478
CHU, SY: Time-delay effect and its solution for optimal output feedback control of structures, 12A417
CHU, TAI-MING: Stress distribution in the ankle-foot orthosis used to correct pathological gait, 6A1376
CHU, VINCENT H: General integral formulation of turbulent buoyant jets in cross-flow, 6A976
CHU, WERNER K-H: Slip flow over rough wavy wall, 12T1113
CHU, YA: Homogeneous nucleation of a solid-solid dilatational phase transformation, 8A508
CHU, YC: Determination of fiber-matrix interphase moduli from experimental moduli of composites with multi-layered fibers, 2A430
- Ultrasonic evaluation of fatigue damage in metal matrix composites, 4A779
- Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, 5A634
CHU, YL: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
CHUA, HT: Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design, 11A1229
CHUA, KH: Building response due to subway train traffic, 3A149
- Unified model for fracture mechanics, 10A767
CHUAH, KB: Information design for SAIL 1, 7A472
CHUANG, C-H: LQR for state-bounded structural control, 9A426
CHUANG, CC: Supersonic base-flow computation using higher-order closure turbulence models, 12A1068
CHUANG, MIN-TE: Fabrication of T-shaped structural composite through resin transfer molding, 4A650
CHUANG, SH: Decomposing solid models into depression and protrusion features, 4A858
CHUBB, JP: Assessment of weld mismatching, 8A627
CHUBRIKOVA, VV: Kinetics of fatigue development of interacting plane cracks in a 3D body (Russian), 3A674
CHUCHEEPSAKUL, S: Large deflection of simple variable-arc-length beam subjected to a point load, 8A475
CHUDAKOV, IB: Surface treatment effect on bulk magnetoelastic properties of high damping Fe-based alloys, 9A991
CHUDANOV, VV: Operator-splitting schemes for the stream function-vorticity formulation, 2A33
CHUDYBA , K: Limit slendernesses of axially compressed columns, 1A644
CHUDZIKIEWICZ, A: Study on the relation between the traveling speed and forces within the wheel-rail

contact zone depending on the state of track maintenance, 3A163
- Problem of choosing the creep forces model in rail vehicle dynamics, 3A161
CHUE, RS: Transition from fast deflagration to detonation under the influence of periodic longitudinal perturbations, 3T209
CHUGUNOV, VA: Contact melting by a non-isothermal heating surface of arbitary shape, 2A1130
CHUHAN, ZHANG: Time domain procedure of FE-BE-IBE coupling for seismic interaction of arch dams and canyons, 5A1334
CHUI, GK: Flow distribution and pressure drop in diffuser-manifold flows, 5A1227
CHUI, TCP: Heat capacity of confined helium very near the lambda point, 7A302
CHUJO, Y: Machinability of sintered carbons based on the correlation between tool wear rate and physical and mechanical properties, 12A943
CHUKKAPALLI, G: Structural parameters and prediction of adverse pressure gradient turbulent flows: An improved k-ε model, 5A946
CHUMACHENKO, EN: Friction laws in metal forming, 10T958
CHUN, HEOUNG-CHUN: Thermoelastoplastic analysis of a filamentary metal matrix composite, 8A1231
CHUN, S-B: Vibration analysis of shaft-bladed disk system by using substructure synthesis and assumed modes method, 7A208
CHUN, Y-G: Passivation effects on crack closure in the fatigue crack propagation of a peak-aged Al-Li-Zr alloy in NaCl and Na_2SO_4 solutions, 1A760
CHUNDURU, SJ: Flap-lag-torsion stability in hover and forward flight with 3D wake, 6A222
CHUNG BO, FENG: Calibration procedure for a system of two coordinated manipulators, 4A410
CHUNG, BTF: Mixed convection in a vertical channel with heated blocks, 1T1203
- Turbulent near-wall model on convective heat transfer from an abrupt expansion tube, 6A1073
CHUNG, CHAN-HONG: Simulation of overexpanded low density nozzle plume flow, 2A962
CHUNG, DDL: Short-carbon-fiber-reinforced epoxy as a piezoresistive strain sensor, 7T900
- Piezoresistive carbon filament polymer-matrix composite strain sensor, 11T350
CHUNG, GI-TAEK: Elasto-plastic nonconforming solid element with variable nodes, 8A14
CHUNG, GT: Direct-search approach to optimum spiral column design, 9A911
CHUNG, HEUNG-JIN: Adaptive control of spatial-temporal discretization error in FE analysis of dynamic problems, 8A10
CHUNG, HH: Seismic, Shock, and Vibration Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N15
- Recent Advances in Solids and Structures, PVP-Vol 321-NE-Vol 18 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N19
CHUNG, HUNG-YUAN: Covariance controller design incorporating optimal estimation for nonlinear stochastic systems, 12A373
CHUNG, I: Can the compressive response of fiber-reinforced composites be modeled by means of layered arrays?, 11A476
CHUNG, IJ: Field-emitter cathode for acceleration sensors, 6T349
CHUNG, JH: Moving gas front effects on heat pipe transient behavior, 6A1151
CHUNG, JN: Numerical models for two-phase turbulent flows, 6A998
- Experimental examination of forced-convection subcooled nucleate boiling and its application in microgravity, 8T1128
CHUNG, K: Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, 8A23
- Coefficient of permeability from AC electroosmosis experiments - II: Results, 10A665
- Coefficient of permeability from AC electroosmosis experiments - I: Theory, 10A664
CHUNG, KEE-CHIANG: Effect of surface deformations on thermal contact conductance of coated junctions, 3A1112
CHUNG, KW: Perturbation-incremental method for strongly nonlinear oscillators, 8A90
CHUNG, LK: Determination of optimal cutting parameters in wire electrical discharge machining, 2A563
CHUNG, LL: Optimal discrete-time structural control using direct output feedback, 10A885
- Time-delay effect and its solution for optimal output feedback control of structures, 12A417
CHUNG, MK: Evolution of initially uniform shear flow through a nearly 2D 90° curved duct, 1T1058
CHUNG, MYUNG JIN: Constrained optimization approach to resolving manipulator redundancy, 10A479
CHUNG, MYUNG KYOON: Computation of the turbulent flow field around an aerofoil by k-ε-γ model in a non-staggered, C-type single-grid system, 4A1090
CHUNG, RILEY M: Estimation of liquefaction potential by in situ methods, 3A574
CHUNG, SH: Numerical analysis of molten metal shape in cold crucibles by 3D FEM, 8A1170
- Observation of near-planar spinning premixed flames in a sudden expansion tube, 9A1312
- Experiment on the breakup of impinging droplets on a hot surface, 12A1090
CHUNG, SUK HO: Transport Phenomena in Thermal Engineering - Proc of 6th Int Symp, Seoul, Korea, 9N29
CHUNG, TAE HOON: Growth behavior of saw-toothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), 9A507
CHUNG, WANKYUN: Mobility analysis of spatial 4- and 5-link mechanisms of the RS class, 11A825
- New resolution scheme of the forward kinematics of parallel manipulators using extra sensors, 12A444
CHUNG, WK: Stiffness analysis and control of multi-fingered robot hands, 5A359
CHUNG, YEN-LING: Stress singularity of mode-I crack propagating with transonic speed, 4A753
- Dynamic microstructural FEM for granular structures, 8A21
CHUNG, YOOSEOK: Influence of a piston ring assembly design on blowby and friction in a SI engine, 8A1287
CHUONG, CJ: Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, 11A1461
CHUPRYNA, SV: Theoretical-experimental method for determining the stiffness and dissipative characteristics of elastodamping elements in the frequency domain, 10A137
CHURBANOV, AG: Operator-splitting methods for the incompressible Navier-Stokes equations on non-staggered grids - Part 1: First-order schemes, 2A895
- Operator-splitting schemes for the stream function-vorticity formulation, 2A33
CHURCH, P: Numerical study of ductile void growth under dynamic loading conditions, 8A634
CHURCHILL, SW: Review of measurements of heat flux density applicable to the field of combustion, 10A1382
CHUTIMA, S: Effect of pitch distance, row spacing, end distance and bolt diameter on multi-fastened composite joints, 6A446
- Stress distributions in multi-fastened composite plates, 12A7
CHVATAL, P: Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, 10A746
CHYLEWSKA, B: Use of microfibers for the manufacture of fine yarns using rotor and ring spinning machines, 6T393
- Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, 6A178
- Assessment of the dynamic tension in open end spinning and parameters of yarns, 6A177
CHYNOWETH, S: Simulated non-Newtonian lubricant behavior under extreme conditions, 4A1126
CHYU, M: Temperature measurement of a curved surface using thermographic phosphors, 4A1128
CHYU, MK: Surface heat transfer from a three-pass blade cooling passage simulator, 5A1146
- Heat transfer on the base surface of 3D protruding elements, 12A1211
CHYU, WJ: Shock-wave and boundary-layer interactions with bleed through rows of holes, 8A944
CHYUAN, SHIANG-WOEI: Thermomechanical response analysis of lithographic mask structure using FEM, 3A644
CIA, XIAN'E: Boiling point and molar enthalpy of vaporization of fluorint FC-70 $N(C_5F_{11})_3$: Determined by static-sample and DSC methods, 1A1156
CIACH, R: Laser microstructure modification of metallic materials, 9A730
CIALKOWSKI, MJ: Numerical analysis of stability of transient inverse problem for 1D heat transfer equation, 3A1124
CIAMPI, V: Design of yielding or friction-based dissipative bracings for seismic protection of buildings, 1A1392
- Mixed formulation of nonlinear beam FE, 3A528
CIARLETTA, M: Results on thermoelasticity for dielectric materials with voids, 2A1151
- General theorems and fundamental solutions in the dynamical theory of mixtures, 2A3
- Results on thermoelasticity for porous piezoelectric materials, 7T1288
CIBERT, J: Piezoelectric effect in strained CdTe-based heterostructures, 6A513
CICCOLI, MC: Numerical computations of steady homenthalpic non-equilibrium flows, 1A25
CICHON, C: Stability of Structures by FEM, 2R22
CICOLANI, LS: Simulation of the dynamics of helicopter slug load systems, 6A1041
CID, M: Three-dimensional analysis of the angular momentum of a pole-vaulter, 12A1496
CIELASZYK, D: New approach to halo orbit determination and control, 8A318
CIESIELSKI, R: Dynamic investigation of prefabricated buildings with bearing concrete walls subjected to quarry blasts (Polish), 3A812
- Damping of vibration in precast buildings with bearing concrete walls, 3A151
- Damping of vibration in precast buildings with bearing concrete walls, 9A951
CIESLICKI, K: Effect of inertia on flows in tubes with periodic step changes in diameter, 9A1152
- Preferential flow paths in porous structures - II: Experiments, 9A1377
- Preferential flow paths in porous structures - I: Numerical simulation, 9A1376
CIESLOK, J: "Convective" flat plate collectors and their applications, 3A1363
CIESZKO, M: Analysis of interaction of impulse-like pressure wave in a fluid with deformable layer of porous material, 3A1263
CIHAN, E: Equation for laminar flow heat transfer for constant heat flux boundary condition in ducts of arbitary cross-sectional area, 3T1025
CIMATTI, G: Regularization and symmetry breaking for the thermistor problem with the Thomson effect, 2A1150
CIMETIERE, A: Problems about elastic-plastic post-buckling, 8A501
CIMMELLI, VA: Hyperbolic heat conduction with variable relaxation time, 6A2
CINTRA JR, JS: Orthotropic closure approximations for flow-induced fiber orientation, 4A1005
CIOBANU, GH: Thermodynamics of second sound in materials with memory, 11A3
CIOFALO, M: Investigation of flow and heat transfer in corrugated passages - I: Experimental results, 3A1149
- Investigation of flow and heat transfer in corrugated passages - II: Numerical simulations, 3A1029
CISILINO, A: Application of a weight function based method to assess partially closed cracks, 12A771
CISKOWSKI, RD: Using the BEM to investigate the wave propagation in a viscoelastic-acoustic system, 3A51
CIUCCI, A: Analysis of ignition and flame spreading in solid rocket motor star slots, 4A1259
CIZELJ, L: Risk-based steam generator lifetime optimization, 1A773
CIZMAS, PGA: Computation of steady and unsteady viscous flows using a simultaneously coupled inviscid-viscous interaction technique, 1A999
- Experiments and analysis for a gust generator in a wind tunnel, 7A1199
CLAERBOUT, J: Lateral prediction for noise attenuation by t-x and f-x techniques, 3A1291
CLAES, L: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $TGF\beta$-release in response to cyclic strain, 5A1373
CLAES, LE: Osteonal structure better predicts tensile strength of healing bone than volume fraction, 2A1286
- Influence of varying muscle forces on lumbar intradiscal pressure: An *in vitro* study, 8A1416
CLAISSE, PA: Corrosion measurements on reinforcement in silica fume concrete, 2A591
CLANCY, P: Simple design tools for pile raft foundations, 12A653
CLANET, C: "Tulip flame" phenomenon, 9A1308
CLARIDGE, DE: Building energy use prediction and system identification using recurrent neural networks, 3A1158
- Energy impact of air leakage through insulated walls, 3A1161
CLARK, A: Further observations of early fatigue crack development, 11A644
CLARK, AH: Kinetics of biopolymer gelation: Implications of a cascade theory description for the concentration, molecular weight, and temperature dependences of the shear modulus and gel time, 4A878
CLARK, AV: Fatigue load monitoring in steel bridges with Rayleigh waves, 8A696
CLARK, N: Transient chassis cycles for heavy duty trucks and tractors, 3T380
- Hartmann wave front sensor studies of dynamic organized structure in flowfields, 4A1131
CLARK, NH: Local phase velocity measurements in plates, 4A233
- Non-destructive testing of honeycomb sandwich structures using elastic waves, 4A234
CLARK, NN: Numerical uncertainty in heat conduction calculations for a tube immersed in a fluidized bed, 4A1212
- Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
- Modeling of the transient heat transfer across a heat transfer tube in a bubbling fluidized bed, 8T1315
CLARK, PJ: Wave and current forces on a vertical cylinder free to surge and sway, 5A223
CLARK, RL: Adaptive feedforward modal space control, 3A282
- Moving away from collocated control, 7A916
CLARK, RM: Explicit mathematical models of distribution storage water quality, 2A1277
CLARK, RN: Control System Dynamics, 10R12
CLARK, RP: Concentration measurements in a self-excited jet, 12A1130
CLARK, SD: Fatigue behavior of polymer composite sandwich beams, 6A605
CLARK, T: Remarks on domain-transition problems, 3A11
CLARKE, AR: Novel technique for determining the 3D spatial distribution of glass fibers in polymer composites, 3A499
CLARKE, BG: Practical, economical and precise volume change measurement device, 2T519
CLARKE, JL: Structural Design of Polymer Composites - Eurocomp Design Code and Handbook, 10N25
CLARKE, MP: Experimental techniques for the investigation of the effects of impact damage on carbon-fiber composites, 5A644
- Specialized composite plate element for problems of delamination buckling and growth, 7A43
CLARKE, SR: Mixing induced meridional motion of modons, 8A1359
CLARKE, TC: Lifted flames and the effects of inhibitors, 2A1184
CLAUNCH, SD: Observations of a planar jet subjected to large-amplitude, low-frequency disturbances, 4T1068
CLAUS, RO: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222
- Sapphire optical fiber-based interferometer for high temperature environmental applications, 1A1298
- Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342
- Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882
- Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, 7A884
CLAVIN, P: Stability and nonlinear dynamics of 1D overdriven detonations in gases, 7A281
CLAYTON, BR: Prediction of turbulent swirling flows in axisymmetric annuli, 2A988
CLAYTON, P: Fatigue of fillet welded A515 steel, 9A759
CLAYTON, WT: Using aural (audible) information generated directly from conventional NDE technology signals to aid the inspector in defect detection and discrimination, 7A893
CLEASBY, JL: Temperature effects on flocculation kinetics using FE(III) coagulant, 6T941
CLEGHORN, WL: Accurate analysis of free vibration of open circular cylindrical shells, 6A141
CLELAND, JH: What does the pitting resistance equivalent really tell us?, 9A770
CLEMENS, J: Numerical modeling of materials processing in microwave furnaces, 8A999
CLEMENT, P: Invertibility of mappings arising in 2D grid generation problems, 8A55
CLEMENTS, DL: Periodic array of staggered planar cracks in an anisotropic elastic medium, 9A830
- Hypersingular integral equations for multiple interacting planar cracks in an elastic layered material under antiplane shear stress, 9A792
CLEMENTS, L: Effects of axial temperature gradients in the wall of a detonator delay element, 5A1251
CLERMONT, J-R: Calculation of fully developed flows of complex fluids in pipes of arbitrary shape, using a mapped circular domain, 3A951
CLERMONT, JR: Numerical simulation of complex flows of non-Newtonian fluids using the stream tube method and memory integral constitute equations, 2A389
- Numerical simulation of viscoelastic complex flows using the stream-tube method and optimization algorithms, 4A966
CLESS, CM: Effect of time marching schemes on predictions of oscillatory natural convection in fluids of low Prandtl number, 11A1158
- Effect of time varying thermal boundary conditions on oscillatory natural convection of a low-Prandtl-number fluid, 12A1212
CLEVELAND, RO: Time-domain modeling of finite-amplitude sound in relaxing fluids, 12A313
CLEVER, RM: Standing and traveling oscillatory blob convection, 2A880
- Three-dimensional convection driven by centrifugal buoyancy, 4A1162
- Three-dimensional convection in the presence of strong vertical magnetic fields, 8A996
CLIFF, EM: Time-optimal lateral maneuvers of an aircraft, 3A360
- Mixed H_2/H_∞ optimal control for an elastic aircraft, 11A284
CLIFFE, KA: Long-wave morphological instabilities in directional solidification, 5A1170
CLIFFORD, LJ: Numerical modeling of chemistry and gas dynamics during shock-induced ethylene combustion, 8A1280
CLIFFORD, MJ: Zones of chaotic behavior in the parametrically excited pendulum, 7A119
- Locating oscillatory orbits of the parametrically-excited pendulum, 11A76
CLIFT, SE: Comparative analysis of bone stresses and strains in the Intoss dental implant with and without a flexible internal post, 3T1399
- Application of FEs to the stress analysis of articular cartilage, 7A1405
CLIFTON, JM: Dynamic modeling of a trailing wire towed by an orbiting aircraft, 1A142

CLIFTON, RJ: Integral equations for a 3D crack in an infinite, fluid-filled, poroelastic solid with zero permeability in one direction, 9A1367
- Three-dimensional analysis of surface cracks in an elastic half-space, 12A487
CLINE, MC: Numerical analysis of the flowfields in a staged gas turbine combustor, 2A1041
CLOUET, JF: Spectral analysis of randomly scattered signals using the wavelet transform, 4A243
CLOUGH, RB: Power considerations in acoustic emission, 3A262
CLOUTIER, GM: Dual conformance index-based robotic arm placement and adaptation, 8A363
CLOUTIER, JR: Performance enhancement for a missile in the presence of saturating actuators, 6A319
CLOUTIER, L: Effect of lubricant in electrical conductor fretting fatigue, 4A682
CLULEY, NC: Analysis of concrete cable-stayed bridges for creep, shrinkage, and relaxation effects, 3A801
COAKLEY, K: Stochastic modeling of a new spectrometer, 4A1290
COALMER, MS: Investigation of the heat transfer characteristics of a typical annular combustion chamber of an industrial gas turbine, 7A1252
COATES, PD: Towards intelligent process control of injection moulding of polymers, 2A332
COATES, RT: Finite-difference modeling of faults and fractures, 1A1383
COBB, JD: Characterization of bounded-input bounded-output stability for linear time-invariant systems with distributional inputs, 10T391
COBB, RG: Finite element model tuning using automated structural optimization system software, 7A13
COBBIN, AM: Hydrodynamic damping force on a cylinder in oscillatory, very-high-Reynolds-number flows, 11A214
COBO , P: Application of shaping deconvolution to the generation of arbitrary acoustic pulses with conventional sonar transducers, 5A283
COCATRE-ZILGIEN, JH: Sense organs of insect legs and the selection of sensors for agile walking robots, 8A1413
- Performance of a muscle-like "leaky" pneumatic actuator powered by modulated air pulses, 11A394
COCCHINI, F: Stability of molecular weight distributions as computed from the flow curves of polymer melts, 11A859
COCHRAN, RJ: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Application of moving grid control volume FEM to ablation problems, 10A1353
COCKBURN, B: A priori error estimates for numerical methods for scalar conservation laws - Part I: The general approach, 9A98
- Error estimates for FEMs for scalar conservation laws, 10A17
COCKBURN, JC: Multivariable stability margin optimization: A spectral tangential interpolation approach, 8T285
COCKER, RP: Study of ultrasonic wave propagation through parallel arrays of immersed tubes, 12A1260
COCKERHAM, G: Optimal design of involute profile helical gears, 12A975
COCKS, ACF: Transient creep analysis of ball indentation, 2A385
- Global analysis of structural evolution in a row of grains, 8A9
COCU, M: Formulation and approximation of quasistatic frictional contact, 12A945
CODA, HB: Simple comparison between two 3D time domain elastodynamic BE formulations, 11A61
CODINA, R: Effectiveness of block iterative schemes in computing the seismic response of buildings with nonlinear base isolation, 3A1336
CODY, DD: Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, 10A1466
COE, HH: Spur, helical, and spiral bevel transmission life modeling, 8A808
COELHO, PJ: Evaluation of a 3D model for the prediction of heat transfer in power station boilers, 2A1148
- Modeling of soot formation and oxidation in turbulent diffusion flames, 3A1216
- Mathematical modeling of NO formation in a power-station boiler, 8A1279
COENE, R: Two-dimensional vortex motion in the cross-flow of a wing-body configuration, 6A898
COFER, IV, JI: Advances in steam path technology, 10A1383
COGAN, S: Updating linear elastic models with modal selective sensitivity, 1A845
- Iterative least-squares calculation for modal eigenvector sensitivity, 7A217
COGNARD, J-Y: Modular approach to structure assembly computations: Applications to contact problems, 9A939
COHEN, C: Orientation in simple shear flow of semi-dilute fiber suspensions - I: Weakly elastic fluids, 8A865
- Orientation in simple shear flow of semi-dilute fiber suspensions - 2: Highly-elastic fluids, 8A866
COHEN, ER: Physics Quick Reference Guide, 6N36
COHEN, G: Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77, 11N19
- Expert system to match robots and to synchronize their operations to pick and place large parts, 9A445
COHEN, H: Elastodynamic problems for laminated and fibrillar bodies, 4A241
- Collisions of pseudo-rigid bodies: A Brach-type treatment, 7A262
COHEN, HM: Bus bar solder joint durability evaluation, 12A983
COHEN, I: Effects of interphase and impact strain rates on tensile off-axis behavior of unidirectional glass fiber composite: Experimental results, 4A493
COHEN, IM: Jet-flow scavenging of a curing oven - Part I: Flow visualization, 3A1006
- Jet-flow scavenging of a curing oven - Part II: Numerical simulation, 3A1192
- Evaporation and combustion of a slowly moving liquid fuel droplet: Higher-order theory, 7A1093
- Variational analysis of the squeezing flow of a yield stress fluid, 12A1014
COHEN-BASTIE, P: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766
COIFFET, P: Simulation of an open chain of flexible links in a mixed formalism, 1A90
- Smart robot's geometric model inverting system, 1A425
- Symbolic modeling of a flexible manipulator via assembling of its generalized Newton Euler model, 4A404
- Generalization of Newton-Euler model for flexible manipulators, 5A363
COIRIER, WJ: Solution-adaptive Cartesian cell approach for viscous and inviscid flows, 10A49
COJBASIC, Z: Design of the PI controller in the state space for controlling rotation speed of a steam turbine, 3A364
COKELET, G: Model studies of Leukocyte-Endothelium blood interactions - I: The fluid flow drag force on the adherent leukocyte, 10T1480
COKER, D: Weight function for a single edge cracked geometry with clamped ends, 4A712
- Cyclic behavior of unidirectional and cross-ply titanium matrix composites, 12A518
COKER, SA: Surface roughness measurement by ultrasonic sensing for in-process monitoring, 5A684
- In-process control of surface roughness due to tool wear using a new ultrasonic system, 5A357
COKLJAT, D: Compound-channel flows: A parametric study using a Reynolds-stress transport closure, 1T1053
COLACICCO, P: Role of soot aggregation on the lubrication of diesel engines, 2A809
COLANERI, P: Optimal design of robust predictors for linear discrete-time systems, 2T251
- Optimal robust filtering with time-varying parameter uncertainty, 8T270
COLANTUONI, S: Method to reduce the rejection rate for low performance at the acceptance test of PWC PT6T-6 overhauled power sections, 10A1397
COLAS, R: Model for thermal fatique in an aluminium casting alloy, 1A759
COLASURDO, G: Analysis of air-turborocket performance, 2A1194
COLBAN, DM: Comparison of the cooling performance of staggered and in-line arrays of electronic packages, 8A1219
COLBAUGH, R: Adaptive stabilization and tracking control of electrically driven manipulators, 8A322
- New results on adaptive impedance control for dexterous manipulators, 10A487
COLE, DG: Modal parameter estimation for piezostructures, 5A306
COLE, DJ: Force control of a semi-active damper, 3A371
- Optimal roll control of a single-unit lorry, 7A198
- Control strategies for semi-active lorry suspensions, 10A213
- Truck suspension design to minimize road damage, 10A216
- Active roll control of articulated vehicles, 12A395
COLE, GK: Modeling of force production in skeletal muscle undergoing stretch, 12A1455
COLE, JD: Multiple Scale and Singular Perturbation Methods - Applied Mathematical Sciences, Vol 114, 11R2
- Self-similar solutions of Barenblatt's nonlinear filtration equation, 11A938
COLE, KC: Optimization of the ultrasonic welding of PEEK-carbon composites, 8A656
COLE, SL: Resonant free surface waves in a rectangular basin, 4A267
COLELLA, P: Inviscid dynamics of 2D shear layers, 9A1168
COLEMAN, BD: Stability of cylindrical bodies in the theory of surface diffusion, 6A1181
COLEMAN, GN: Compressible turbulent channel flows: DNS results and modeling, 6A991
- Numerical study of turbulent supersonic isothermal-wall channel flow, 6A921
COLEMAN, HW: Engineering application of experimental uncertainty analysis, 3A59
- Investigation of microwave attenuation measurements in a laboratory-scale rocket motor plume, 5T250
- Evaluation of correlated bias approximations in experimental uncertainty analysis, 10A1209
- Asymmetric systematic uncertainties in determination of experimental uncertainty, 12A343
COLEMAN, JP: Chebyshev methods of Panovsky and Richardson as Runge-Kutta-Nystrom methods, 4A59
COLEY, DA: Prediction of road-side noise levels for sustainability assessments in the small urban environment, 3A288
- Use of a *virtual machine* to gauge the level of complaint to be expected from a proposed generating set, 7T310
COLGAN, D: Effect of the transverse component of the hip reaction on cement mantle stresses in a model of an implanted Exeter™ prosthesis, 11A1452
COLGATE, JE: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
COLIN, S: New high supply pressure pneumatic flapper-nozzle with linear behavior, 12A427
COLIN, T: Rotational effects in the modulations of weakly nonlinear water waves over finite depth, 4A260
COLLADO, C: Room temperature formability of particle-reinforced metal matrix composites: Forging, extrusion, and deep drawing, 2A557
COLLET, J-F: Reactive infiltration in porous media with thermal effects, 8A1307
COLLEY, AD: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562
COLLICOTT, SH: Quantitative molecular-mixing measurements using digital processing of absorption images, 3A975
COLLIGNON, B: Rheotens-mastercurves and elongational viscosity of polymer melts, 10A1050
COLLING, F: Laminating effects in glued-laminated timber beams, 6A760
COLLINS JR, EG: Nearly nonminimal linear-quadratic-Gaussian compensators for reduced-order control design initialization, 6T302
- Frequency domain performance bounds for uncertain positive real systems, 8T301
- Reduced-order compensation using the Hyland-Bernstein optimal projection equations, 8T304
- Discrete-time mixed-norm H_2/H_∞ controller synthesis, 11A277
COLLINS, DN: Ultrasonic NDE of the matrix structure and the graphite shape in cast iron, 7A892
COLLINS, KR: Reliability-based dual level seismic design procedure for building structures, 3A1322
COLLINS, LR: Spectral analysis of a simulated premixed flame surface in 2D, 1A1340
- Numerical considerations in simulating a turbulent suspension of finite-volume particles, 9A1120
COLLINS, MB: Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, 7A1052
COLLINS, MD: Parabolic equation for poro-elastic media, 1A1368
- Efficient navigation of parameter landscapes, 1A72
COLLINS, MP: Recent Developments on Lateral Force Transfer in Buildings - Proc of Thomas Paulay Symp, 12N31
- General shear design method, 7A953
- Analysis of reinforced concrete members subject to shear and axial compression, 11A744
COLLINS, MW: Investigation of flow and heat transfer in corrugated passages - I: Experimental results, 3A1149
- Investigation of flow and heat transfer in corrugated passages - II: Numerical simulations, 3A1029
- Combined convection and wall conduction effects in laminar pipe flow: Numerical predictions and experimental validation under uniform wall heating, 3A1055
- Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
COLLINS, R: Nondestructive Testing of Materials - Studies in Applied Electromagnetics and Mechanics, Vol 8, 11N34
COLLINS, RJ: Examination of OH ultraviolet radiation from shock-heated air, 10A1306
COLLOMBET, F: Three-dimensional modeling of low velocity impact damage in composite laminates, 10A322
COLLOP, AC: Theoretical analysis of fatigue cracking in flexible pavements, 4A678
- Model of whole-life flexible pavement performance, 7A798
COLMAN, J: Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, 5T951
COLOMBINI , M: Nearly-pure sorting waves and formation of bedload sheets, 10A1060
COLOMBINI, M: Longitudinal streaks, 6A885
COLONNA, P: Influence of amylose content on the viscous behavior of low hydrated molten starches, 11A855
COLQUHOUN, GJ: Engineering data control for bid and order handling in the capital plant industry, 12T474
COLVIN, DP: Microencapsulated phase-change material suspensions for heat transfer in spacecraft thermal systems, 10A1309
COLWELL, CW: Instrumented implant for measuring tibiofemoral forces, 8A1437
COMAKLI, O: Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, 2A1109
COMAS, P: Magnetic flow meter measurement of solid propellant pressure-coupled responses using an acoustic analysis, 8T1272
COMBESCURE, A: Nonlinear stability of a defective cylindrical shell, 8A499
COME, GM: Inhibiting effect of brominated compounds on oxidation reactions, 5A1247
COMER, JK: Computational analysis of convection heat transfer to non-spherical particles, 2A1081
COMI, C: Localization analysis via a geometrical method, 2A355
COMINI, G: Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996, 11N45
- Streamfunction-vorticity-based FE formulation for laminar-convection problems, 1A1226
- Accuracy comparison of control-volume and Bubnov-Galerkin FEMs for heat conduction problems, 6A1122
- Energy balances in CVFEM and GFEM formulations of convection-type problems, 12A1221
COMITE EURO-INTERNATIONAL DU BETON: RC Frames Under Earthquake Loading, 12N47
COMITIS, SC: Experimental and modeling study of fires in ventilated ducts - Part II: PMMA and stratification, 7A1331
COMMITTE ON CONCRETE SPECIFICATIONS AND RECOMMENDATIONS: JSCE standard "Qualities of water for concrete" (Japanese), 9T938
COMMITTEE ON CONCRETE: JSCE standard "Qualities of water for concrete" (Japanese), 9T938
COMMITTEE ON DES OF STEEL BUILD STRUCT OF THE COMMITTEE ON METALS, STRUCT DIV: Compendium of design office problems: Volume II, 7A971
COMO, M: Theory of Stability of Continuous Elastic Structures, 5R19
COMTE, P: Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, 5A927
COMYN, J: Special Issue: Papers presented at the thirty-third annual conference on adhesion and adhesives, Oxford Brookes Univ, UK on 5 April 1995, 9T1033
- Special Issue: In honor of Dr KW Allen on the occasion of his 70th birthday, 11A848
CONCI, A: Model for including semi-rigid connections on 3D thin-walled framed structures (Spanish), 4A540
CONCUS, P: Capillary wedges revisited, 7A1065
CONDE, MR: Estimation of thermophysical properties of lubricating oils and their solutions with refrigerants: An appraisal of existing methods, 3A1013
CONDE-PETIT, B: Complexation induced changes of rheological properties of starch systems at different moisture levels, 4A885
CONDIE, DN: Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, 6A1323
CONDON, R: Possibilities for future developments in primary safety requirements, 7A1417
CONE, KM: Numerical study of an impact oscillator with the addition of dry friction, 6A191
CONG, LIQUN: Robust control of MIMO nonlinear systems with mismatched uncertainty, 2A273
CONKLIN, JC: Advances in Enhanced Heat-Mass Transfer and Energy Efficiency, HTD-Vol 320-Vol 1 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 5N28
CONLEY, E: Speckle-photography study of nuclear-waste vault deformations, 10A848
CONNELL, B: Process Instrumentation Applications Manual, 6R11
CONNELL, LD: Analysis of perturbation based methods for the treatment of parameter uncertainty in numerical groundwater models, 5A1309
CONNELL, SD: Three-dimensional unstructured adaptive multigrid scheme for the Navier-Stokes equations, 7A32
CONNER, MD: Global convergence characteristics of numerically evaluated Jacobian matrices, 12A127
CONNOLLY, MP: Reliability-based assessment of inspection requirements, 2A746
CONNON, CS: Flow behavior near an infinite droplet stream, 12A1094
CONNOR, JJ: Introduction to Motion Based Design, 12R4
CONNOR, P: Influence of shear strain and hydrostatic stress on stability and elastic waves in a layer, 9A265

CONOIR, JM: Generalized Debye series expansion: Treatment of the concentric and nonconcentric cylindrical fluid-fluid interfaces, 5A233
CONONOVICI, S: Approach to robots piloted control by visual sensor in arc welding processes, 11A388
CONOVER, TA: Buoyant pulsating exchange flow through a vent, 3A1032
CONRAD, DC: Problem of oscillatory walk of automatic washing machines, 6A169
CONRAD, H: Wetting kinetics of molten 60Sn40Pb on a Ag-0.33 wt% Pt thick film conductor, 3A871
- Plastic deformation kinetics of 95.5Sn4Cu0.5Ag solder joints, 3A866
- Effect of microstructure size on deformation kinetics and thermo-mechanical fatigue of 63Sn37Pb solder joints, 12A1280
CONRAD, JR: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
CONRADIE, AE: Performance evaluation of dry-cooling systems for power plant applications, 6A1219
CONSOLE, R: Probability gain due to foreshocks following quiescence tested by synthetic catalogs, 12A1372
CONSONNI, S: Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, 5A1030
- Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, 5A1031
CONSTABLE, J: Determination of parameters affecting solder paste tack strength as measured in the IPC tack test: A classical design of experiments approach, 12A706
CONSTABLE, JH: Study of print release process in solder paste printing, 3A867
CONSTANDA, C: Integral equations of the first kind in plane elasticity, 4A426
- Direct and indirect methods in the theory of elastic plates, 11A528
CONSTANTINESCU, A: Identification of elastic moduli displacement-force boundary measurements, 1A843
CONSTANTINESCU, VN: Laminar Viscous Flow - Mechanical Engineering Series, 8R25
CONSTANTINOU, MC: Testing procedures for high output fluid viscous dampers used in building and bridge structures to dissipate seismic energy, 1A1401
- Dynamic analysis of viscoelastic fluid dampers, 2A148
- Experimental study of FPS system in bridge seismic isolation, 6A1280
- Seismic isolation retrofit of large historic building, 8A1344
- Experimental study of bridge seismic sliding isolation systems, 8A145
CONSUL, N: Equilibrium solutions of diffusion equations with nonlinear boundary conditions, 10A1347
CONTE, J: Seismic reliability assessment of existing R-C flat-slab buildings, 2A1247
CONTE, JP: Probabilistic screening tool for groundwater contamination assessment, 3T1396
- Explicit closed-form solution for linear systems subjected to nonstationary random excitation, 9A929
CONTI, M: Thermodynamic design of a phase change thermal storage module, 11A1241
CONTRERAS, M: Double resonance for quasilinear elliptic higher order partial differential equations between the first and second eigenvalues, 3T106
CONVERT, P: Optimal design for minimum weight in a cracked pressure vessel of a turboshaft, 11A727
CONWAY, BA: Direct optimization using collocation based on high-order Gauss-Lobatto quadrature rules, 11T276
CONWAY, JT: Analytical solutions for the actuator disk with variable radial distribution of load, 2A1006
CONWELL, JC: Design, construction and instrumentation of a machine to measure tension and impact forces in roller chain drives, 9A996
- Experimental investigation of link tension and roller-sprocket impact in roller chain drives, 9A997
COOK, CS: System evaluation and LBTU fuel combustion studies for IGCC power generation, 5A1288
COOK, NGW: Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992, 12N25
COOK, NJ: Proceedings of the First IAWE European and African Regional Conference, September 20-24, 1993, Guernsey, UK, 2A1276
COOK, R: Development of the twin-roll casting process, 7A756
COOK, RD: Finite Element Modeling for Stress Analysis, 3R2
COOK, RL: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
COOKE, CH: Hybrid numerical method for the shallow water equations with source term, 5A209
- Multi-resolution analysis on the interval with natural spline projection and uniform two-scale relation, 10A56
COOKE, CM: Acoustic time-domain reflectometry for irregular surface recognition, 6A241
COOKE, GME: Numerical simulation of a full scale fire test on a loaded steel framework, 5A720
COOKE, N: Compression behavior of bridge bearings used for seismic isolation, 9A240
COOKER, MJ: Pressure-impulse theory for liquid impact problems, 2A930
COOL, TA: Extended flame zone in the combustion of CH_3Cl, 3A1232
COON, MD: Experimental study of saddle point of attachment in laminar juncture flow, 4A961
COOP, MR: Objective criteria for determining G_{max} from bender element tests, 12T649
COOPER, JE: Modal parameter identification using an unknown colored random input, 5A307
- Mode tracking during flutter testing using the modal assurance criterion, 8A227
COOPER, KD: Alternating direction collocation for irregular regions, 7A59
COOPER, LY: Combined buoyancy and pressure-driven flow through a shallow, horizontal, circular vent, 3A1054
COOPER, M: Implications of the emerging home systems technologies for rehabilitation, 10A1489
COOPER, P: Multiple sources of buoyancy in a naturally ventilated enclosure, 9A1433
- Natural ventilation of an enclosure containing two buoyancy sources, 9A1434
COOPER, RA: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373
COOPER, TP: Evaluation of cleaning methods for granite based on petrographic examinations, 10A692
COOTE, JA: Optimal excitation for aircraft flutter testing, 6A221
COPELAND, D: Single-phase and boiling cooling of small pin fin arrays by multiple nozzle jet impingement, 8A1222
COPELAND, GJM: Hydrodynamic model of unsteady tidal flow in coastal waters based on an inverse method, 9A1056
COPELAND, RA: Measurement of catalytic recombination coefficients on quartz using laser-induced fluorescence, 10A1211
COPENHAVER, GL: Epicardial surface dynamics in the closed-chest normal canine, 2A1302
COPENHAVER, WW: Stall inception in single-stage, transonic compressors with straight and swept leading edges, 4A1117
- Effect of tip clearance on a swept transonic compressor rotor, 11A1059
COPETTI, MIM: Numerical analysis of a model for phase separation of a multi-component alloy, 6A22
COPPA, AP: Robotic assembly of truss beams for large space structures, 1A922
COPPOLA, VT: Global asymptotic stabilization of the spinning top, 1A91
- Global stabilization of the spinning top with mass imbalance, 6A94
- Global stabilization of the oscillating eccentric rotor, 10A105
- Phugoid motion for grazing-entry trajectories at near-circular speeds, 10A327
COPPOLINO, RN: Identification of physical parameters with memory in nonlinear systems, 5A305
CORAPCIOGLU, MY: Body waves in fractured porous media saturated by two immiscible Newtonian fluids, 12A1341
- Wave propagation in fractured porous media, 12A1343
CORBETT, GG: Impact loading of plates and shells by free-flying projectiles: A review, 6A189
CORDEN, J: Determination of the curvatures and bending strains in open trileaflet heart valves, 2T1313
- In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion, 6T1338
- Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, 8A1436
CORDES, RD: Note on the line spring solution for a part-through crack, 4A760
CORDIER, S: Global solutions to the isothermal Euler-Poisson plasma model, 2A996
- Hyperbolicity analysis of multimoment plasma models: Application to auroral plasma outflows along magnetic field lines, 10A1187
CORDY, C: Strong, low-cost mount for parabolic dish solar collectors, 3A1365
CORIGLIANO, A: Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws, 1A509
- Kinematic criteria of dynamic shakedown extended to nonassociative constitutive laws with saturation nonlinear harding, 3A749
CORJON, A: Vortex model to define safe aircraft separation distances, 11A1024
CORMACK, DE: Corner analysis in the BEM by the continuation approach, 5A45
CORMAN, JC: System evaluation and LBTU fuel combustion studies for IGCC power generation, 5A1288
CORMEAU, I: First step towards the modeling of the thermoforming of plastic sheets, 6A550
CORNEC, A: Quantifications of crack constraint effects in an austenitic steel, 2A636
- Verification of a cohesive zone model for ductile fracture, 10A787
CORNELL, CA: Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, 9A1415
- Influence of alternative wave loading and support modeling assumptions on jack-up rig response extremes, 11A216
CORNELOUP, G: Propagation of ultrasonic waves passing through an RCC test specimen (French), 11A710
CORNUELLE, BD: Simulated tomographic reconstruction of ocean features using drifting acoustic receivers and a navigated source, 3A259
CORNWELL, K: Heat transfer to sliding bubbles on a tube under evaporating and non-evaporating conditions, 3T1092
CORONA, E: Performance of kinematic hardening rules in predicting a class of biaxial ratcheting histories, 8A428
- Buckling of elastic-plastic square tubes under bending, 9A640
CORONAS, A: Absorption heat pump with the TFE-TEGDME and TFE-H_2O-TEGDME systems, 7A1270
CORONEOS, R: Structural optimization with approximate sensitivities, 3A765
CORONEOS, RM: Comparative evaluation of different optimization algorithms for structural design applications, 10A876
COROTIS, R: Direct integration method for stochastic FE analysis of nonlinear dynamic response, 8A13
COROTIS, RB: Dominant failure modes for structures with stochastic load processes, 3A793
- Reanalysis of rigid frame structures by the virtual distortion method, 11A733
CORRADI, L: Plane strain formulation of the elastic-plastic constitutive law for hardening von Mises materials, 1A512
CORREA, SM: Direct comparison of pair-exchange and IEM models in premixed combustion, 3A1217
CORREIG, AM: Measurement of the predominant and resonant frequencies, 11A1389
CORRENZA, JC: Seismic energy dissipation in torsionally responding building systems, 8A1343
- Evaluation of serviceability limit state seismic torsional provisions of Eurocode 8, 9A937
- Seismic torsional provisions: Influence on element energy dissipation, 10A1440
CORS, JM: Global flow of the hyperbolic restricted three-body problem, 3A229
CORSON, MA: Protein kinases as modistors of fluid shear stress stimulated signal transduction in endothelial cells: A hypothesis for calcium-dependent and calcium-independent events activated by flow, 5A1390
CORTADA, M: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
CORTELLA, G: Streamfunction-vorticity-based FE formulation for laminar-convection problems, 1A1226
CORTES, R: Tensile failure of stainless-steel notched bars under hydrogen charging, 10A747
CORTESE, TA: High performance spectral simulation of turbulent flows in massively parallel machines with distributed memory, 3A974
CORTEZ, R: Impulse-based approximation of fluid motion due to boundary forces, 7A1055
CORTIE, MB: Fatigue cracking of type 304 sheet in pasteurizer water, 4A671
CORTINA, E: Convergence estimates for the wavelet Galerkin method, 7A60
CORY JR, JF: Current Topics in Computational Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N2
COSGROVE, JE: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
COSMI, F: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
COSMO, ML: Atomspheric research with the small expendable deployer system: Preliminary analysis, 7A988
COST, TL: Material-property effects on a thin-film solar concentrator, 1A1348
COSTA MATTOS, HS: Modeling the necking of tension members using a theory of rods, 8A422
- Analysis of the fracture of brittle elastic materials using a continuum damage model, 8A608
COSTA PEREIRA, NH: Study of the nozzle flow in a cross-flow turbine, 6A1028
COSTA, JDM: Effects of surface treatments on the fatigue of notched bend specimens, 8A589
COSTA, KD: Finite element stress analysis of left ventricular mechanics in the beating dog heart, 1A1450
COSTA, VAF: Control-volume based FEM for 3D incompressible turbulent fluid flow, heat transfer, and related phenomena, 2A12
COSTANZO, C: Multiresolution analysis of satellite-derived irradiance maps: An evaluation of a new tool for the spatial characterization of hourly irradiance fields, 1A1429
- Modifications of the Heliosat procedure for irradiance estimates from satellite images, 9A1422
COSTANZO, F: Continuum thermodynamic analysis of cohesive zone models, 4A749
- Micromechanics and homogenization of inelastic composite materials with growing cracks, 8A441
COSTER, JE: Structural optimization of guyed trusses, 4A796
COSTES, JJ: Oscillatory behavior of helicopter rotor airloads in the blade stall regime, 2T1050
COSTES, M: Aerodynamic and acoustic calculations of transonic nonlifting hovering rotors, 10A1217
COTE, AS: Heat transfer enhancement in annular channels with helical and longitudinal fins, 2A1088
COTE, P: Finite element analysis of concrete swelling due to alkali-aggregate reactions in dams, 12A851
COTHREN, RM: Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, 12A1489
COTON, FN: Influence of detailed blade design on the aerodynamic performance of straight-bladed vertical axis wind turbines, 8A1011
- Examination of vortex deformation during blade-vortex interaction, 11A1068
COTTA, RM: Analysis of unsteady forced convection in turbulent duct flow, 1A1172
- Integral transform methodology for convection-diffusion problems in petroleum reservoir engineering, 2A1224
COTTERELL, B: Fracture process zone concept and delamination of composite laminates, 4A731
- Approximate yield criterion for voided nonlinear materials, 11A447
COTTERILL, PJ: Influence of loading levels, temperature, and environment on fiber failure during the fatigue of an SiC fiber-reinforced Ti-MMC, 8A585
COTTIN, N: Properties of various residuals within updating of mathematical models, 1A211
COTTON, MA: Variant of the low-Reynolds-number two-equation turbulence model applied to variable property mixed convection flows, 6A1092
- Calculations of wall shear stress in harmonically-oscillated turbulent pipe flow using a low-Reynolds-number k-ε, 9A1186
COTTRELL, RG: Minimizing interceptor size using neural networks for terminal guidance law synthesis, 11T312
COUCHMAN, LS: Ray tracing over smooth elastic shells of arbitrary shape, 6A212
COUDER, Y: Instabilities of the upstream meniscus in directional viscous fingering, 10A1170
COULOUVRAT, F: Renormalization method for nonlinear pulsed sound beams, 12A309
COULTER, J: Application of the integrating fiber optic sensor for vibration monitoring, 1A170
COULTER, JP: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
- Structural modeling and optimal control of electrorheological material based adaptive beams, 2A505
- Electrorheological material based adaptive beams subjected to various boundary conditions, 3T526
- Analytical and experimental investigation of Electrorheological material based adaptive beam structures, 7A910
COULTHARD, JM: Experimental investigation of effects of vibration upon elastic and cohesive properties of beds of wet sand, 1A696
COUNTURE, D: Experimental investigation of the vibroacoustic behavior of structures for validation purposes, 4A198
COUSSOT, P: Determination of yield stress fluid behavior from inclined plane test, 5A868
COUSSY, O: Mechanics of Porous Continua, 10R39
- Macroscopic model of the swelling phenomenon of a saturated clay, 4A603
COUSTOLS, E: Rear fuselage flow studies on a modern transonic tranport aircraft, 5A997
COUTANT, O: Numerical source implementation in a 2D finite difference scheme for wave propagation, 3A1338
- Observation of shallow anisotropy on local earthquake records at the Garner Valley, Southern California, Downhole Array, 11A1391
COUTAT, P: Sensitivity analysis for generalized linear-quadratic problems, 7T374
COUTIE, MG: Adjustment of stiffness matrices, 7A961
COUTOULY, JF: Acquisitions and quantitative data handling of laser beam analyzer signals (French), 4T768
COUTURE, F: Relative permeability relations: A key factor for a drying model, 12A1347
COUTURIER, MF: Experimental and theoretical information on solid flow in a circulating fluidized bed, 1A1363
COVAS, JA: Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302, 5N27
COVERSTONE-CARROLL, V: Detumbling and reorienting underactuated rigid spacecraft, 11T233
COVERSTONE-CARROLL, VL: Application of a genetic algorithm to wind turbine design, 8A1394

COWAN, DM: Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, 6A1362
COWARD, AV: Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995, 12N39
COWIN, SC: Case for bone canaliculi as the anatomical site of strain generated potentials, 2A1285
- Implementation of strain rate as a bone remodeling stimulus, 5A1365
- Strain or deformation rate dependent finite growth in soft tissues, 8A1427
- Propagation of Kelvin modes, 9A249
COWPLAND, W: Friction of currency bills, 11A804
COWSAR, LC: A priori estimates for mixed FE approximations of second-order hyperbolic equations with absorbing boundary conditions, 10A22
COX, BN: Binary model of textile composites - II: The elastic regime, 1A536
- Time dependent crack growth in ceramic matrix composites with creeping fibers, 3A704
- Compression-compression fatigue of 3D woven composites, 4A667
- Self-consistent approximation for crack bridging by elastic-perfectly plastic ligaments, 11A667
- Tensile failure of 3D woven composites, 11A689
COX, DE: Indirect identification of linear stochastic systems with known feedback dynamics, 12A327
- Iterative LQG controller design through closed-loop identification, 12A374
COX, SM: Multiple bifurcations in triple convection with non-ideal boundary conditions, 11A1267
COY, JJ: Spur, helical, and spiral bevel transmission life modeling, 8A808
COY, RC: Simulated non-Newtonian lubricant behavior under extreme conditions, 4A1126
COZZANI, V: Ignition and combustion of single, levitated char particles, 3A1205
CRAFT, TJ: Development and application of a cubic eddy-viscosity model of turbulence, 11A1004
CRAGGS, A: Effect of damping on the stability of a FE model of a flexible non-axisymmetric rotor on tilting pad bearings, 2A815
- Further validation and use of the FEM to room acoustics, 4A328
- Transfer matrix method for FE models of a chain-like structure under harmonic excitations, 4T12
- Transient response of lightly damped rooms: A FE approach, 6A256
- Application of acoustic FE models to finding the reverberation times of irregular rooms, 9A380
CRAGGS, G: Analysis of the mechanics for drawing polyvinyl chloride tubes over an expanding mandrel, 9A699
CRAGO, PE: Restoration of pronosupination control by FNS in tetraplegia: Experimental and biomechanical evaluation of feasibility, 8A1423
CRAIG JR, RR: Mechanics of Materials, 11R24
- Substructure-based controller design method for flexible structures, 3A340
CRAIG, D: Behavior of small corner cracks in a ferritic pearlitic steel: Experiments and analysis, 1A747
CRAIG, JI: Testing of energy dissipating cladding connections, 7A1382
CRAIG, KC: Active control of wave-type vibration energy for improved structural reliability, 4A797
CRAIG, L: Finite element model comparison of ball and roller bullgears, 8A800
CRAIG, PS: Measurement of wear in retrieved acetabular sockets, 6A1366
CRAIGIE, L: Buckling of filament-wound cylindrical vessels subjected to external pressure, 10A631
CRAIK, RJM: Sound transmission through dry lined walls, 10A349
CRAINE, RE: Modeling the creep of a pipe weld using Cosserat theory, 4A688
- Modeling creep failure in welded plates under uniaxial loading, 8A411
CRANE , M: Causality and the complex modulus model of damping, 4T143
CRANE, M: Calculation of interlaminar stresses in laminated plates using Walsh transforms, 11T519
CRANSWICK, E: Constraints on the June 29, 1992, Little Skull Mountain, Nevada, earthquake sequence provided by robust hypocenter estimates, 2A1229
CRAPARO, JC: Solar-electric Vehicle Simulation code, 3A1377
CRASTER, RV: Solutions for Herschel-Bulkley flows, 1A958
- Finite-length cracks and inclusions in poroelasticity, 11A690
CRAWLEY, EF: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11
- Aeroelastic actuation using elastic and induced strain anisotropy, 2A199
- Global structure modeling using force-state component identification, 6T280
- Asymptotic linear quadratic control for lightly damped structures, 12T400
CREAMER , G: Attitude determination and control of Clementine during Lunar mapping, 11A356
CREAMER, DB: Scintillating shallow-water waveguides, 10A348
CREAMER, G: Clementine attitude determination and control system, 5A740
CREASY, TS: Transient rheological behavior of a long discontinuous fiber-melt system, 12A1013
CREATH, K: High data density temperature measurement for quasi steady-state flows, 12A1199
CRESCITELLI, S: Bifurcation analysis of a molecular model for nematic polymers in shear flows, 1A94
CRETU, S: Dynamic analysis of tapered roller bearing under fully flooded conditions - Part 1: Theoretical formulation, 3A75
- Dynamic analysis of tapered roller bearings under fully flooded conditions - Part 2: Results, 3A76
CRISFIELD, MA: Coarse-fine mesh preconditioners for the iterative solution of FE problems, 2A20
- Combining arc-length control and line searches in path following, 3A26
- Partially sequential preconditioner for a parallel and efficent FE solution, 5A29
- Enhanced lower-order element formulations for large strains, 6A32
- Energy conserving co-rotational procedure for nonlinear dynamics with FEs, 7A35
- Energy-conserving corotational procedure for the dynamics of planar beam structures, 12A185
CRISSMAN, RD: Simulation and analysis of upper Niagara River ice-jam conditions, 1A1440
CRISTESCU, I: Method for plotting the gasodynamic field in the rotor of a cryogenic turboexpander, 11A1042
- Method for plotting the gasodynamic field in the rotor of a cryogenic turboexpander, 11A1042
CRISTESCU, ND: ASME 1995 Nadai lecture: Plasticity of porous and particulate materials, 10A553
- Creep, damage and failure around large rectangular-like caverns and galleries, 11A651
CRISTINI, P: Characteristics of sound waves in shallow water in presence of a stratified ground (French), 11A249
CRISTOFOLINI, L: Mechanical validation of whole bone composite femur models, 8A1410
CRISWELL, DR: Data envelopment analysis of space and terrestrially-based large scale commercial power systems for Earth: A prototype analysis of their relative economic advantages, 8A1382
CRITCHLOW, GW: Adhesion and surface analysis, 8A849
CRITOPH, RE: Momentum and heat transfer by forced convection in fixed beds of granular active carbon, 8A1195
- Performance estimation of convective thermal wave adsorption cycles, 8A1196
CRITTENDEN, JC: Destruction of organic compounds in water using supported photocatalysts, 11A1449
CRIVELLI, L: Implicit time integration of a class of constrained hybrid formulations - Part I: Spectral stability theory, 1A210
CROBA, D: Numerical calculation of 2D, unsteady flow in centrifugal pumps: Impeller and volute interaction, 9A1235
CROCE, N: Fluid handling system for a chemical microanalyzer, 10T458
CROCKETT, P: Strength of welded T-DT joints in rectangular and circular hollow section under variable axial loads, 8A765
CROCOMBE, AD: Anisotropic effective moduli of materials with microcracks, 4A754
CROFT, AJ: Model for separated laminar flow over a wavy boundary with sharp crests, 5A1340
CROLL, RH: Shear-stress-sensitive liquid crystals for hypersonic boundary-layer transition detection, 5A929
CROLLA , DA: Vehicle dynamics-theory into practice, 10A78
CROLLA, DA: Effect of frame flexibility on the ride vibration of trucks, 4A206
- Effect of nonlinear components on the performance of a hydro-pneumatic slow-active suspension system, 7A197
- Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, 11A145
- Hydro-pneumatic slow-active suspension with preview control, 11A327
CROMBIE, R: The ΔT_{41} criterion for irradiation shift, 10A1451
CROMER, R: Redesigning mechanical systems for low wear using system dynamics modeling, 10T972
CRONIN, DL: Computation of eigenvalues and eigenvectors of nonclassically damped systems, 2A125
- Static and dynamic characteristics of spot welded sheet metal beams, 5A125
CRONISE, RJ: Gravitational effects on closed-cellular-foam microstructure, 10A329
CROOKS, ECM: Vol'Pert theory of traveling-wave solutions for parabolic systems, 9T250
CROOM, MA: X-31 aircraft: Advances in aircraft agility and performance, 11A1031
CROSBIE, GM: Vibration characteristics and comparisons of automotive engine valves made from conventional and non-conventional materials, 10T1021
CROSS, JT: Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, 6A1124
CROSS, KJ: Measurement and analysis of the 3D form of curved surfaces, 8A704
CROSS, M: Numerical modeling of DC electromagnetic pump and brake flow, 4A1103
- Solution of the elastic and visco-plastic constitutive equations: A finite volume approach, 4A455
- Natural extension of the conventional finite volume method into polygonal unstructured meshed for CFD application, 7A30
CROSSLEY, WA: Sizing methodology for reaction-driven, stopped-rotor vertical takeoff and landing concepts, 5A1070
CROSSON, RS: Source scaling and moment estimation for the Pacific Northwest seismograph network using S-coda amplitudes, 3A1341
CROUCH, JD: Dynamics and stability of a vortex ring impacting a solid boundary, 2A867
CROWDER, JP: Flow Visualization VII - Proc of 7th Int Symp on Flow Visualization, 9N15
CROWDER, MJ: Competing risks models for fracture in the ductile to brittle transition temperature region, 7A799
CROWDER, RM: Advanced system concepts for future civil aircraft: An overview of avionic architectures, 6A778
CROWE, CT: Instructional Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf, 2N42
- Numerical models for two-phase turbulent flows, 6A998
CROWLEY, JL: Intelligent Robotics Systems: SIRS '94, 11A364
CROWTHER, R: Debris-cloud collision risk analysis: Polar-platform case study, 5A247
CRUCIANI, G: Performance comparisons of low-power arcjets, 4A1277
CRUM, LA: Nonlinear coupling between the surface and volume modes of an oscillating bubble, 3A938
CRUMPTON, PI: Radiative exchange between square parallel channels in a concentric monolith structure, 7A1255
CRUSE, TA: Compressive fatigue of a plasma sprayed ZrO_2-8 wt% Y_2O_3 and ZrO_2-10 wt% NiCrAlCoY TTBC, 5A591
- Development of a reliability-based fatigue life model for gas turbine engine structures, 8A598
- BIE fracture mechanics analysis: 25 years of developments, 12A772
CRUZ, CI: Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, 10A330
CSAPO, E: Friction behavior of a graphite-graphite dynamic electric contact in the presence of argon, 10A965
CSENDES, T: Incorporating manufacturing tolerances in near-optimal design of composite structures, 11A492
CSONKA, SJ: Methodology to assess design uncertainty in selecting affordable gas turbine technology, 5A1284
CUCCIO, JC: Subcritical crack growth life prediction for ceramic components of advanced heat engines, 10A805
CUDD , PA: Providing rehabilitation integrated systems using existing rehabilitation technology, 10T1491
CUDNEY, HH: Comparison of probabilistic and deterministic optimizations using genetic algorithms, 6A712
- Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808
CUENOT, B: Asymptotic and numerical study of diffusion flames with variable Lewis number and finite rate chemistry, 7A1339
CUER, M: One-dimensional layered media - Part 2: Layer-based waveform inversion, 3A191
- One-dimensional media - Part 1: 3D elastic modeling, 3A192
CUERNO-REJADO, C: Rapid method for spacecraft sizing, 2A799
CUFFE, AM: Domain decomposition algorithm for viscous-invicid coupling, 12A1055
CUI , TIAN-SHANG: Optimum disposition of assembled piping system for parallel operation of multiple compressors, 12A1116
CUI, E: New explanation of cause of heat convection of gases under micro-gravity (Chinese), 8A1082
CUI, HONGWU: Effect of boundary conditions on the stability of a cantilever pipe discharging and aspirating fluid, 9A318
CUI, KAN: Configurations of symbolic equations of motion for rigid multibody systems, 2A66
CUI, L: Finite element analyses of anisotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, 12A1352
- Mandel's problem revisited, 12A646
CUI, SHIJIE: Elastoplastic dynamic buckling and postbuckling of square plates under solid-fluid slamming, 1A673
CUI, XIUYING: Spectrum analysis of vibrations on rotary machine sets with more rotors (Chinese), 9A236
CUI, YANTAO: Numerical simulation of aggradation and downstream fining (French), 12T1027
CUI, YINGQING LAWRENCE: Toughening of ceramics by short aligned fibers, 1A576
CUI, YJ: Yielding and plastic behavior of an unsaturated compacted silt, 12A644
CUI, YONGBIN: Experimental investigation on the two-phase theory in a fluidized-bed combustor, 3A1261
CUIJPERS, JWM: Cloud perturbations of temperature and humidity: A LES study, 8A1361
CUITINO, AM: Ductile fracture by vacancy condensation in FCC single crystals, 6A648
- Three-dimensional crack-tip fields in four-point-bending copper single-crystal specimens, 12A748
CULHAM, JR: Modeling transient conduction from isothermal convex bodies of arbitrary shape, 1A1258
CULLEN, LM: Flow of a shear-thinning liquid in a cylindrical container with a rotating end wall, 10A1075
CULLEN, PJ: Wave scattering by a 2D pressure-release surface based on a perturbation of the Green's function, 1A343
CULLEN, WH: Effect of water flow rate upon the environmentally assisted cracking response of a low-alloy steel, 5A588
CULP, RD: Guidance and Control 1996: Advances in the Astronautical Sciences, Volume 92 - Proc of Annual Rocky Mountain Guidance and Control Conf, Breckenridge, CO, February, 1996, 10N15
- Designing continuous-thrust low-Earth-orbit to geosynchronous-Earth-orbit transfers, 5A235
- Space-debris identification using optical calibration of common spacecraft materials, 10A331
- Mass-diameter and characteristic-length ratio functions for orbital debris, 12A270
CULPEPPER, M: Estimates of the Clementine interstage adapter satellite tumbler rate, 5T744
CUMMINGS, A: Segmented Rayleigh-Ritz method for predicting sound transmission in a dissipative exhaust silencer of arbitary cross-section, 4A325
- Wave propagation in catalytic converters: Formulation of the problem and FE solution scheme, 6A204
CUMMINGS, JF: Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443
CUMMINGS, RM: Experimental investigation of tangential slot blowing on a generic chined forebody, 1A1113
- Computational investigation of tangential slot blowing on a generic chined forebody, 1A1112
- Wake integration to predict wing span loading from a numerical simulation, 2T1025
CUMO, M: Effect of the tube diameter on the critical heat flux in subcooled flow boiling, 8T1134
CUNEFARE, KA: Radiation modes of baffled finite plates, 1A288
CUNHA, AR: Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, 3A43
CUNNINGHAM JR, TP: Engineered wood construction: Structural properties for LRFD, 1A899
CUNNINGHAM, RA: Modeling of roller cone bit lift-off dynamics in rotary drilling, 5A1346
CUNNINGHAM, RG: Liquid jet pumps for two-phase flows, 1A1130
CUNNINGHAM, TJ: Assessment of American block shear load capacity predictions, 5A722
CUPERUS, J: Local load stresses in cylindrical shells at plate clips, 10A611
CUPINI, E: Advection-diffusion processes and residence times in semienclosed marine basins, 12A1410
CUPOVA, S: Carpet fibers from poly-e-caprolactam with improved elastic properties, 6A456
CURA, F: Study of the forced response of a clamped circular plate coupled to a uni-dimensional acoustic cavity, 8A119
CURNIER, A: Biomechanics of the human patella during passive knee flexion, 2A1284
- Alternative model for anisotropic elasticity based on fabric tensors, 4A2
- Geometric properties of 2D and 3D unilateral large slip contact operators, 12A493
CURR, RM: Model for dynamic ductile crack growth, 9A841
CURRAN, ET: Developments in High-Speed-Vehicle Propulsion Systems, 3N31
- Fluid phenomena in scramjet combustion systems, 6A1212
CURREY, JD: Effects of ageing and changes in mineral content in degrading the toughness of human femora, 6A1311
- Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler, 12A715
CURREY, MN: Radiation modes of baffled finite plates, 1A288
CURRIE, JS: Performance of novel compact heat exchangers with highly extended surfaces, 6A1146
CURRÒ, C: Linearization procedure for quasi-linear non-homogeneous and non-autonomous 2×2 first-order systems, 11A91
CURRY, DM: Ablation analysis of the shuttle orbiter oxidation protected reinforced carbon-carbon, 1A1124
CURTI, G: Study of the forced response of a clamped circular plate coupled to a uni-dimensional acoustic cavity, 8A119

CURTIS, HD: Stress-based quadrilateral shear panel, 7A44
CURTISS JR, HC: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11
CURTISS, CF: Nonisothermal polymeric fluids, 10A1040
CURTISS, P: Building energy use prediction and system identification using recurrent neural networks, 3A1158
CUSCHIERI, A: Clamping the small intestine during surgery: Predicted and measured sealing forces, 2T1301
CUSCHIERI, JM: Open grid bridge noise from grid and tire vibrations, 8A244
- Scattering of sound by a fluid-loaded plate with a distributed mass inhomogeneity, 10A358
CUSHMAN, JH: Multi-scale theory of swelling porous media - I: Application to 1D consolidation, 2A1214
- Multiscale, hybrid mixture theory for swelling systems - II: Constitutive theory, 5A1206
- Multiscale, hybrid mixture theory for swelling systems - I: Balance laws, 5A1205
- Multiscale flow and deformation in hydrophilic swelling porous media, 7A1365
- Laboratory observation of nonlocal dispersion, 11A1321
CUSHMAN, R: Magnetic spherical pendulum, 1A86
- Geometry of nonholonomic constraints, 10A71
CUSICK, JF: Human head-neck biomechanics under axial tension, 11A1454
CUSUMANO, JP: Experimental study of bifurcation, chaos, and dimensionality in a system forced through a bifurcation parameter, 4A121
CUTHRELL, JM: Bulk flow pulsations and film cooling - II: Flow structure and film effectiveness, 11A1147
- Bulk flow pulsations and film cooling - I: Injectant behavior, 11A1146
CUTKOSKY, MR: Comparison of contact sensor localization abilities during manipulation, 12A433
CUTLAND, NJ: Nonstandard Methods for Stochastic Fluid Mechanics - Series on Advances in Mathematics for Applied Sciences, Vol 27, 11N43
CUTLER, A: Archetypal analysis of saptio-temporal dynamics, 7A1133
CUTLER, AD: Mixing of swirling jets in a supersonic duct flow, 6A962
CUTOLO, D: Heated chamber winding of thermoplastic powder-impregnated composites - Part 2: Influence of degree of impregnation on mechanical properties, 9A722
- Heated chamber winding of thermoplastic powder-impregnated composites - Part 1: Technology and basic thermochemical aspects, 9A721
CUTRONE, MB: Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, 10A1400
CUVALCI, O: Rating thread compounds for galling resistance, 5T788
CVETICANIN, L: Axial vibrations of the camshaft, 1A182
- Chaos in rotors with slowly varying mass, 2T73
- Approximate solution of a time-dependent differential equation, 5A65
CVETICANIN, LJ: Dynamics of plane motion of an elastic rod, 12A97
CYBO, J: Tribological properties of aluminum alloys with reinforcing phase (Polish), 6A840
CYBYK, BZ: Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, 12A67
CYGANKIEWICZ, J: 3nidimensional model of spontaneous fire in goaf or coal fissures (Polish), 3A1351
CYKOWSKI, W: Proportioning of I sections on account of their stability (Polish), 10A904
CYNIAK, D: Use of microfibers for the manufacture of fine yarns using rotor and ring spinning machines, 6T593
- Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, 6A178
- Assessment of the dynamic tension in open end spinning and parameters of yarns, 6A177
CYPHERS, C: High performance solution of partial differential equations discretized using a Chebyshev spectral collocation method, 12A62
CYRUS, V: Experimental investigation and performance analysis of six low flow coefficient centrifugal compressor stages, 5A1044
- Design of axial flow fans with high aerodynamic loading, 11A1054
CZAJKA, R: Manipulations with atoms and clusters, 6A313
CZAPLICKI, Z: New resilient and bulky nonwovens and their applications, 6T428
CZECH, M: Description of creep strain anisotropy of the lignostone in the form of tensor polynomial and a modified tensor polynomial, 9A496
CZECHOWICZ, MR: Experimental investigation of flow-induced acoustic oscillations in a piping system with closed branches, 1A297
CZECHOWSKI, Z: Theory of the antiplane stress evolution in 2D, 9A1381
- Stress evolution: Creep and dynamic patterns, 9A1380
CZEKALSKI, J: Frequency characteristics as a method of identifying incorrect operation of the drafting systems in spinning, 9A224
CZEPLAK, G: Estimation of atmospheric radiation from surface meteorological data, 11A1426
CZERNICHOWSKI, A: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191
CZERNIECKI, JM: Energy transfer mechanisms as a compensatory strategy in below-knee amputee runners, 10A1468
CZERNUSZKA, JT: Effect of two types of cross-linking on some mechanical properties of collagen, 2A1294
CZICHOS, H: Advances in tribology: The materials point of view, 5A796
CZIGANY, T: Comparison of the fracture and failure behavior of polypropylene composites reinforced by long glass fibers and by glass mats, 2A642
- Failure mode in dry and hygrothermally aged short fiber-reinforced injection-molded polyacylamide composites by acoustic emission, 12A753
CZKWANIANC, A: Influence of the concrete strength on the behavior of rigid joints in RC frames (Polish), 10A924
CZOLCZYNSKI, K: Stability of symmetrical rotor supported in flexibly mounted, self-acting gas journal bearings, 12A962
CZOPEK, K: Select problems reliability of the exploitation processing system of continuous operations, 3A1357
CZWOJDZINSKI, Z: Solar heat influence on distribution of stresses in RC rectangular tanks, 1A934

D

D'AMBROGIO, W: Regularization techniques for dynamic model updating using input residual, 9A69
D'AMBROSIO, P: Nonlinear elastic deformations and stability of laminated rubber bearings, 2A816
D'AMORE, A: Correlation between flexural and tensile fatigue response of short glass fiber reinforced plastics, 12A538
D'ANDREA-NOVEL, B: Control of nonholonomic wheeled mobile robots by state feedback linearization, 4A397
D'ANGELO, N: Experiments on ion-acoustic waves in dusty plasmas, 10A1185
D'ASARO, EA: Disacular flux and the rate of fluid mixing, 12A1151
D'ATTELLIS, CE: Trajectory tracking in nonlinear systems via nonlinear reduced-order observers, 2A274
D'AVENI, A: Response of non-classically damped structures in the modal subspace, 1A121
D'ELEUTERIO, GMT: Parametric motor control: A new approach to the control of point-to-point manipulator movements, 5A374
D'ERRICO, GE: Advanced ceramic tools: An experimental assessment in turning tests, 6A569
D'HAENE, P: Shear thickening in model suspensions of sterically stabilized particles, 12A1005
D'MELLO, C: Special issue on jack-ups, 2A790
DA CUNHA, FR: Shear-induced dispersion in a dilute suspension of rough spheres, 8A929
DA S MACHADO, VLS: Computational strategy for determining bifurcation diagrams for nonlinear oscillating systems, 8A79
DA SILVA FERNANDES, S: Expansions of the elliptic motion to high eccentricities, 7A307
DA SILVA, EC: Cylinders and rings hot upset forging analysis by the FEM (Spanish), 10A700
DA SILVA, JLG: Development of a tri-directional carbon fiber reinforced carbon composite for aerospace applications, 4A484
DA, REN: Sensitivity analysis algorithm for the state chi-square test, 6A276
DAALI, ML: Adequate ductility in steel beams under earthquake-type loading, 6A1277
- Low cycle fatigue damage assessment in steel beams, 8A689
DABAYEH, AA: Fatigue of cast aluminum alloys under constant and variable-amplitude loading, 9A758
DABBS, MF: Critical forcing for homoclinic and heteroclinic orbits of a rotating pendulum, 7A106
DABROWSKI, L: Method of friction torque measurement for a hydrodynamic thrust bearing, 5A1094
DABROWSKI, W: Influence of temperature on the performance of variable declining rate filters for drinking water, 9T1059
DACLES-MARIANI, J: Numerical and experimental study of a wingtip vortex in the near field, 2A1018
DACULSI, G: Dynamic compaction of calcium phosphate biomaterials, 3A1410
DADEBO, SA: Iterative dynamic programming for minimum energy control problems with time delay, 1A386
DADKHAH, MS: Compression-compression fatigue of 3D woven composites, 4A667
- Tensile failure of 3D woven composites, 11A689
DADONE, A: Two-dimensional methodology to predict vertical axis wind turbine performance, 3A1381
DADRAS, P: Bonding residual stresses in high-temperature composites, 8A851
DAEHLEN, M: Mathematical Methods for Curves and Surfaces, 2N54
- Approximation of scattered data using smooth grid functions, 1A68
DAEHN, GS: Effect of velocity on flow localization in tension, 8A429
DAEHNKE, A: Using dynamic photoelasticity to evaluate the influence of parting planes on stress waves interacting with stopes, 7A1370
DAEMEN, JJK: Rock Mechanics - Proc of 35th US Symp, Lake Tahoe, June 1995, 12N33
DAGAUT, P: Wide-range modeling study of n-heptane oxidation, 1A1337
- Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
- Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, 12A1310
DAGBASI, M: Fully plastic ductile tearing of HY130 steel: An analysis by j,COD, energy rate and crack opening angle, 3A689
DAGENHART, JR: Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, 4A1025
DAGGETT, DL: Development of an aviation fuel thermal stability test unit, 5A1243
DAGHER, HJ: Nonlinear FE analyses of RC skewed slab bridges, 1A890
DAGHYANI, HR: Mode-I fracture behavior of adhesive joints - Part II: Stress analysis and constraint parameters, 5A653
- Mode-I fracture behavior of adhesive joints - Part I: Relationship between fracture energy and bond thickness, 5A652
- Evaluation of mode-II fracture energy of adhesive joints with different bond thickness, 11A680
DAGUENET, M: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098
DAHAI, Y: Study on evaluation of circularity and related features for eccentric cam shaft - 2nd report: Measured results and discussion, 3A839
DAHAI, YU: Assessment of cylindricity and related features for crank shaft by 3D form measurement - 2nd report: Assessment of related features (Japanese), 2A334
DAHL, W: Effect of triaxial stress on mixed-mode fracture, 2A629
DAHLE, EA: Two-dimensional Weibull distribution and its application to rolling, 5A205
DAHLEH, MA: Robust l_p stability and performance, 5A300
- Asymptotic properties of set membership identification algorithms, 10T395
DAHLEN, FA: Ray theoretical analysis of Lg, 12A1368
DAHM, WJA: Experimental study of the fine-scale structure of conserved scalar mixing in turbulent shear flows - Part 1: Sc ≫ 1, 12A1153
DAHMANI, A: Numerical prediction of dynamic performance of vapor-compression heat pump using new HFC alternatives to HCFC-22, 12A1268
DAHOU, A: Experimental and numerical investigations on transient creep of porous chalk, 1A707
DAI PRA, P: Recurrent neural networks coupled with linear systems: Observability in continuous and discrete time, 10A390
DAI, DECHENG: Application of the improved BP network to rotating machinery fault diagnosis (Chinese), 6A353
DAI, DN: Formulation and implementation of the eigenstrain method employing higher order elements, 4A699
- Mechanics of Hertzian cracking, 5A614
DAI, FULONG: New method to determine the R-curve of ceramics fracture grating method, 9A856
DAI, GUANZHONG: Stochastic neural network and its application to multi-maneuvering target tracking, 6A297
DAI, JIAREN: Study on the thermodynamic properties and dehydration reaction kinetics of some salt-hydrates, 1A1159
DAI, JS: Finite twist mapping and its application to planar serial manipulators with revolute joints, 2A64
- Analysis of force distribution in grasps using augmentation, 8A351
DAI, MING: Shearing flow near a bypass with a ball in it, 9A1149
DAI, SHU-HO: Artificial neural network technology as a method to evaluate the failure bending moment of a pipe with a circumferential crack, 10A447
- Artificial neural network method for flawed pipe failure evaluation: Probabilistic models, 12A728
DAI, WENLONG: Iterative implementation of an implicit-explicit hybrid scheme for hydrodynamics, 8A67
DAI, XIAOWEN: Life prediction of the thrust chamber wall of a reusable rocket engine, 4A1271
- Modeling of power plant dynamics and uncertainties for robust control synthesis, 11A341
DAI, YH: Convergence properties of the Fletcher-Reeves method, 9A94
DAI, YINSHENG: Unigraphics software and ship CAD-CAM platform (Chinese), 9A1015
- Ship hull geometric modeling design and software system (Chinese), 9A1014
DAI, Z: Measurements of the structure of self-preserving round buoyant turbulent plumes, 11T971
DAIGLE, GA: Spatial coherence of a sound field in a refractive shadow: Comparison of simulation and experiment, 3A254
- Experiments on surface waves over a model impedance plane using acoustical pulses, 9A256
DAIKOH, Y: FEM analysis of torsional strength for twist drill, 1T15
DAILEY, LD: Simulation of laminar-turbulent transition with an explicit Navier-Stokes flow solver, 4A1091
DAJANI, EZ: Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, 6A1332
DAKAPPAGARI, V: Stretching a surface in a rotating power-law fluid, 5T881
DAKSHINA MOORTHY, CM: Nonlinear progressive failure analysis of laminated composite plates, 5A482
DALAEI, M: Natural vibration analysis of clamped rectangular orthotropic plates, 7A162
DALARD, F: Measurement of mass transfer across a moving mercury-electrolyte interface by an electrochemical method, 3A1201
DALAY, BS: Fine motion strategies for robotic peg-hole insertion, 7A443
- Synthesizing control systems for multi-dof manipulators, 9A464
DALE, BG: Examination of the quality engineering problems experienced in automotive product transfer, 2T325
- ISO 9000 series registration to European quality awards status: The key actions, 8T375
DALEY, R: Application of Kalman smoother theory to the estimation of 4DVAR error statistics, 8T1368
DALEY, S: Parity space approach to robust fault detection in generalized state space systems, 2A290
DALGLEISH, BJ: Fracture resistance measurement method for bimaterial interfaces having large debond energy, 1A814
DALIMUNTHE, HS: p-version least squares FE formulation for 3D, incompressible, non-isothermal, non-Newtonian fluid flow, 3A911
DALL'ASTA, A: Stability condition for an extensive class of viscoelastic motions, 1A476
DALL'OLIO, R: Friction factor and Nusselt number in flat tubes with rounded edges, 1A1177
DALMAZ, G: Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994, 7N24
DALMONT, JP: Aspects of tuning and clean intonation in reed instruments, 2A213
DALPATADU, RJ: Adaptive Bayes estimators for parameters of the Gompertz survival model, 7A68
DALPIAZ, G: Natural frequencies and modes of free-edge circular plates vibrating in vacuum or in contact with liquid, 6A211
DALSMO, M: Feedback control of a nonholonomic underwater vehicle with a constant desired configuration, 7A401
DALSTRA, M: Development and validation of a 3D FE model of the pelvic bone, 5A1364
DALTON, C: Force on a circular cylinder in an elliptical orbital flow at low Keulegan-Carpenter numbers, 1A247
- Interactions of vortex-induced vibrations of a circular cylinder and a steady approach flow at a Reynolds number of 13,000, 9A304
DALTON, PD: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
DALY, C: Electronic contributions to sliding friction, 4A841
DALY, SF: Probability distribution for peak stage on rivers affected by ice jams, 8A1402
DALZIEL, SB: Source-sink turbulence in a rotating stratified fluid, 2A989
DAMAREN, CJ: Adaptive control of flexible manipulators carrying large uncertain payloads, 8A356
DAMASKINSKAYA, E: Two-stage model of fracture of rocks, 10A695
DAME, LT: Inelastic Deformation of Metals: Models, Mechanical Properties, and Metallurgy, 5R16
DAMEAN, N: New numerical algorithm for temperature measurement based on the variational approach of an optimal control problem, 12A1249
DAMERON, RA: Probabilistic evaluation of concrete containment capacity for beyond design basis internal pressures, 2A1269
DAMIANO, ER: Singular perturbation model of fluid dynamics in the vestibular semicircular canal and ampulla, 7A1408
- Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, 11A1315
DAMJANIC, FB: Implementation of a nonlinear four node shell FE for thin multilayered elastic shells, 1A630
DAMRI, D: Development of a FE based strain accumulation model for the prediction of fatigue lives in highly stressed Ti components, 1A750
DAN, TK: Transient response of a parallel flow shell-and-tube heat exchanger and its control, 10A1313

DAN, WAKAKO: Local in time solvability of the Neumann problem of quasilinear hyperbolic parabolic coupled systems, 3A1174
DANAI, K: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
DANCEY, CL: Beam waist-focus misalignment error estimates in laser Doppler anemometry, 2A1066
DANCYGIER, AN: Soft layer to control soil arching above a buried structure, 9A680
DANCYGIER, O: Damage tolerance of thick hybrid composite plate containing a local hemispherical damage, 7A850
DANDAPAT, BS: Flow of a power-law fluid film on an unsteady stretching surface, 8A901
DANDEKAR, K: Investigation of the mechanics of tactile sense using 2D models of the primate fingertip, 9A1459
DANE, JH: Two approaches to modeling unstable flow and mixing of variable density fluids in porous media, 11A1326
DANESI, R: Thin-walled prestressed concrete members under combined loading, 8A757
- Coupled plastic-damaged model, 8A607
DANESI, RF: Dynamic analysis of thin-walled and variable open section beams with shear flexibility, 1A595
DANG VAN, K: Finite pure bending of curved pipes, 12A593
DANG, LE SI: Piezoelectric effect in strained CdTe-based heterostructures, 6A513
DANG, T: Euler-based inverse method for turbomachine blades - Part 1: Two-dimensional cascades, 4A1114
DANGLA, P: Macroscopic model of the swelling phenomenon of a saturated clay, 4A603
DANIALI, HRM: Isotropic design of two general classes of planar parallel manipulators, 4A856
DANIAU, W: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347
DANICKI, E: Generation of elastic waves in a piezoelectric plate by interdigital transducers, 1A206
- Spurious bulk wave excitation in saw grating reflectors on GaAs (001) (110), 1A209
- Approximation to surface admittance of Y-rotated langasite, 1A191
- Coupled backward waves in certain planar doubly periodic systems, 3A178
- Piezoelectric interfacial waves in langasite and dilithium tetraborate, 9A276
DANIEL SHEU, D: Ultra-reliable board identification system, 10T475
DANIEL, DE: Hydraulic conductivity of desiccated geosynthetic clay liners, 8A534
DANIEL, E: Effects on the injection of droplets on a stationary shock wave in a nozzle (French), 1A1037
- Droplet break-up through an oblique shock wave, 7A282
DANIEL, IM: New compression test method for thick composites, 2A453
- Acoustic emission study of failure mechanisms in ceramic matrix composite under longitudinal tensile loading, 4A775
- Thermoelastoplastic analysis of a filamentary metal matrix composite, 8A1231
DANIEL, JL: Computation of thin structures at large strains and large rotations using a simple C^0 isoparametric three-node shell element, 3A545
DANIEL, RW: Measurement system for the recognition of arm gestures using accelerometers, 2A1291
- Fast, robust solution to the Stewart platform forward kinematics, 11A381
DANIEL, WJT: Three-component force balance for flows of millisecond duration, 8A1043
DANIELS, PG: Finite-amplitude patterns of convection in a rectangular-planform container, 12A1042
DANIEWICZ, SR: Plane strain crack growth models for fatigue crack growth life predictions, 7A778
DANILA, EB: Generalized Debye series expansion: Treatment of the concentric and nonconcentric cylindrical fluid-fluid interfaces, 5A233
DANILOVA, GN: R113 boiling heat transfer modeling on porous metallic matrix surfaces, 8A1152
DANISHEVSKYI, V: Two-point quasifractional approximants for effective conductivity of a simple cubic lattice of spheres, 11A1197
DANKOWICZ, H: Local models of spatio-temporally complex fields, 8A988
DANKS, J: Hardening interaction in cyclic creep of a type 316 stainless steel at 20°C and 500°C, 10A753
DANO, ML: Response of unsymmetrical laminates to simple applied forces, 8A510
DANYLUK, HT: Note on the torsion of a non-homogeneous solid by an annular disc, 1A473
- Reissner-Sagoci problem for a nonhomogeneous half-space with a penny-shaped crack, 2A615
- Contact problem of a pair of flat rectangular stamps resting on an elastic half-space, 3A432
- Plastic zones in an orthotropic plate of finite width containing a Griffith crack, 12A746
DAOJI, M: Experimental investigation and theoretical analysis of large miter gates, 2A778
DAOUTIDIS, P: Feedback control of two-time-scale nonlinear systems, 10A419
DARABSEH, TT: Analytical solution for transient laminar fully developed free convection in open-ended vertical concentric porous annuli, 3T1069
DARBY , SE: Numerical simulation of widening and bed deformation of straight sand-bed rivers - I: Model development, 9T1054
DARBYSHIRE, AG: Robust estimation of tangent maps and Liapunov spectra, 6A106
DARCHUK, AI: Kinetics of fatigue development of interacting plane cracks in a 3D body (Russian), 3A674
DARCOVICH, J: Design of kinematically isotropic rolling robots with omnidirectional wheels, 2A296
DARDEN, LA: Flow visualization during multiple-axis motions using a wind-driven manipulator, 7A1176
DAREVSKII, VM: Static boundary conditions in the classical theory of shells and plates, 7T608
DARGUSH, GF: Dynamic analysis of viscoelastic fluid dampers, 2A148
- Behavior of metallic plate dampers in seismic passive energy dissipation systems, 7A1375
DARI, EA: Optimization strategies in unstructured mesh generation, 12A48
DARINSKII, AN: Elastic wave resonance reflection from a thin solid layer in a crystal, 12A226
DARIO, P: Fluid handling system for a chemical microanalyzer, 10T458
DARIPA, P: Investigation of some pattern selection issues in the rising plane Taylor bubble problem, 2A979
DAROT, M: Surface electrical properties to spontaneous potentials in porous media, 11A1332
DAROUACH, M: Parameter identification approach using optimal exciting trajectories for a class of industrial robots, 7A460
DARRACQ, D: Simplified model and Navier-Stokes calculations for hypersonic air intakes design, 11A919
DARRAS, O: Anisotropic elasticity of oriented polyethylene materials, 5A417
DARVE, F: Yield surfaces and principle of superposition: Revisit through incrementally nonlinear constitutive relations, 5A437
DARVISH, M: Fatigue crack growth studies under combination of single overload and cyclic condensation environment, 2A586
DARVIZEH, A: Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, 11A121
DARVIZEH, M: Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, 11A121
DARWIN, D: Splice strength of high relative rib area reinforcing bars, 7A958
- Development length criteria for conventional and high relative rib area reinforcing bars, 11A750
DARWISH, M: Influence of wall conduction on mixed convection heat transfer in externally finned pipes, 1A1201
- Laminar-mixed convection heat transfer in externally-finned pipes, 8A1093
- New approach for building bounded skew-upwind schemes, 9A1307
DAS , SK: Transient response of a parallel flow shell-and-tube heat exchanger and its control, 10A1313
DAS, A: Numerical analysis of the vortical flow around a delta wing-canard configuration, 1A1104
DAS, AN: Trifurcation of a crack due to plane SH-waves in an infinite elastic medium, 2A668
- Skew crack extension due to tearing of an elastic half-space, 9A787
DAS, NC: Power law fluid model incorporated into elastohydrodynamic lubrication theory of line contact, 12T1192
DAS, PK: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
- Frame tripping in ring stiffened externally pressurized cylinders, 7A632
DAS, S: Evaluation of wear of turning carbide inserts using neural networks, 12A904
DAS, SK: Hyberbolic axial dispersion model: Concept and its application to a plate heat exchanger, 1A1254
- Adhesion and hydrodynamic removal of colloidal particles from surfaces, 7A1034
DAS, UN: Mass transfer effects on flow past an impulsively started infinite vertical plate with constant mass flux: An exact solution, 8A1245
- Transient free convection flow of an elastoviscous fluid past an infinite vertical plate, 9A1256
DASCALAKI, E: Predicting single sided natural ventilation rates in buildings, 4A1226
DASCALU, C: Thermoelastic material-momentum equation, 2A1152
DASGUPTA, A: Layer-wise analysis for free vibration of thick composite cylindrical shells, 2A119
- Simulation of the influence of manufacturing quality on reliability of vias, 3A419
- Reliability issues in plated-through-holes due to insertion-mount complaint-pin connectors, 3A858
- Nonlinear multi-domain stress analysis method for surface-mount solder joints, 12A480
DASGUPTA, B: Modification and damping of Alfven waves in a magnetized dusty plasma, 3A980
- Constructive predictor-corrector algorithm for the direct position kinematics problem for a general 6-6 Stewart platform, 12A86
DASH, RK: Estimation of increased flow resistance in a narrow catheterized artery: A theoretical model, 12A1473
DASH, SK: Numerical visualization of convective heat transfer from a sphere with and without radial mass efflux, 3A1021
DASH, SM: Upwind unstructured scheme for 3D combusting flows, 11A1297
DASHEVSKII, IN: Qualitative estimates of gas-filling crack growth, 10A769
DASSIOS, G: Point source excitation in direct and inverse scattering: The soft and the hard small sphere, 1A328
- Elastic Herglotz functions, 2A152
- Inverse scattering for the penetrable ellipsoid and elliptoidal boss, 9A363
DATAR, GV: Acoustical characteristics of fabrics in high-intensity ultrasound, 12A289
- Acoustic properties of fabrics in low-intensity ultrasound, 12A288
DATE, AW: Complete pressure correction algorithm for solution of incompressible Navier-Stokes equations on a nonstaggered grid, 12A1052
DATTA, A: Atmospheric lee waves, 6A934
- Partially decentralized adaptive control of interconnected systems with improved performance, 12T341
DATTA, AK: Analysis of free undamped vibration of beams of varying cross-section, 8A106
DATTA, D: Application of multi dimensional cluster analysis in identification of defects in fiber composites, 2A696
DATTA, PK: Static and dynamic behavior of square plates with inhomogeneity subjected to non-uniform edge loading: Compression and tension, 8A19
- Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, 8A521
- Free vibration analysis of rectangular Mindlin plates with elastic restraints uniformly distributed along the edges, 11A114
- Static and dynamic elastic behavior of damaged plates subjected to local inplane loads, 11A549
DATTA, S: Techniques to isolate dolphin whistles and other tonal sounds from background noise, 6A262
DATTA, SK: Ultrasonic wave propagation through a cracked solid, 4A239
- Evaluations of Cauchy principal value integrals and weakly singular integrals in BEM and their applications, 9A101
DATTA, TK: Performance of base isolation systems for asymmetric building subject to random excitation, 2A1244
- Numerical analysis of neck formation in tensile specimens, 6A552
- Stochastic response of piping systems with flexible supports, 7A143
- Response of overground pipelines to random ground motion, 11A1406
DATTAGURU, B: Elastoplastic contact stress analysis of joints subjected to cyclic loading, 12A990
- Analysis of a cracked lug loaded by an interference fit pin, 12A734
- Generalized modified crack closure integral and its application to interface crack problems, 12A777
DAUCHEZ, P: Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentations, 3A344
DAUD , AR: Effect of element additions on wear property of eutectic aluminum-silicon alloys, 12A901
DAUER, JP: Null controllability of nonlinear infinite delay systems with time varying multiple delays in control, 10A389
DAULAY, H: Integral equation analysis of coupled seepage and convective dispersion, 8A1306
DAUSKARDT, RH: Quantitative stress mapping in alumina composites by optical fluorescence imaging, 6A465
DAVALOS, JF: Local deck effects in stress-laminated T-system timber bridges, 4A819
- Progressive failure analysis of laminated composite beams, 10A802
DAVALOS-O, LA: Natural convection in a rotating fluid layer with deformable free surface, 3T1043
DAVARAN, A: Analysis of pantograph foldable structures, 7A967
DAVEY, A: Linear instability of elliptic pipe flow, 12A1138
DAVEY, K: Source-weighted domain integral approximation for linear transient heat conduction, 10A1297
DAVI, F: Plane progressive waves in anisotropic constrained materials with an application to Kirchhoff plate-like bodies, 4A240
- Dynamics of linear anisotropic rods, 6A124
DAVID YOUNG, K: Co-states for sliding mode design in linear systems, 11T289
DAVID, J: Effect of the annular arrangement on the steady Poiseuille flow, 11A956
DAVID, T: Determination of the curvatures and bending strains in open trileaflet heart valves, 2T1313
- In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion, 6T1338
- Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, 8A1436
DAVIDAI, G: Change in trabecular architecture as measured by fractal dimension, 10A1461
DAVIDSON, BD: Effect of interlayer modulus on fracture mode ratio for interleaved composite laminates, 2A646
- Three-dimensional analysis of center-delaminated unidirectional and multidirectional single-leg bending specimens, 3A703
- Three dimensional analysis and resulting design recommendations for unidirectional and multidirectional end-notched flexure tests, 4A511
- Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, 8A645
DAVIDSON, JH: Measured performance and modeling of an evacuated-tube, integral-collector-storage solar water heater, 3A1384
- Oscillatory electrohydrodynamic gas flows, 5A983
DAVIDSON, JK: Two-dimensional formulation for path-placement in the workcells of planar 3-R robots, 5A369
- Limits at Σ_3 in a new formulation for path-placement in the workcells of planar 3-R robots, 5A365
DAVIDSON, JS: Shear buckling coefficients of plate girder web panels, 9A629
DAVIDSON, L: Modified collocated SIMPLEC algorithm applied to buoyancy-affected turbulent flow using a multigrid solution procedure, 1A1223
- Pressure correction method for unstructured meshes with arbitrary control volumes, 7A62
- Pressure-based Euler scheme for transonic internal and external flow simulation, 9T1112
DAVIDSON, NC: Novel technique for determining the 3D spatial distribution of glass fibers in polymer composites, 3A499
DAVIDSON, PA: Magnetic damping of jets and vortices, 2A999
- Role of Ekman pumping in confined, electromagnetically-driven flows, 4A1097
DAVIDSON, RW: Strain distributions in adhesive wood joints, 11A849
- Finite element modeling of double lap wood joints, 11A20
DAVIDSON, TN: Generalized PI controllability, 8A261
DAVIES, AJ: Multiblock solution process for the equations of fluid dynamics on a network of transputers, 12A1061
DAVIES, AR: Moving spectral element approach to the dynamically loaded journal bearing problem, 7A65
DAVIES, AW: Fatigue shear strength of slender web plates, 2A578
- Residual strength of aluminum plate girders with scattered holes in the web panels, 7A968
- Numerical studies of fatigue induced by breathing of slender web plates, 11A774
DAVIES, G: Strength of welded T-DT joints in rectangular and circular hollow section under variable axial loads, 8A765
DAVIES, HA: Processing-property-microstructure relations in Fe-M-Nd-C (M = Cu, Ga, Nb, Al) based ingot magnets, 9T655
DAVIES, HG: Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, 9A1211
- Non-stationary responses of a nonlinearly coupled pitch-roll ship model under modulated excitation, 11A93
DAVIES, JM: Experimental verification of the generalized beam theory applied to interactive buckling problems, 7A652
DAVIES, MA: Transition from soliton to chaotic motion following sudden excitation of a nonlinear structure, 12A126
DAVIES, P: Resonant dynamics of an autoparametric system: A study using higher-order averaging, 8A160
- Slow-transition across instabilities in nonlinear dissipative systems, 11A97
- Influence of water absorption on transverse tensile properties and shear fracture toughness of glass-polypropylene, 12A755
DAVIES, PA: Flow generated by the rotation of a horizontal disk in a stratified fluid, 4A953
- Laboratory studies of a round, negatively buoyant jet discharged horizontally into a rotating homogeneous fluid, 8A967
DAVIES, PF: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
- Mechanism for heterogeneous endothelial responses to flow *in vivo* and *in vitro*, 5A1388
DAVIES, PH: Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, 1A1416
DAVIES, POAL: Piston engine intake and exhaust system design, 8A248
- Aeroacoustics and time varying systems, 8A246
DAVIES, R: Shear behavior of press-joining in cold-formed steel structures, 10A912
DAVIES, TG: Boundary element technique for geotechnical problems of incompressible soils, 4A611

DAVIES, TH: Circuit actions attributable to active couplings, 2A811
- Couplings, coupling networks and their graphs, 2A812
DAVINI, C: Microstructure and phase transitions in solids, 4T513
DAVIS, AMJ: Laminar pulsatile two-phase non-Newtonian flow through a pipe, 6A947
DAVIS, BL: Rehabilitation treadmill with software for providing real-time gait analysis and visual feedback, 11A1482
- Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, 12A1489
DAVIS, DC: Hydrodynamic instabilities in flat-plate-type fuel assemblies, 2A1273
DAVIS, EJ: Topographic features of cylinder liners: An application of 3D characterization techniques, 6T851
- Aerosol evaporation in the transition regime, 12A1338
DAVIS, GD: Plasma spray treatments for steel adherends, 8A855
DAVIS, HT: Transport processes in periodic porous media, 2A1217
DAVIS, LD: Discrete-time mixed-norm H_2/H_∞ controller synthesis, 11A277
DAVIS, LR: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
DAVIS, MR: Structures induced by periodic acoustic excitation of a diffusion flame, 3A1218
DAVIS, RH: Simultaneous sedimentation and coalescence of a dilute dispersion of small drops, 1A1038
- Hydrodynamic diffusion of suspended particles: A symposium, 9A1119
DAVIS, RL: Numerical simulations of flows in centrifugal turbomachinery, 2A1043
- Numerical simulations of unsteady transonic flow in turbomachines, 8A1034
- Unsteady multistage analysis using a loosely coupled blade row approach, 8A1027
DAVIS, RO: Elasticity and Geomechanics, 9R9
DAVIS, SD: Reexamination of the Bucaramanga, Columbia, earthquake nest, 6A1230
- April 9, 1993 earthquake in south-central Texas: Was it induced by fluid withdrawal?, 6A1271
DAVIS, SH: Long-wave morphological instabilities in directional solidification, 5A1170
DAVIS, TE: Special Issue: International workshop on biorobotics: Human-robot symbiosis, 12A1485
DAVOUDZADEH, F: Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, 4A950
DAVYDOVA, NN: Changes in the physically mechanical properties of polymeric fibrous composites affected by moisture and low temperatures (Russian), 2A435
DAVYSKIB, A: Possibility of gyroscopic stabilization of the rotation of a system of rigid bodies, 4A115
DAW, CS: Chaos in thermal pulse combustion, 5A1263
DAWE, DJ: Finite strip analysis of imperfect laminated plates under end shortening and normal pressure, 5A510
- Note on finite strip buckling analysis of composite plate structures, 9A627
DAWES, WN: Computational study of viscous effects on lobed mixer flow features and performance, 11A1072
DAWSON, C: High resolution upwind-mixed FEMs for advection-diffusion equations with variable time-stepping, 1A1309
DAWSON, DM: Partial state feedback controller for trajectory tracking of rigid-link flexible-joint robots using an observed backstepping approach, 2A315
- New design for model reference robust control using state-space techniques, 3A337
DAWSON, PR: Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, 1A520
- Consistent penalty method for contact between a deforming viscoplastic workpiece and a rigid tool, 4A457
- Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, 5A17
- Polycrystal plasticity modeling of bulk forming with FEs over orientation space, 6A455
- Aggregate size effect on the predicted plastic response of hexagonal close-packed polycrystals, 6A404
- State variable constitutive model for superplastic Ti-6Al-4V based on grain size, 10A540
- Simulation of texture evolution with FEs over orientation space - II: Application to planar crystals, 12A580
- Simulation of texture evolution with FEs over orientation space - I: Development, 12A579
DAWSON, TH: Markov description of wave-crest statistics, 8A194
DAWSON, TW: Singularity of the axially symmetric Helmholtz Green's function, with application to BEM, 2A45
- Integral representations for the axially symmetric Helmholtz Green's function, 2A42
DAY, AJ: Noise and vibration analysis of an S-cam drum brake, 7A203
DAY, AR: Algorithm for computing the effective linear elastic properties of heterogeneous materials: 3D results for composites with equal phase Poisson ratios, 1A564
DAY, IJ: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
DAY, MJ: Electrorheological fluid vibration damper, 1A120
DAY, RW: Engineering properties of diatomaceous fill, 6A525
DAY, SM: RMS response of a 1D half-space to SH, 11A1350
DAYO, A: Electronic contributions to sliding friction, 4A841
DAYUAN, X: Study of the vibrational behavior of a healing tibia using FE modeling, 12A1453
DDEL'ISOLA, F: Perturbation methods in torsion of thin hollow Saint-Venant cylinders, 8T380
DE ALMEIDA, AMO: Study of chaos in Hamiltonian systems via convergent normal forms, 7A116
DE ALMEIDA, SFM: Numerical analysis of asymmetrical-core two-mode fiber interferometers subjected to bending, 9T878
DE AMICI, A: Numerical analysis and design implications of the seismic behavior of one-story steel bracing systems, 6A1282
DE ANDRES, MC: Performance of direct-contact heat and mass exchangers with steam-gas mixtures at subatmospheric pressures, 6A1145
DE ANGELIS, M: Design of yielding or friction-based dissipative bracings for seismic protection of buildings, 1A1392
DE ARANTES E OLIVEIRA, ER: Boundary element method avoiding passages to the limit, 5A43
DE AZEVEDO, JLF: Two-dimensional and axisymmetric nozzle flow computations using the Euler equations, 4A1046
DE BAERDEMAEKER, J: Modeling procedure for linearized motions of tree structured multibodies - 1: Derivation of the equations of motion, 8A73
- Modeling procedure for linearized motions of tree structured multibodies - 2: Design of an active spray boom suspension on a spraying-machine, 8A74
- Design of a cascade controller for a flexible spray boom, 11A322
DE BOER, H: Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, 12A830
DE BOER, M: Survey on the inactive ion etching of silicon in microtechnology, 10T723
DE BOER, PCT: Electric probe measurements in the plume of an ion thruster, 6A1216
DE BOER, R: Propagation of acceleration waves in incompressible saturated porous solids, 4A1297
DE BOER, R: Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory, 6A1222
- Growth and decay of acceleration waves in incompressible saturated poroelastic solids, 12A225
DE BOER, R: Origins of the theory of consolidation: The Terzaghi-Fillunger dispute, 12A647
DE BORST, R: Gradient plasticity approach to FE predictions of soil instability, 1A704
- Numerical simulation of localization phenomenon using gradient plasticity and FEs, 1A522
- Observations on element performance in isochoric and dilatant plastic flow, 1A523
- Composite plasticity model for concrete, 5A464
- Gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials, 6A651
- Gradient plasticity in numerical simulation of concrete cracking, 10A828
DE BRUIN, HAR: Fluctuations of the horizontal wind under unstable conditions, 1T1407
DE CASTELLAR, MD: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
DE CASTRO, PT: Mechanical behavior of cementitious matrix composites, 10A570
DE CHIFFRE, L: Topographic investigation of the wear resistance of PTFE seals in sliding contact with ceramic materials, 8T798
DE CLERCK, JP: Assessment function for improving the accuracy of estimated modal parameters, 4A133
DE CLERCQ, D: Mechanical properties of the human heel pad: A Paradox resolved, 2A1296
DE COGAN, D: Inverse thermal modeling using TLM, 6A1128
DE CONTENCIN, FX: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766
- Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A768
DE DEENE , Y: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
DE FARIA ALVIM FILHO, D: Nonequilibrium reactive flows through convergent-divergent nozzle by the method of characteristics (Spanish), 3A949
DE FIGUEIREDO, RJP: Nonlinear Feedback Control Systems: An Operator Theory Approach, 6R9
DE FRANCA ARRUDA, JR: Space-frequency data compression method for spatially dense laser Doppler vibrometer measurements, 7A885
- Data compression method for the modal analysis of spatially dense laser vibrometer measurements, 10A242
DE FRANCO, R: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
DE FREITAS, JAT: Hybrid-Trefftz equilibrium model for crack problems, 7A861
DE GIROLAMO, P: Experiment on harbor resonance induced by incident regular waves and irregular short waves, 12A1029
DE GOEY, LPH: Numerical and experimental study of the no-emission of ceramic foam surface burners, 5A1216
- Numerical study of a premixed flame on a slit burner, 5A1258
- Modeling of confined and unconfined laminar premixed flames on slit and tube burners, 5A1257
DE GOEY, LPH: Modeling of burner-stabilized hydrogen-air flames using mathematically reduced reaction schemes, 5A1256
DE GORTARI, JC: Heat and Mass Transfer in Energy Systems and Environment Effects - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey, 9N31
DE GRANDIS, D: Surface mechanomyogram reflects muscle fibers twitches summation, 8T1442
DE GROOT, MB: Risk of dike failure due to flow slides, 7A1352
DE GROOT, PJ: Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, 7A890
DE HAAN, J: Mechanical properties of flexible knitted composites, 12A566
DE HALLEUX, B: Eddy current measurement of the wall thickness and conductivity of circular non-magnetic conductive tubes, 12A799
DE HOOP, AT: Transient analysis of the transmitting properties of a focused acoustic transducer with an arbitrary rim, 1A290
- Initial-value problems in acoustics, elastodynamics, and electromagnetics, 10A344
DE HOOP, MV: Beyond effective medium theory: Pulse stabilization for multimode wave propagation in high-contrast layered media, 7A232
DE HOOP, MV: Quasi-Monte Carlo integration over $S^6 \times S^6$ for migration × inversion, 12A1367
DE IORIO, I: Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, 9A708
DE JAGER, B: Experimental robustness study of a second-order sliding mode controller, 9A415
DE JONG, ECJN: Optimization of a miniature laser-EMAT system for pulsed ultrasonics, 10A862
DE JONGH, HJ: Inverse dynamics model for the analysis, reconstruction, and prediction of bipedal walking, 2A1290
DE KEE, D: Stress jump and network model, 8T863
- Comments on the solutions of boundary value problems in non-Newtonian fluid mechanics, 9A1037
DE KLERK, JH: L_2-approximation method for the numerical solution of singular integral equations, 1T74
DE KRAKER, A: Dynamics of a multi-dof beam system with discontinuous support, 4A120
DE KRAKER, A: Rubin's CMS reduction method for general state-space models, 4A202
DE KRAKER, A: Determination of global stability of steady-state solutions of a beam system with discontinuous support using manifolds, 8A81
DE KRAKER, A: Long-term structural dynamics of mechanical systems with local nonlinearities, 10A121
- Periodic solutions of a multi-dof beam system with impact, 11A110
DE LA BARRE, CM: Singularly weighted symplectic forms and applications to asteroid motion, 1A281
DE LA CHEVALERIE, DA: Viscous interaction phenomenon in hypersonic wedge flow, 4A1031
DE LA COLINA, J: Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, 11A1409
DE LA CRUZ, V: Macroscopic capillary pressure, 1A1353
DE LA HOZ, AP: Fractal behavior of triangular refined-derefined meshes, 11A48
DE LA LUZ, C: Effect of dielectric constant of the liquid phase of electrorheological Fluids, 7A1136
DE LAAT, TWG: Two-dimensional vortex motion in the cross-flow of a wing-body configuration, 6A898
DE LANGE, HC: Modeling of confined and unconfined laminar premixed flames on slit and tube burners, 5A1257
DE LARRARD, F: Compressive strength of structural fly ash concrete (French), 3A484
DE LEON, M: Geometry of uniformity in second-grade elasticity, 8A397
DE LEVAL, MR: Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, 6A1349
DE LIMA, BSLP: Portable FORTRAN programming tools in the development of a structural analysis program, 2A777
DE LIMBURG STIRUM, B: Eddy current measurement of the wall thickness and conductivity of circular non-magnetic conductive tubes, 12A799
DE LOOZE, MP: Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model, 8A1412
DE LOS RIOS, EDUARDO: Proceedings of a conference on cumulative damage under variable amplitude loading held at SIRIUS, April 3-7, 1995, 9A767
DE LOS RIOS, ER: Fatigue crack initiation and propagation on shot-peened surfaces in A316 stainless steel, 4A670
- Effect of grain size, strain and temperature on the monotonic stress-strain behavior of polycrystalline aluminum and Al alloys, 5A440
- Effect of grain size on fatigue crack growth in an aluminum magnesium alloy, 5A592
DE LOS RIOS, ER: Effect of grain size on the fatigue of commercially pure aluminum, 6A604
- Predicting fatigue life in commercially pure aluminum using a short crack growth model, 6A607
- Significance of crack tip deformation for short and long fatigue cracks, 10A740
- Variable amplitude loading of small fatigue cracks in 6261-T6 aluminum alloy, 10A735
DE LOS RIOS, ER: Overload effects in environmental hydrogen induced fracture, 11A646
- Model to predict the fatigue life of fiber-reinforced titanium matrix composites under constant amplitude loading, 11A635
DE LOS SANTOS, MA: Convolution application to determine the dynamic response of a railway track, 5A151
DE LUCA , L: Surfactant effects on the dynamics of a thin liquid sheet, 4A1071
DE LUCA, L: Viscous interaction phenomenon in hypersonic wedge flow, 4A1031
DE MARE, J: Tension distribution in multiple V-belt drives, 2A810
DE MARE, J: Prediction of fatigue life based on level crossings and a state variable, 3A656
DE MARIA, G: Attitude control for low lift-drag reentry vehicles, 12T381
DE MEESTER, B: Conditions for initiating the translation of a rigid cylinder in a tube, 12A878
DE MEESTER, P: Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, 11T252
DE MELO, FJMQ: Propagation of axisymmetric transverse waves along a thin-walled cylindrical pipe, 1A189
DE MEY, G: Recursive construction of particular solutions to a system of coupled linear partial differential equations with polynomial source term, 12AR3
DE MONTE, F: Analysis of free-piston Stirling engine-linear alternator systems - Part 1: Theory, 2A1192
- Analysis of free-piston Stirling engine-linear alternator systems - Part 2: Results, 2A1193
DE MORANT, J: Toward a geometric theory in the time-minimal control of chemical batch reactors, 2T258
DE NEEF, MJ: Effect of capillary forces on immiscible two-phase flow in heterogeneous porous media, 4A1304
DE NICOLA, C: Normal mode stability analysis of multiblock algorithms for the solution of fluid-dynamics equations, 8A910
- Rotating dissipation for accurate shock capture, 11T205
- Efficient computations using upwind biased schemes, 12A41
DE NICOLAO, G: Optimal design of robust predictors for linear discrete-time systems, 2T251
- Optimal robust filtering with time-varying parameter uncertainty, 8T270
DE OLIVEIRA COSTA, AM: Numerical analysis of asymmetrical-core two-mode fiber interferometers subjected to bending, 9T878
DE OLIVEIRA, RT: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304
DE OLIVERIA BOHBOT, R: Born-type schemes for the acoustic probing of 1D fluid media from time-harmonic planar reflection coefficients at two incidences, 6A258
DE PALMA, P: Cell-vertex adaptive Euler method for cascade flows, 4A973
- Critical analysis of multi-dimensional upwinding for the Euler equations, 6A895
DE PAULA GOMES, MS: Inertial effects on the retention of particles in the near wake of blunt obstacles, 10A1121
DE PESTEL, G: Fiber-ribbon positioning device, 6T348
DE POORTER, J: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
DE PORTU, G: High temperature friction and wear testing of silicon nitride ceramics, 5T809

DE ROECK, G: Three-dimensional six-noded FE containing a λ singularity, 1A42
DE ROECK, G: Two-dimensional four-noded FE containing a singularity of order λ, 8A49
DE ROECK, G: Two-dimensional five-noded FE to model power singularity, 8A25
- Finite element solution for elliptical cracks using the ICCI method, 8A681
- Family of elements with λ singularity, 12A36
DE ROO, R: Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures, 4A933
DE ROSA, MA: Dynamic behavior of slender beams with elastic ends carrying a concentrated mass, 5A117
- Optimized Rayleigh method and *Mathematica* in vibrations and buckling problems, 10A202
- Free vibrations of tapered beams with flexible ends, 11A108
DE RYCK, A: Inertial coating of a fiber, 9A1068
DE SAXCE, G: Rigid-plastic implicit *integration* scheme for analysis of metal forming, 8A552
DE SCHUTTER, J: Kinematic models for model-based compliant motion in the presence of uncertainty, 2A303
- Symbolic differentiation of the velocity mapping for a serial kinematic chain, 6A73
DE SILVA, CW: Adaptive control of an industrial robot retrofitted with an open-architecture controller, 9A452
DE SOUZA NETO, EA: Finite elasticity in spatial description: Linearization aspects with 3D membrane applications, 3A427
DE SOUZA NETO, EA: Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, 4A45
DE SOUZA NETO, EA: Computational framework for a class of fully coupled models for elastoplastic damage of finite strains with reference to the linearization aspects, 12A742
DE SOUZA, FA: Structure of highly sheared turbulence, 4A1082
DE SOUZA, R: Management of an assembly line: An investigation of product mix using simulation, 12A477
DE STEFANO, M: Evaluation of the inelastic response of systems under biaxial seismic excitations, 12A1402
DE STURLER, E: Reducing the effect of global communication in GMRES(m) and CG on parallel distributed memory computers, 4A89
- Incomplete block LU preconditioners on slightly overlapping subdomains for a massively parallel computer, 6A59
DE SWART, HE: Idealized long-term morphodynamic model of a tidal embayment, 8A1355
DE TOMMASI, D: Nonlinear elastic deformations and stability of laminated rubber bearings, 2A816
DE TOURREIL, C: Optimization of stresses in the end-fittings of composite insulators for distribution and transmission lines, 10A595
DE VARGAS, L: Influence of polymer conformation on the entrance length in capillary flow, 10A1053
DE VILLE, A: Properties of compressible gas flow in a porous media, 9A1357
DE VILLE, A: Airflow through beds of cereal grains, 9A1361
DE VILLIERS, HL: Physics of Creep, 8R10
DE VIN, LJ: Process model for air bending, 10A698
DE VISSCHER, J: Determination and parametric study of material damping in fiber reinforced plastics: A review, 6A148
DE VORE, CR: Numerical simulations of MHD wave excitation in bounded plasma slabs, 10A1189
DE VREE, JHP: Size effect predictions by fracture models for a refractory ceramic, 10A833
DE VRIES, J: Fracture and fatigue behavior of a high strength limestone concrete as compared to gravel concrete, 6A747
DE VRIES, M: Stability of river bifurcations in 1D morphodynamic models, 7T1050
DE VRIES, RW: Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures, 4A933
DE WAGTER, C: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
DE WILDE, WP: Computer Aided Design in Composite Technology V - Proc of 5th Int Conf, CADCOMP 96, Udine, Italy, July 1996, 12N20
- Determination and parametric study of material damping in fiber reinforced plastics: A review, 6A148
DE WIT, PJ: Effects of a liquefied mud bed on wave and flow characteristics, 8T880
DE WITH, G: Bed thickness and particle size distribution in three-body abrasion, 3A833
- Effect of erosional wear on strength and residual stress during shaping of ceramic multilayer capacitors, 3A659
DE WITH, G: Size effect predictions by fracture models for a refractory ceramic, 10A833
DE WITT, KJ: Simulation of overexpanded low density nozzle plume flow, 2A962
DE ZEEUW, PM: Development of semi-coarsening techniques, 8A53
DE, A: Two-dof manipulator with adjustable compliance capabilities and comparison with the human finger, 5A360
DE-OLIVE FERREIRA, L: Phugoid motion for grazing-entry trajectories at near-circular speeds, 10A327
DEALY, JM: Sliding plate rheometer studies of concentrated polystyrene solutions: Large amplitude oscillatory shear of a very high molecular weight polymer in diethyl phthalate, 6A871
- Effect of Taylor diffusion on the dynamic response of an on-line capillary viscometer, 8A869
DEANS, AC: Separation of fetal and maternal ECG complexes from a mixed signal using an algorithm based on linear regression, 1A1465
DEANS, WF: Stress analysis of drillstring threaded connection using the FEM, 2A10
DEAR, JP: Fracture model to study the effect of specimen size on the dynamic energy release rates, 11A692
DEAR, RG: Efficient algorithm for testing the quality of the output of random number generators, 1A71
DEATHE, AB: Stability of walking frames, 8A1451
DEB, A: Boundary element analysis of anisotropic bodies under thermo-mechanical body force loadings, 4A1236
DEBAILLEUX, C: Vibratory control of a centrifugal compressor - Adjustment measurement-computation: Choice of a surveillance method, 11T102
DEBEDA, V: Local multigrid refinement method for natural convection in fissured porous media, 5A1152
DEBISSCHOP, JR: Turbulent boundary layer in an adverse pressure gradient: Effectiveness of riblets, 10A1133
DEBNATH, L: Integral Transforms and Their Applications, 11N5
- Hydromagnetic pulsatile flow of a two-phase fluid, 8T993
- Note on the equivalence of Backlund transformations and the inverse scattering method for a class of nonlinear differential equations, 12A230
DEBONOS, A: Spectral method for estimation of nonlinear system parameters from measured response, 6A117
DEBOTTON, G: Bifurcation of orthotropic solids, 12A608
DEBRAY, F: Measurement of mass transfer across a moving mercury-electrolyte interface by an electrochemical method, 3A1201
DEBROY, T: Numerical prediction of fluid flow and heat transfer in welding with a moving heat source, 7A1227
DEBSKI, W: Information on elastic parameters obtained from the amplitudes of reflected waves, 1A208
DECARPIGNY, J-N: Analysis of the propagation of plane acoustic waves in passive periodic materials using the FEM, 3A291
DECHAMPS, PJ: Modeling the transient behavior of heat recovery steam generators, 4A1263
- Part-load operation of combined cycle plants with and without supplementary firing, 5A1038
DECHAUMPHAI, P: Adaptive FE technique for thermal stress analysis of built-up structures, 10A8
DECHERT, WD: Topological invariance of Lyapunov exponents in embedded dynamics, 7A117
DECKELNICK, K: Convergence of a FEM for non-parametric mean curvature flow, 5A4
DECKER, AJ: Automation of some operations of wind tunnel using artificial neural networks, 7T1198
DECORSO, M: Evolution of Westinghouse heavy-duty power generation and industrial turbines, 10A1384
DEDYKIN, IY: Criteria of dynamic loss of the shell stability (Russian), 3A554
DEEKS, AJ: Automatic computation of plastic collapse loads for frames, 12A853
DEFER, D: Superficial heat flux and temperature measurement on a wall (French), 11A1189
DEFRAIGNE, P: Link between the retrograde-prograde nutations and nutations in obliquity and longitude, 7A300
DEFRISE, M: Factorization method for the 3D x-ray transform, 3A741
DEGAETANO, AT: Comparison of daily solar radiation estimates for the NE US using the NE regional climate center and national renewable energy laboratory models, 3A1374
DEGANI, AT: Unsteady separation and heat transfer upstream of obstacles, 6A953
DEGANI, D: Systematic study of the correlation between geometrical disturbances and flow asymmetries, 9A1105
DEGERTEKIN, FL: Hertzian contact transducers for NDE, 6A706
DEGHEIDY, AR: Light transfer problem in turbid media with surface reflectivity, 10A295
- Light transfer problem in turbid media with surface reflectivity, 11A177
DEGIOVANNI, A: Theoretical study of the transient coupled conduction and radiation heat transfer in glass: Phonic diffusivity measurements by the flash technique, 2A1137
DEGIOVANNI, M: Multiple periodic solutions of asymptotically linear Hamiltonian systems, 8T89
DEGROOT, DJ: Undrained multidirectional direct simple shear behavior of cohesive soil, 7A693
DEGTYAREV, VP: Topical problems of strain-based fracture criteria, 6A679
DEGUCHI, A: Studies of super-smooth polishing on aspherical surfaces, 1A739
- Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), 9T736
DEHANT, V: Link between the retrograde-prograde nutations and nutations in obliquity and longitude, 7A300
DEHDASHTI, G: Barrel-vault space trusses shaped by positionioning, 6A771
DEHERI, GM: Effect of roughness on the behavior of squeeze film in a spherical bearing, 6A847
DEHGHAN, AA: Combined natural convection-conduction and radiation heat transfer in a discretely-heated open cavity, 8A1183
DEIAB, IM: Fracture analysis for pipes containing a finite-length axial part-through crack, 12A744
DEIBER, JA: Free damped oscillation of the linear visco-elastic material, 1A961
DEIF, AS: Sylvester's equation: Accuracy and computational stability, 4A363
DEININGER, WD: Performance comparisons of low-power arcjets, 4A1277
DEISSLER, RJ: Marangoni instability in a liquid layer with two free surfaces, 4A1067
DEJARNETTE, FR: Engineering interactive inviscid boundary-layer method for hypersonic flow, 5T899
- Matching inviscid-boundary-layer flowfields, 6A956
DEJUN, LI: Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, 6A18
DEKA, R: Transient free convection flow of an elastoviscous fluid past an infinite vertical plate, 9A1256
DEKKER, CJ: Local load stresses in cylindrical shells at plate clips, 10A611
DEKSNIS, EB: Geometry free of singularities for fusion duplex components, 11T800
DEKURA, T: Effect of additives on friction, wear, and iron fluoride formation under perfluoropolyether fluid lubrication in vacuum and various atmospheres containing oxygen, 10A985
DEL CASTILLO, UM: Computation of the most economical pipe diameter for pumping plant discharge (Spanish), 2T851
DEL GIUDICE, S: Finite element analysis of laminar-mixed convection in the entrance region of horizontal annular ducts, 8A1091
- Energy balances in CVFEM and GFEM formulations of convection-type problems, 12A1221
DEL PEZZO, E: Measurements of intrinsic and scattering seismic attenuation in the crust, 3A1310
- Site response from ambient noise measurements: New perspectives from an array study in Central Italy, 11A1398
DEL PIERO, G: Integral-gradient formulae for structured deformations, 1T448
DEL RIO, JI: One-dimensional model for the prediction of residual stress and its relief in welded plates, 9A517
DEL-CASTILLO-NEGRETE, D: Area preserving nontwist maps: Periodic orbits and transition to chaos, 8A76
DELABY, I: Drop deformation during elongational flow in blends of viscoelastic fluids: Small deformation theory and comparison with experimental results, 5A866
DELADURANTAYE, P: Fractal aggregates with fullerene-like monomers, 8A462
DELAEY, L: Fretting wear of mechanically alloyed Al-Fe and Al-Fe-Mn alloys, 11A648
DELAGE, P: Unsaturated soils-Sols non satures - Proc of 1st Int Conf, UNSAT 95, Paris, France, Sept 1995, 12N37
- Yielding and plastic behavior of an unsaturated compacted silt, 12A644
DELAHUNT, P: Clementine attitude determination and control system, 5A740
- Attitude determination and control of Clementine during Lunar mapping, 11A356
DELAIRE, JPG: Theoretical analysis of an airbag crash sensor, 5A339
DELALE, CF: Theory of embedded shock formation in rarefaction waves by homogeneous condensation, 8A212
DELANGE, HC: Steam injection: Analysis of a typical application, 5A1265
DELANNAY, F: Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, 1A537
DELAPLACE, A: Progressive damage in discrete models and consequences on continuum modeling, 6A634
DELAUNAY, D: Determination of temperature variable properties of composite materials: Methodology and experimental results, 10A582
DELAUNAY, JJ: Direct luminous efficacy and atmospheric turbidity: Improving model performance, 1A1425
DELCOMYN, F: Sense organs of insect legs and the selection of sensors for agile walking robots, 8A1413
- Performance of a muscle-like "leaky" pneumatic actuator powered by modulated air pulses, 11A394
DELE PENA, G: Analysis and computation of adaptive moving grids by deformation, 12A38
DELFAU, J-L: Chemical structure of atmospheric pressure premixed n-decane and kerosene flames, 3A1214
DELFAU, JL: Experimental study of extinction of nonadiabatic counterflow premixed flames, 10A1360
DELFIN, P: Effect of elastic mismatch on the growth of a crack initially terminated at an interface in elastic plastic bimaterials, 3A688
DELFINO, A: Effects of time-varying curvature on velocity profiles in a model of the coronary arteries, 8A1433
DELPOSSE, L: Devolatilization of coal particles in a flat flame: Experimental and modeling study, 1A1334
DELHAYE, JM: Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8, 9N22
DELHOMMEAU, G: Motion simulation of a cylinder at the surface of a viscous fluid, 8A1003
DELICHATSIOS, M: Measurements of particle flame temperatures using three-color optical pyrometry, 8A1283
DELICHATSIOS, MA: Critical conditions for upward flame spread and comparison with empirical flammability indices, 3A1230
DELIS, E: Dynamic soil-pile-foundation-structure interaction: Records and predictions, 9A679
DELL ISOLA, F: Extension of Kelvin and Brodt formulas, 11A411
DELL'ISOLA, F: Validity of Laplace formula and dependence of surface tension on curvature in second gradient fluids, 2T888
DELL, J: F117-PW-100 hybrid ball bearing ceramic technology insertion, 10A1010
DELLA CIOPPA, A: Genetic algorithms applied to the aerodynamic design of transonic airfoils, 1T1127
DELLA VALLE, G: Influence of amylose content on the viscous behavior of low hydrated molten starches, 11A855
DELLACORTE, C: Effect of Prolonged exposure to 750 deg/C air on the tribological performance of PM212: Self-lubricating composite material, 2T1061
- New tribological test for candidate brush seal materials evaluation, 6T836
DELLINGER, B: Detailed kinetic model of the high-temperature pyrolysis of tetrachloroethene, 8A1264
- High-temperature pyrolysis of hexachloropropene: Kinetic analysis of pathways to formation of perchloro-arylbenzenes, 11A1285
- High-temperature pyrolysis of 1,3-hexachlorobutadiene, 12A1316
DELLIS, M-A: Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, 1A537
DELMAS, A: Early initiation of natural convection in an open porous layer due to the presence of solid conductive inclusions, 3A1070
DELMAS, G: Slow calorimetry and heat of fusion of poly(4-methyl penteno-l), 11A1093
DELMAS, MPF: Desiccant aging and its effects on desiccant cooling system performance, 8A1208
DELOBELLE, P: Behavior and modelization of a 17 -12 SPH stainless steel under cyclic, unidirectional and bidirectional anisothermal loadings, 11A454
- Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part II: Modeling, 12A517
- Behavior and modeling of a 17 - 12 SPH stainless steel under cyclic, uni- and bidirectional, anisothermal loadings - Part I: Behavior, 12A516
DELONG, MA: SOR as a preconditioner, 4A91
DELP, SL: Tradeoffs between motion and stability in posterior substituting knee arthroplasty design, 1A1445
- Influence of muscles on knee flexion during the swing phase of gait, 10A1471
DELPLANQUE, J-P: Transcritical liquid oxygen droplet vaporization: Effect on rocket combustion instability, 8A1268
DELPLANQUE, JP: Transcritical vaporization and combustion of lox droplet arrays in a convective environment, 2A1114
DELSANTO, PP: Parallel processing approach to acoustic tomography, 9A386
DELUZIO, AJ: Stephen H Long and Squire Whipple: The first American structural engineers, 1A912
DELVILLE, J: Experimental testing of diffusion models in a manipulated turbulent boundary layer, 2A939
DEMBO, M: Numerical simulation of oil-droplet cleavage by surfactant, 11A1469
DEMENDY, Z: Effects of Hall currents and Coriolis force on Hartmann flow under general wall conditions, 5A979
DEMEO, ME: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395
DEMER, DA: Zooplankton target strength: Volumetric or areal dependence?, 1A312
DEMETRIOU, C: Fractional step method for mass transport in groundwater, 6A1190
DEMEY, S: Kinematic models for model-based compliant motion in the presence of uncertainty, 2A303

DEMIC, M: Optimization of characteristics of elasto-damping elements from aspect of oscillatory comfort and vehicle handling, 8A834
DEMIDOV, SA: US and Russian thermal control coating results in low Earth orbit, 7A992
DEMIN, VA: Mechanical quasi-equilibrium and thermovibrational convective instability in an inclined fluid layer, 8A1086
DEMIRAY, H: Finite axisymmetric deformations of elastic tubes: An approximate method, 2A360
- Non-symmetrical wave propagation in arteries, 3A1408
- Effect of quadrupole on bone remodeling, 7A1406
- Propagation of harmonic waves in an initially stressed thin elastic tube filled with an inviscid fluid, 10A245
- Quasi-linear constitutive relation for arterial wall materials, 12A2
DEMIRDZIC, I: Numerical method for coupled fluid flow, heat transfer and stress analysis using unstructured moving meshes with cells of arbitrary topology, 1A1224
DEMIREL, Y: Heat transfer through a low-pressure gas enclosure as a thermal insulator: Design considerations, 10A1286
DEMIRKALE, SY: Acoustical performance of the Grand Hall of the Ataturk Cultural Center, 1A335
DEMKOWICZ, L: Vibrations of a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, 3A138
- Scattering on a spherical shell: Comparison of 3D elasticity and Kirchhoff shell theory results, 3A136
- Entropy controlled adaptive FE simulations for compressible gas flow, 11T922
DEMOCRITOU, F: Analytical superposition approach to wall heat conduction under arbitary temperature perturbations for air-conditioning applications, 2A1123
DEMONT, ME: Hydrodynamics of scallop locomotion: Unsteady fluid forces on clapping shells, 12A1470
DEMOSTHENOUS, GA: Static and dynamic axial collapse of fiberglass composite automotive frame rails, 7A579
- Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, 7A558
- Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, 11A679
DEMPSEY, JP: Planar forcing of floating ice sheets, 2A1281
- Grain multiplication mechanism for the formation of transition zones in first year sea ice, 3A1393
- Asymptotic solutions for crack closure in an elastic plate under combined extension and bending, 3A709
- Radial cracking with closure, 7A865
DEMS, K: Optimal segmentation of beam and disk structures, 12A820
- Sensitivity analysis and optimal design for fiber reinforced composite disks, 12A839
DEMULSANT, X: Microstructural effects on small fatigue crack initiation and growth in Ti6A14V alloys, 6A606
DEMUREN, AO: Two-dimensional spatially developing mixing layers, 10A1157
DEN ADEL, H: Risk of dike failure due to flow slides, 7A1352
DEN HAAN, EJ: Compression model for non-brittle soft clays and peat, 9A662
DEN TOONDER, JMJ: Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, 3A943
DEN UIJL, J: Structural lightweight concrete: Recent research, 1A895
DENARDO, B: Investigation of parametric drive of a longitudinal gas-filled resonance tube, 7A324
DENDIEVEL, R: Steady-state power-law creep in "inclusion matrix" composite materials, 3A451
DENET, B: Numerical study of premixed flames parametric acoustic instability, 7A1335
DENG , JIANHUI: Automatic generation of unstructured quadrilateral mesh for complex domain (Chinese), 9A68
DENG , JIANXIN: Friction and wear behavior of Al_2O_3-TiB_2 composite against cemented carbide in various atmospheres at elevated temperature, 12A885
DENG , KESHUN: Explicit geometric stiffness matrix of quasi-conforming trapezoidal element and buckling analysis (Chinese), 9A642
DENG, BO: Normal six-dof motions of knee joint during level walking, 11A1457
DENG, CHANG-GEN: Tracing equilibrium paths of elastic plates under different loading paths, 4A552
DENG, G: Initial temperature evaluation for flash temperature index of gear tooth, 5T821
DENG, K: Phase coupling in orthogonal cutting, 10T707
DENG, KENG: Impulsive effects on global existence of solutions of semilinear heat equations, 9T1263
DENG, KESHUN: Quasi-conformal trapezoidal element for orthotropic thin plate and thin shell (Chinese), 8A44
DENG, XIAOMIN: Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid, 5A1193
DENG, XIAOTIE: Landmark selection strategies for path execution, 12T438
DENG, XL: Optimization of structures under technological casting constraints, 6A723
DENG, Y: Studies of thermokinetics in an adiabatic calorimeter - I: Design and testing of an adiabatic automatic calorimeter, 6A1065
DENG, YUANHUA: Boundary element monotone iteration scheme for semilinear elliptic partial differential equations, 12A51
DENG, Z: Information design for SAIL 1, 7A472
DENIAU, H: Numerical investigation of supersonic vortical flow about a missile body, 5A902
DENIER, JP: Temporal stability of a developing jet: A model problem, 5A959
- Weakly nonlinear wave motions in a thermally-stratified boundary layer, 11A983
DENISENKO, VA: US and Russian thermal control coating results in low Earth orbit, 7A992
DENISON, MK: Spectral-line weighted-sum-of-gray-gases model for H_2O/CO_2 mixtures, 3T1133
DENISON, MR: Modeling of dust entrainment by high-speed airflow, 12A1083
DENISYUK, IT: Stress state near a singular line of the interface, 10A515
DENMAN, KL: Biological-physical interactions in the upper ocean: The role of vertical and small scale transport processes, 2A1258
DENNEMAN, AIM: Bead-spring model incorporating cyclic structures, non-equal springs and beads with non-equal friction coefficients, 12A1008
DENNIS , SCR: Symmetrical flow past an accelerated circular cylinder, 8A963
DENNIS, JK: Study of wear resistance of a new brush-plated alloy Ni-Fe-W-S, 10A974
DENNIS, SCR: h^4 accurate vorticity-velocity formulation for calculating flow past a cylinder, 2A883
- Viscous oscillatory flow about a circular cylinder at small to moderate Strouhal number, 4A1047
- Methods of solution of the velocity-vorticity formulation of the Navier-Stokes equations, 5A892
DENNY, E: Mechanical behavior of a mammalian lung alveolar duct model, 5A1376
- Mathematical model for the morphology of the pulmonary acinus, 11A1462
DENOS, R: Investigation of the flow field downstream of a turbine trailing edge cooled nozzle guide vane, 11A1066
DENOYER, KK: Dynamic modeling and vibration suppression of a slewing structure utilizing piezoelectric sensors and actuators, 7A400
DENT, JC: Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, 7A1192
- Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, 8A1275
- Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, 8A1276
DEODATIS, G: Simulation of multi-dimensional Gaussian stochastic fields by spectral representation, 3A62
- Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, 8A602
- Seismic ground motion synthetics of the 1989 Loma Prieta earthquake, 10A1427
DEOLASI, PJ: Effects of damping on the parametric instability behavior of plates under localized edge loading: Compression or tension, 8A521
DEOSKAR, HS: Prediction of observed response of base-isolated structure, 10A1430
DEPAOLI, DW: Conceptual design of soil venting systems, 10T1456
DEPINTO, JV: Effect of turbulence on sediment deposition, 1A975
DEPOLLIER, C: Time-frequency analysis of a non-uniformly sampled signal with the Wigner-Ville transform: Application to the study of the gyroscopic motion of a projectile, 5A86
- Snoring: Linear stability analysis and *in vitro* experiments, 5A1366
DEPRIT, A: Numerical continuation of families of frozen orbits in the zonal problem of artificial satellite theory, 3A239
DER HAGOPIAN, J: Active control of flexible structures using a minimum number of components, 12A393
DER KIUREGHIAN, A: Coherency model for spatially varying ground motions, 6A1263
- Structural reliability methods for seismic safety assessment: A review, 10A889
DERAFSHI, Z: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
DERBY, JJ: Parallel computation of radiation view factors between two arbitrarily oriented surfaces, 7A1259
DERBYSHIRE, E: Genesis and Properties of Collapsible Soils - Series C: Math and Phys Sci, Vol 468, 9N14
DERBYSHIRE, SH: Stable boundary layers: Observations, models and variability - Part II: Data analysis and averaging effects, 2T1266
DERDOURI, A: Dual-reciprocity BE approach to 3D transient heat conduction as applied to materials processing, 8A1173
DEREZINSKI, S: Extra-insensitive input shapers for controlling flexible spacecraft, 8A326
DERKX, OR: Determination of the fixed bed wall heat transfer coefficient using computational fluid dynamics, 12A1256
DEROOIJ, NF: Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7, 6R16
DERUN, EN: Interaction of phase-shifted fields of two single-turn coils situated above a conducting medium, 9A870
DERUNOV, EK: Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, 5A985
- Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
DERVIEUX, A: Steady relaxation methods for unstructured multigrid Euler and Navier-Stokes solutions, 9A1094
DESAI, CP: Experimental and numerical study of buoyancy-induced flow and heat transfer in an open annular cavity, 10A1256
DESAI, CS: Application of non-associative hierarchical model for geologic materials for active earth pressure experiment, 1A701
- Disturbed state constitutive modeling based on stress-stain and nondestructive behavior, 8A5
- Interface model to describe viscoplastic behavior, 10A549
DESAI, NN: Inverse FE reduced mesh method for predicting multi-dimensional phase change boundaries and nonlinear solid phase heat transfer, 6A1127
DESAI, RC: Collision dynamics of fronts in the Kerteweg-de Vries-Burgers equation, 6A193
DESAI, YM: Finite element modeling of transmission line galloping, 1A143
- Perturbation-based FE analyses of transmission line galloping, 10A315
- Krylov-Bogoliubov and Galerkin methods for nonlinear oscillations, 10A108
DESANTES, JM: Acoustic boundary condition for unsteady 1D flow calculations, 5A282
DESANTES, JM: Study on independent effects of diesel engine operating conditions on nitric oxide formation and emissions through schematical combustion simulation, 7A1403
DESANTIS, RM: Motion-force control of robotic manipulators, 12A455
DESANTO, JA: Coordinate-spectral method for rough surface scattering, 10A261
- Coordinate-spectral method for rough surface scattering, 11A176
DESARAJU, G: Fluid dynamics study of the Trac™ catheter, 7A1411
DESAULNIERS, G: Shortest paths for a car-like robot maneuvering around obstacles, 12A440
DESAYI, P: Semi-empirical approach to predict shear strength of ferrocement, 1A892
- Quasi-empirical approach to shear strength of ferrocement trough section elements, 4A526
DESBAT, L: Efficient parallel sampling in vector field tomography, 3A295
DESBORDES, H: Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, 5A82
DESCHAMPS, CJ: Modeling of turbulent flow through intake systems of internal combustion engines: Large valve lifts, 8A953
DESERI, L: Simple and effective equilibrium models for vibration analysis of curved rods, 10A155
DESFORGES, MJ: Modal parameter identification using an unknown colored random input, 5A307
- Mode tracking during flutter testing using the modal assurance criterion, 8A227
DESHPANDE, AP: Processing characteristics in different semi-crystalline thermoplastic composites using process simulated laminate (PSL) methodology, 10A718
DESIDERI, J-A: Numerical computations of steady homenthalpic non-equilibrium flows, 1A25
DESJARDIN, M: Rich flammability limits in CH_3OH-CO-diluent mixtures, 7A1336
DESJARDIN, PE: Assessment of turbulent combustion submodels using the linear eddy model, 8A1252
DESLOUIS, C: Determination of the diffusion coefficients of iron and chromium in Pb-17Li, 1A1310
DESMET, C: Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, 7A228
DESMIER, G: Free-floating closed-chain planar robots: Kinematics and path planning, 7A433
DESOUTTER, L: Viscoelastic simulation of PET stretch-blow molding process, 12A511
DESSE, JM: Differential interferometry for studying hypersonic flows, 8A918
DESSIATOUN, S: Flow boiling heat transfer coefficients of R-134a in a microfin tube, 11T1168
DESTARAC, D: Rear fuselage flow studies on a modern transonic transport aircraft, 5A997
DESTEFANO, A: Hierarchical use of neural techniques in structural damage recognition, 7A804
DESTEFANO, J: Composite sandwich-structure optimization with application to satellite components, 8A708
DESTUYNDER, P: Nonlinear dynamics of test models in wind tunnels, 8A1056
DETASSIS, M: Toughness of interfaces from initial fiber-matrix debonding in a single fiber composite fragmentation test, 4A739
DETOURNAY, E: Mandel's problem revisited, 12A646
DETRICK, RS: Suppression of sea-floor-scattered energy using a dip-moveout approach: Application to the mid-ocean ridge environment, 11A1378
DETTORI, L: Nonlinear Galerkin method: The two-level Fourier-collocation case, 10A57
DETWILER, KP: Experimental and numerical studies of the aeroacoustics of axisymmetric supersonic inlets, 1A296
DEUTSCH, S: Structure of near-wall turbulence downstream of a wall mounted protrusion: An interesting Reynolds stress suppression phenomena, 9A1185
DEVANATHAN, R: Feedback linearization of a heat exchanger, 3A384
DEVAUX, J: Improved Gurson-type model for hardenable ductile metals, 1A502
DEVENISH, B: Effects of pre-stresses on the propagation of nonlinear surface waves in an incompressible elastic half-space, 7A227
DEVENPECK, M: Approximate model of surface ploughing by a rotating disc and other indenters, 10A988
DEVENPORT , WJ: Structure and development of a wing-tip vortex, 10A1207
DEVENPORT, WJ: Perpendicular blade vortex interaction, 2A194
DEVER, JA: Contamination and space environmental effects on solar cells and thermal control surfaces, 5A246
DEVILLE, M: Pulsatile flow of non-Newtonian fluids through arterial stenoses, 12A1476
DEVINE, KD: Parallel adaptive hp-refinement techniques for conservation laws, 12A79
DEVITA, P: Functional knee brace alters joint torque and power patterns during walking and running, 8A1448
DEVOLDER, S: Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, 11T252
DEVRIES, MJ: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252
DEVRIES, RI: Shape design for thin-walled beam cross sections using rational B splines, 4A860
DEWAN, A: Comparison of four turbulence models for wall-bounded flows affected by transverse curvature, 9T1192
DEWAR, WK: Fluid flow in loops driven by freshwater and heat fluxes, 2A1259
DEWBERRY, SR: Source scaling and moment estimation for the Pacific Northwest seismograph network using S-coda amplitudes, 3A1341
DEWHURST, TB: Use of imposed displacements to determine impact forces in a multiple blade shed incident, 5A1040
DEWITT, DP: Introduction to Heat Transfer, Third Edition, 10N35
DEWSON, T: Constitutive convolution and graph theoretical representations of thermodynamic processes: Thermal conduction, 3A1098
- Generalized autoregression and the analysis of dynamical processes, 7A109
DEXTER, EM: Overlapped K joints in circular hollow sections under axial loading: An investigation of the factors affecting the static strength using numerical modeling, 8A770
DEY, KN: Micropolar fluid model for blood flow through an artery with mild stenosis, 9A1451
DEY, S: Clear water scour at circular piers: A model, 6T881
- Propagation of torsional surface waves in viscoelastic medium, 8A173
- Torsional surface waves in nonhomogeneous and anisotropic medium, 10A249
- Propagation of torsional surface waves in a homogeneous substratum over a heterogeneous half space, 10A248
- Sediment pick-up for evolving scour near circular cylinders, 11A868
- Propagation of Rayleigh waves in a heterogeneous incompressible substratum over a homogeneous incompressible half-space, 11A168
DEYHLE, H: Disturbance growth in an unstable 3D boundary layer and its dependence on environmental conditions, 12A1140
DEZI, L: Modified age adjusted effective modulus method for composite beams with post-connected slab, 3A778
- Algebraic methods for creep analysis of continuous composite beams, 10A750
DEZZANI, MM: Hybrid ceramic bearings for difficult applications, 10A1011
DHANALAKSHMI, K: Computation of transonic flows with shock-induced separation using algebraic turbulence models, 3T914
- Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, 9A1107
DHANDE, SG: Method for characterization of machine-tools dynamic parameters for diagnostic purposes, 3A165

- Geometric modeling of manufacturing processes using symbolic and computational conjugate geometry, 5A383

DHAR, S: Prediction of force-time histories in thick steel plates due to penetration by tungsten rods at velocities of 1.5-2.5 km s^{-1}, 8A190

- Continuum damage mechanics model for void growth and micro crack initiation, 9A742

DHARAN, CKH: Model for the abrasive wear of fiber-reinforced polymer composites, 12A906

DHARANI, LR: Modeling of pressureless constant heating rate sintering of ceramic matrix composites, 3A454

- Analysis of an axisymmetric matrix crack with interfacial debond, 4A717
- Non-axisymmetric matrix cracking in unidirectional brittle matrix composites, 5A654
- Effect of transverse cracking on stiffness reduction of cross-ply laminates, 8A642
- Hybrid phenolic friction composites containing Kevlar pulp - Part I: Enhancement of friction and wear performance, 12A891
- Hybrid phenolic friction composites containing Kevlar pulp - Part II: Wear surface characteristics, 12A929

DHARMA RAO, V: Non-Darcy effects in natural convection heat transfer in a vertical porous annulus, 11T1156

DHARMARAJ, S: Free vibration studies of arches, 4T189

DHATT, G: Exact stability model of space frames, 11A546

DHAUBHADEL, MN: Numerical Developments in CFD - 1995 ASME/JSME Fluids Eng Conf, 1N4

DHAYAGUDE, N: Novel approach to reconfigurable control systems design, 12T375

DHINGRA, AK: Discrete and continuous variable structural optimization using tabu search, 1A869

- Topological optimization of truss structures using simulated annealing, 2A734
- Multiobjective design of actively controlled structures using a hybrid optimization method, 3A326
- Optimization of truss topology using tabu search, 4A793

DHIR, A: Assessment of tracked vehicle suspension system using a validated computer simulation model, 8A773

DHIR, VK: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 6, 3N37

- Experimental investigation of natural convection heat transfer in volumetrically-heated spherical segments, 8A1079
- Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, 11A1295

DHONDT, G: Axisymmetric substitute structures for circular disks with noncentral holes, 12A591

DHUMNE, A: Dynamic fracture under pressure and shear, 9A855

DI BLASI, C: Predictions of unsteady flame spread and burning processes by the vorticity-stream function formulation of the compressible Navier-Stokes equations, 1A1339

- Mechanisms of 2D smoldering propagation through packed fuel beds, 3A1236

DI ILIO, A: Experimental study on grinding of silicon carbide reinforced aluminum alloys, 10A715

DI LISIO, ROBERTO: Particle method for a self-gravitating fluid: A convergence result, 3A875

DI MAIO, FP: Modeling methane cool flames and ignitions, 3A1237

DI MARCO, P: Electric field effects on film boiling on a wire, 12A1231

DI MASCIO, A: Viscous-inviscid coupling in free surface ship flows, 3A899

DI PIETRO, L: Application of a lattice-gas numerical algorithm to modeling water transport in fractured porous media, 9A1350

DI PRISCO, C: Theoretical investigation of the undrained stability of shallow submerged slopes, 2A522

DI PRISCO, C: Time dependent mechanical behavior of loose sands, 10A650

- Mathematical interpretation of the volumetric instability of loose sands, 10A677

DI PRISCO, M: Compressive model for study of shear in thin-webbed RC and PC beams, 6A742

DI SCIUVA, M: Analysis of thick multilayered anisotropic plates by a higher order plate element, 4T561

- Large-deflection and stress analysis of multilayered plates with induced-strain actuators, 11A535

DI, XIAO: Spatial coherence of a sound field in a refractive shadow: Comparison of simulation and experiment, 3A254

DI, XU: Effective algorithm for measuring diastolic artery diameters, 1A1460

DIAKUNCHAK, IS: Combined cycle designed to achieve greater than 60 percent efficiency, 5A1270

DIAMANTAKIS, MT: NUMOL solution of time-dependent PDEs using DESI Runge-Kutta formulae, 2A39

DIAMANTIDIS, D: Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, 9A1415

DIAMOND , S: Properties of paste-rock interfaces and their influence on composite behavior, 4A480

DIAMOND, P: Collapsing effects in numerical simulation of a class of chaotic dynamical systems and random mappings with a single attracting center, 2A74

- Robustness of dynamical systems to a class of nonsmooth perturbations, 4T112

DIANI, JM: Micromechanical modeling of the transformation induced plasticity (TRIP) phenomenon in steels, 2A396

DIAO, XIAOXUE: Statistical model of residual strength and fatigue life of composite laminates, 2A581

- Nonequilibrium statistical theory of inhomogeneous damage, 2A666
- Statistical prediction of fatigue failure of fiber reinforced composite materials, 5A615
- Fatigue life prediction of composite laminates using a stress redistribution function, 9A757

DIAS DE CUNHA, R: Parallel Iterative Methods (PIM) pacakge for the solution of systems of linear equations on parallel computers, 6A65

DIAS, F: Spatial bifurcations of interfacial waves when the phase and group velocities are nearly equal, 1A105

- Rotational effects in the modulations of weakly nonlinear water waves over finite depth, 4A260
- Numerical study of capillary-gravity solitary waves, 8A196

DIAS, JP: Dynamics of flexible mechanical systems with contact-impact and plastic deformations, 4A104

DIAS, NL: Z-less stratification under stable conditions, 2T1264

DIATLOV, AV: Enhancement of convectional heat transfer due to bubbles rising, 11A1220

DIAZ, C: Semi-arid zones and their hydrological modeling: Rainfall-runoff (Spanish), 4T1340

DIAZ-CONTRERAS, RE: Green's function applied to solution of Mindlin plates, 11A529

DIBBLE, RW: Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation, 9R24

- Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, 11A1301

DICH, LZ: Concept of an accuracy of coordinate measuring machines, 6A366

DICICCO, M: Role of slip in the generation of acoustic instabilities in gas turbines, 6A1199

DICK, E: Multi-staging of Jacobi relaxation in multigrid methods for steady Euler equations - II, 1A1008

- Accuracy analysis of central schemes with artificial dissipation and upwind flux-difference TVD schemes for Navier-Stokes equations, 6A930
- Multigrid method with unstructured adaptive grids for steady Euler equations, 11A908

DICK, WD: Distinguishing between spherical and nonspherical particles by measuring the variability in azimuthal light scattering, 2A1202

DICKENS, PM: Research developments in rapid prototyping, 2T329

DICKERSON, RM: Characterization of SiC fiber (SCS-6) reinforced-reaction-formed silicon carbide matrix composites, 8A447

DICKERSON, SL: Observations of tension-compression asymmetry in the cyclic deformation of aluminum alloy 7075, 8A566

DICKEY, J: Loss factors of pipelike structures containing beads, 10A135

DICKEY, NS: Theoretical, computational, and experimental investigation of Helmholtz resonators with fixed volume: Lumped versus distributed analysis, 4T329

- Time-domain computational simulation of acoustic silencers, 5A280

DICKINSON , JT: Scanning conduction microscopic method for probing abrasion of insulating thin films, 4A848

DICKINSON, SM: Free vibration of a class of homogeneous isotropic solids, 5A112

- Vibration of annular, circular, and sectorial plates with cut-outs or on partial supports, 5A136
- Three-dimensional analysis of the free vibration of thick rectangular plates with depressions, grooves, or cut-outs, 10A192

DICKMAN, O: Fiber optic strain gauge linearization, 1A849

DICKO, A: New bifunctionalized additives for cold rolling emulsions, 10A1230

DICKSON, J: D-box fixture for testing stiffened panels in compression and pressure, 5A735

DICLELI, M: Seismic performance of single-span simply supported and continuous slab-on-girder steel highway bridges, 2A1246

- Fatigue-based methodology for managing impact on heavy-permit trucks on steel highway bridges, 3A155

DIDIER, F: Contribution of the van der Waals forces to the work of adhesion at metal-oxide interfaces, 11A843

DIDRY, O: Cracking and permeability of concrete under tension, 10A841

DIDWANIA, AK: Simulation of the quasi-static mechanics and scalar transport properties of ideal granular assemblages, 2T1203

DIEBELS, S: Dynamic analysis of a fully-saturated porous medium accounting for geometrical and material nonlinearities, 5A1306

DIEDERICKS, GPJ: Tortuosity and aerosity tensors for porous media, 4A1300

- Electrical conduction and formation factor in isotropic porous media, 12T1356

DIEGELE, E: Calculation of stress fields near inclusions by use of the fracture mechanics weight function, 5A405

DIEHL, S: Conservation law with point source and discontinuous flux function modeling continuous sedimentation, 9A1052

DIETERMAN, HA: Structural differences in wave propagation in discrete and continuous systems, 5A175

- Equivalent stiffness of a half-space interacting with a beam: Critical velocities of a moving load along the beam, 8A176
- Improved viscous boundary for dynamic soil-structure interaction, 10A686
- Wave propagation in a finite cascade of masses and springs representing a train, 12A202

DIETRICH, L: Experimental setup for tests under biaxial tension of anisotropic cruciform specimen, 10A843

DIETZ, P: Fabrication of high frequency gratings for high temperature, 2A326

DIETZ, V: Interaction between central programs and afferent input in the control of posture and locomotion, 12A1461

DIGESU, P: Diesel electro-injector: A numerical simulation code, 5A1072

DIGIROLAMO, RD: Nonlinear predictive control of feedback linearizable systems and flight control system design, 3A338

DIJKSTRA, HA: Bifurcation study of double diffusive flows in a laterally heated stably stratified liquid layer, 11A1259

DIJKSTRA, T: Genesis and Properties of Collapsible Soils - Series C: Math and Phys Sci, Vol 468, 9N14

DIKALENKO, VI: Heat and mass transfer and modeling of combustion of low-grade solid fuels and combustible industrial wastes in a fluidized bed, 1A1364

DIKANSKY, A: Reaction-diffusion equations, their approximations and Lyapunov functions, 4T1248

DIKEN, H: Precise trajectory tracking control of elastic joint manipulator, 11T317

DILLARD, DA: Physical aging behavior of high-performance composites, 3A685

- Evaluation of chemical aging-oxidation in high-performance composites using the Vickers micro-indentation technique, 8A472
- Cracked lap shear specimen revisited: A closed-form solution, 9A784
- Comparson of energy release rates in different membrane blister and peel tests, 11A842

DIMA, C: Reduction of vertical tail buffet response using active control, 11A1030

DIMAROGONAS, A: Vibration for Engineers, Second Edition, 10R8

DIMAROGONAS, AD: Crack identification in beams by coupled response measurements, 3A717

DIMENTBERG, M: Spectral density of a nonlinear single dof system's response to a white-noise random excitation: A unique case of an exact solution, 5A108

- Application of quasi-conservative averaging to a nonlinear system under nonwhite excitation, 5A104
- Pseudolinear vibroimpact systems: Non-white random excitation, 9A162
- Response of an SDOF system to periodic external and parametric excitations with random phase modulations, 11A768

DIMIROVSKI, GM: Modeling, simulation, and control of robots and robotized FMS, 1A424

DIMITRIENKO, YI: Theory and synthesis of advanced thermal-protective composite materials, 12A1288

DIMOTAKIS, PE: Measurements of scalar power spectra in high Schmidt number turbulent jets, 8A979

- Mixing in turbulent jets: Scalar measures and isosurface geometry, 12A1148

DIMOVA, S: Comparison and experimental verification of two techniques for friction force representation, 11A812

DIMOVA, SN: Lumped-mass FEM with interpolation of the nonlinear coefficients for a quasilinear heat transfer equation, 1A1342

DINARIYEV, OY: Hydrodynamic description of a multicomponent multiphase mixture in narrow pores and thin layers, 8A1312

DINC, OS: Redesigning mechanical systems for low wear using system dynamics modeling, 10T972

DINCER, I: Modeling the heat and mass transfer analysis during oil-frying of cylindrical sausages, 2A1125

- Exact modeling for thermal diffusivities of solid objects exposed to heating, 3A1103
- Approach for determining surface temperature distributions of solid objects subjected to heating applications, 4A1199
- Development of new correlations for forced convection heat transfer during cooling of products, 4A1141
- Total heat transfer coefficients for canned foods during sterilization, 4A1204
- Experiments on a new small-scale solar dryer, 5A1351
- Immersing cooling of large spherical produces: Thermal parameters, 10A1288
- Development of a new number (the Dincer number) for forced-convection heat transfer in heating and cooling applications, 11A1095
- Modeling study for moisture diffusivities and moisture transfer coefficients in drying of solid objects, 12A1264
- Perspective on thermal energy storage systems for solar energy applications, 12A1435

DINESH, KU: Post-buckling analysis of structures by three-parameter constrained solution techniques, 12A25

DINEVA-VLADIKOVA, PS: Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, 9A253

DING , PEIRAN: Implementation of updating element library of structural analysis program system (Chinese), 9T32

DING, CHENBUO: General solutions for coupled equations for piezoelectric media, 10A644

DING, D: Computation of 2D and 3D unsteady thermal non-Newtonian flows, 1A1209

DING, G: Analysis of spectral ratios for estimating ground motion in deep basins, 12A1374

DING, HAO-JIANG: Non-equivalence of the conventional boundary integral formulation and its elimination for plane elasticity problems, 10A527

DING, HAO-JIANG: Low cycle fatigue stress-strain relation model of cyclic hardening or cyclic softening materials, 10A732

DING, HAO-JIANG: Degenerate scales and BE analysis of 2D potential and elasticity problems, 11A58

- Non-equivalence of the conventional boundary integral formulation and its elimination for 2D mixed potential problems, 12A56

DING, HAOJIANG: Stochastic BEM in statistical analysis of moderately thick plates, 1A625

- Elasticity solutions of spherically isotropic cones under concentrated loads at apex, 7A621
- General solutions for coupled equations for piezoelectric media, 10A644
- Nonaxisymmetric free vibrations of a spherically isotropic spherical shell embedded in an elastic medium, 11A124

DING, HJ: Natural frequencies of an elastic spherically-isotropic hollow sphere submerged in a compressible fluid medium, 10A307

DING, HONGZHI: Nonequilibrium statistical theory of inhomogeneous damage, 2A666

DING, J: Analytical solutions for laminar fully developed flows in double-sine shaped ducts, 10A1248

DING, JL: Experimental study of the plastic yielding of rolled sheet metals with the cruciform plate specimen, 1A526

DING, LI: Acoustic dispersion and attenuation relations in bubbly mixture, 1A301

DING, LIANGJIAN: General solutions for coupled equations for piezoelectric media, 10A644

DING, S: Optimization of the adhesive joint losipescu specimen for pure shear test, 12A998

DING, WANZUN: Dynamic analysis of 3D lattice flat shells (Chinese), 11T120

DING, WEI: Accurate free vibration analysis of the completely free rectangular Mindlin plate, 7A151

- Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, 12A57

DING, XIAOJI: Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, 11A808

DING, Y: Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, 2A1109

- Dynamic instabilities of boiling two-phase flow in a single horizontal channel, 4T1179

DING, YAN: Equations of complete depth-averaged turbulence model in general orthogonal coordinates, 9A1193

DING, YQ: Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, 7A781

- Effect of impact and fatigue loads on the strength of plain weave carbon-epoxy composites, 7A553

DING, ZHENGZHONG: Problem of primary frost heave with frost penetration, 2A515

DING, ZHONG: Behavior of a gas cavity impacted by a weak or strong shock wave, 8A207

- Trailing-edge jet control of leading-edge vortices of a delta wing, 12A1171

DING, ZHONGHAI: Modeling of thermoelectric heat transfer in shape memory alloy actuators: Transient and multiple cycle solutions, 4A518

DING, ZHONGTAO: Numerical modeling of conduction-driven bulk evaporation and condensation processes with constant volume, 6A1108

DING, ZHOU: Natural frequencies of elastically restrained rectangular plates using a set of static beam functions in the Rayleigh-Ritz method, 1A151

- Natural frequencies of rectangular plates using a set of static beam functions in Rayleigh-Ritz method, 7A161
DINGWELL, JB: Rehabilitation treadmill with software for providing real-time gait analysis and visual feedback, 11A1482
DINGZHENG, CAI: New model of wall element (Chinese), 9T79
DINIZ, AE: Reducing the plunge cylindrical grinding time using acoustic emission monitoring, 7A754
DINKELACKER, F: Two stage ignition of a n-heptane isolated droplets, 5A1213
DINKLER, D: Active panel flutter suppression using self-sensing piezoactuators, 11A224
DINTZIS, FR: Shear-thickening and flow-induced structure in a system of DMSO containing waxy maize starch, 4A889
- Effects of thermomechanical processing on viscosity behavior of corn starches, 4A890
DINU, A: Direct boundary integral method for the 2D lifting flow, 3A908
- Direct boundary integral method for the 3D lifting flow, 4A1111
- Application of the BEM to the magneto-hydrodynamic duct flow, 5A56
DIOGO, AC: Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302, 5N27
DION, JL: Wing performance in moderate rain, 2A1026
DIPIETRO, SG: Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA, 7N12
DIRADDO, RW: Effect of die geometry and flow characteristics on viscoelastic annular swell, 4A445
DISCHLI, B: Stress determination by speckle interferometry (French), 4A774
DISDIER, C: Modeling the inelastic interphase in unidirectional composites, 4T533
DISIMILE, PJ: Determination of starting shock velocity in supersonic wind tunnel, 3T1010
- Transverse vorticity observations in large coherent structures, 4T1084
- Mixing characteristics of twin impinging circular jets, 4A1052
- Space vehicle propulsion systems: Environmental hazards of low earth orbit-lunar domain, 5A241
- Comparison of Baldwin-Lomax turbulence models for 2D open-cavity computations, 8T964
DISTANTE, A: Assessment of normal testis growth by quantitative texture analysis of 2D echo images, 1T1458
DISTELHOFF, MFW: Application of a strain gauge technique to the measurement of the power characteristics of five impellers, 5A1042
DITCHBURN, RJ: NDT of welds: State of the art, 12A803
DITLEVSEN, O: Structural Reliability Methods, 11R25
- Empirical stochastic silo load model - III: Reliability applications, 1A932
- Empirical stochastic silo load model - I: Correlation theory, 1A930
- Empirical stochastic silo load model - II: Data analysis, 1A931
- Integration of non-Gaussian fields, 9A116
- Partial summations of stationary sequences of non-Gaussian random variables, 9A119
DITRI, JJ: Stress distribution determination in isotropic materials via inversion of ultrasonic Rayleigh wave dispersion data, 11A414
DITTO, WL: Removal, suppression, and control of chaos by nonlinear design, 2A272
DITTRICH, P: Turbulent flow in an intake-manifold, 1A1082
DITTRICHOVA, L: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191
DIVAVIN, V: Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, 12A1229
DIVEEV, AI: Optimal choice of a variant of a technological product, 9T468
DIVINE, GW: Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, 10A1466
DIXIT, PM: Steady-state plane-strain cold rolling of a strain-hardening material, 3A609
- Die design for axisymmetric extrusion, 7A719
- Continuum damage mechanics model for void growth and micro crack initiation, 9A742
DIXON, AG: Determination of the fixed bed wall heat transfer coefficient using computational fluid dynamics, 12A1256
DJAFARI, V: Interfacial properties of microwave cured composites, 1A541
- In situ study of short-beam shear tests for composite materials, 7A596
DJAKOVICH, VV: Material testing by the method of dynamic indentation, 10A850
DJENIDI, L: Laser doppler anemometer measurements of turbulent boundary layer over a riblet surface, 10A1131
DJERASSI, S: Dynamic modal truncation-relaxation, 11A271
DJERIDANE, T: Velocity near-field of variable density turbulent jets, 10A1166
DJILALI, N: Scaling of separation bubbles, 4T1033
- Multiple-time-scale turbulence model computations of flow over a square rib, 8T951
- Experimental and computational assessment of windage losses in rotating machinery, 9A1239
- Accuracy and nonuniqueness aspects of numerical solutions of some natural convection problems, 10A1260
DJONDJOROV, PA: Invariant properties of Timoshenko beam equations, 4A538
- Conservation laws and group-invariant solutions of the von Karman equations, 8A112
DJORDJEVIC, D: Experimental verification of the MacCormack numerical scheme, 3A890
DJORDJEVIC, G: Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, 11A384
DJOUDI, MS: Strain-based FE for the out-of-plane vibration of curved beams, 3A38
- Natural frequencies of cylindrical shells using a shallow-shell FE, 3A135
DLOUHY, I: Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, 10A1334
- Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, 10A1335
DLUGOGORSKI, BZ: Direct modeling of flow of FENE fluids, 2A840
DLUZEWSKI, P: Geometry and continuum thermodynamics of movement of structural defects, 7A3
DMITRIEVA, EO: Experimental study of distribution of plastic deformations around the crack Apex under statical loading, 7A821
DMITRIYEV, AS: Evaporation heat and mass transfer in a system of monodisperse macroparticles, 10A1280
DO COUTO RAMOS FICO JR, NG: Two-dimensional and axisymmetric nozzle flow computations using the Euler equations, 4A1046
DO, PETE B: Properties of composite laminates reinforced with E-glass multiaxial non-crimp fabrics, 6A440
DOAK, PE: Fifth international workshop on tracked transit system noise, 1995: A summary of conclusions, 12A201
DOAN, KS: Space correlation measurements in a forced shear layer with wall injection, 12A1099
DOBBERTIN, J: Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, 11A1094
DOBES, F: Constitutive description of creep curves based on internal stress evolution, 3A450
DOBIS, JD: Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, 5A611
DOBKIN, SM: Heat and mass transfer and modeling of combustion of low-grade solid fuels and combustible industrial wastes in a fluidized bed, 1A1364
DOBKOWSKI, Z: Determination of critical molecular weight for entangled macromolecules using the tensile strength data, 5A865
DOBLARE, M: Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, 1A54
- Nonlinear transformation algorithm for the integration of the singular kernels in 3D BEM for elastostatics, 11A54
DOBOSZ, M: Polychromatic light interferometer for high-accuracy positioning, 5A386
DOBOVSEK, I: Material instabilities in rate-dependent solids, 10A550
DOBRODEYEV, VP: Calculations of thermodynamic processes in fuel-feed systems, 11A1296
DOBRY, R: Residual strength and large-deformation potential of loose silty sands, 6A534
DOBRZYNSKI, L: Elastic vibrations of planar and deterministic rough surfaces, 9A358
DOBSON, I: Chaos in a spacecraft attitude maneuver due to time-periodic perturbations, 12A268
DOCKTER, S: Simplified theory for de Ris flame over thick and thin fuel beds, 7A1308
DOCTORS, LJ: Influence of a bottom mud layer on the resistance of marine vehicles, 12A1163
DODD, B: Room temperature formability of particle-reinforced metal matrix composites: Forging, extrusion, and deep drawing, 2A557
DODD, KT: Model of blast overpressure injury to the lung, 6A1339
DODDS JR, RH: Inelastic response of a deep crack single-edge notch specimen under impact loading, 5A630
- Numerical investigations of 3D constraint effects on brittle fracture in SE(B) and C(T) specimens, 8A633
- Constraint effects on fracture toughness of impact-loaded, precracked Charpy specimens, 11A1419
DODGE , F: Feasibility demonstration of cryogenic fluid gauging for space vehicle applications, 2A1075
DODGE, F: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
DODIER, R: Building energy use prediction and system identification using recurrent neural networks, 3A1158
DOERING, CR: Shape and dimension of the Lorenz attractor, 3A101
DOERING, JC: Parametrization of orbital velocity asymmetries of shoaling and breaking waves using bispectral analysis, 5T203
DOERMANN, D: Heat transfer in open-cell foam insulation, 8A1181
DOGAN, ON: Effect of carbie orientation on abrasion of high Cr white cast iron, 4A840
DOGANGUN, A: Static and dynamic analysis of rectangular tanks by using the Lagrangian fluid FE, 8A785
DOGHRI, I: Numerical implementation and analysis of a class of metal plasticity models coupled with ductile damage, 3A479
DOGOPOLSKY, AA: Elastic properties of polymer systems reinforced with short organic fibers, 12A542
DOGRA, VK: Blunt body rarefied wakes for Earth entry, 1A1015
DOH, YD: Progressive failure analysis for filament wound pressure vessel, 5A760
DOHDA, K: Investigation into relationship between friction behavior and plastic deformation using a newly devised rolling-type tribometer, 5A774
DOHERR, K-F: Stable cross-type parachute with inflation aid, 1T925
DOHRMANN, CR: Dynamic programming approach for burnout-to-apogee guidance of precision munitions, 8T310
DOI, H: Analysis of unstarted supersonic flutter in cascade by semiactuator disk theory, 1T262
- Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
DOI, M: Effect of interaction of rodlike particles in semi-dilute suspensions under shear flow, 2A920
- Numerical simulation of heat transfer and fluid flow with thermal radiation between surfaces of arbitary shape, 4A1215
- Effect of added triblock copolymer on the nonlinear rheology of ordered diblock copolymer mesophases, 6A863
DOI, T: Development of a flexure-hinged translation mechanism driven by two piezoelectric stacks, 6A358
DOINIKOV, AA: Mutual interaction between a bubble and a drop in a sound field, 12A280
DOKAINISH, MA: Large displacement Lagrangian mechanics - Part I: Theory, 8A1
- Large displacement Lagrangian mechanics - Part II: Equilibrium principles, 8A2
DOKUMACI, E: Analysis of the near field acoustic radiation characteristics of two radially vibrating spheres by the Helmholtz integral equation formulation and a critical study of the efficacy of the "chief" overdetermination method in two-body problems, 4A303
- Prediction of the effects of entropy fluctuations on sound radiation from vibrating bodies using an integral equation approach, 4A304
- Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow, 10A379
- Subsystem approach for acoustic analysis of mufflers having identical perforated pipes, 12A290
DOKURNO, P: Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, 4A1138
DOLAI, DP: Interface wave diffraction by a thin vertical barrier submerged in the lower fluid, 5A207
- Interface waves due to a vertical cylindrical wavemaker in the presence of interfacial tension, 11A194
DOLAN, JD: Wood-floor vibration design criteria, 1A897
- Nonlinear shear-wall analysis, 3A1332
DOLAN, K: Finite aspect ratio effects on vortex shedding behind two cylinders at angles of incidence, 1A1064
DOLAN, MJ: Static *in situ* calibration of force plates, 8A1441
DOLEZ, N: Instability of a rotating shear layer in the transonic regime, 7A1077
DOLEZAL, A: Relativistic hydrodynamics and essentially non-oscillatory shock capturing schemes, 1A242
DOLGIREV, YE: Large-size flat heat pipes, 10A1320
DOLINSKI, K: Limit state reliability optimization accounting for geometric effects, 11A724
DOLINSKIY, AA: Heat transfer and hydrodynamics in an ensemble of bubbles on discharge of boiling liquid, 1A1232
DOLIPSKI, M: Analytical determination and computer investigation of loading distribution of drives of an armoured face conveyor with different number chain sprockets' teeth (Polish), 3A840
DOLL JR, C: Source characterization and fault plane determinations for M_{bLg} = 1.2 to 4.4 earthquakes in the Charlevoix Seismic Zone, Quebec, Canada, 6A1234
DOLLING, DS: Reduction of fluctuating pressure loads in shock and boundary-layer interactions using vortex generators, 3A942
- Nose cavity effects on blunt body pressure and temperature at Mach 5, 3A923
- Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, 4A990
- Reduction of fluctuating pressure loads in shock-boundary-layer interactions using vortex generators - Part 2, 6T951
- Experimental and numerical study of hypersonic forward-facing cavity flow, 12A1071
DOLOTOV, MV: Thermal shock at the boundary of a half-space in the case of axial symmetry, 2A1127
DOLZMANN, G: Microstructures with finite surface energy: The two-well problem, 6A415
DOMAGALA, J: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283
DOMANSKI, R: Laser processing: Numerical simulation of heat transfer phenomena, 3A1186
- Two-phase modeling in horizontal dividing T-junction with different branch diameters, 3A934
DOMANSKI, W: Asymptotic equations of geometrical optics for two models of hyperbolic heat waves, 3A9
DOMBLESKY, JP: Development and validation of a FE model for multiple-pass radial forging, 7A17
DOMBROVSKY, LA: Quartz-fiber thermal insulation: Infrared radiative properties and calculation of radiative-conductive heat transfer, 11A1208
DOMBROWSKI, N: Ducted air flow induced by multiple spray nozzles, 5A922
DOMINGO, P: Two-dimensional weak shock-vortex interaction in a mixing zone, 3A1220
DOMINGUEZ, J: Geometrically nonlinear formulations of beams in flexible multibody dynamics, 5A77
- Hypersingular BEM for transient elastodynamics, 10A271
- Geometrically nonlinear formulation of flexible multibody systems in terms of beam elements: Geometric stiffness, 10A80
- Randomness of fatigue crack growth under constant-amplitude loads, 11A656
DOMINGUEZ-HERNANDEZ, J: Nonlinear transformation algorithm for the integration of the singular kernels in 3D BEM for elastostatics, 11A54
DOMINGUEZ-RODRIGUEZ, A: Residual stresses around Vickers indents, 2A403
DOMINY, RG: Influence of blade wakes on the performance of interturbine diffusers, 11A1064
DOMMERMUTH, DG: Vortical structure of parasitic capillary waves, 5A206
DOMOKOS, G: Global, direct algorithm for path-following and active static control of elastic bar structures, 3A767
DOMOTO, Y: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737
DON, DL: Structural modeling and optimal control of electrorheological material based adaptive beams, 2A505
- Analytical and experimental investigation of Electrorheological material based adaptive beam structures, 7A910
DON, RC: Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, 8A1106
DON, WAI SUN: Numerical simulation of shock-cylinder interactions - Part I: Resolution, 5T216
DONALD, S: Experimental investigation of tensile fracture in polyurethane foams, 3A718
DONALDSON, KY: Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, 2A1122
DONALDSON, RM: Variation of the stress dependent magnetic flux leakage signal with defect depth and flux density, 12A804
DONALDSON, SL: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
DONAT, R: Capturing shock reflections: An improved flux formula, 9T292
DONELAN, PS: Real inflections of hinged planar four-bar coupler curves, 2A828
DONESCU, P: Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics, 11A94
- Global convergence characteristics of numerically evaluated Jacobian matrices, 12A127
DONG, BONIAN: Numerical approach to blade-vortex interaction in 2D viscous flow, 11T228
DONG, CONG: Distribution model of fatigue life and its goodness-of-fit test, 7A800
DONG, DEYUAN: Large deformation FE analysis of cylindrically bending of metal strips (Chinese), 11A12
DONG, GUISHU: Erosion of steel surfaces by grit-blasting as a preparation for plasma spraying, 12A721
DONG, GUO-HAI: Hybrid method for the simulation of wave spectrum transformation and breaking phenomena on a slope, 1A231
DONG, GUOQING: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820
DONG, HONGZHOU: Programming system of static strength reliability analysis for offshore platform structural system (Chinese), 9A905
DONG, JIAN: Time series models for vehicle random vibration simulation tests, 2A133

DONG, M: Modeling of metal matrix composites by a self-consistent embedded cell model, 11A471
DONG, QINGDE: Nonaxisymmetric acoustic field excited by a cylindrical tool placed off a borehole axis and extraction of shear wave, 7A314
DONG, SHOUFU: Approximate calculation of contraction of formed camber (Chinese), 8A550
DONG, WP: Two-dimensional fast Fourier transform and power spectrum for surface roughness in 3Ds, 2A712
- Topographic features of cylinder liners: An application of 3D characterization techniques, 6T851
DONG, XIANGHUAI: Elastic and crystalline-visco-plastic FE analysis of dynamic deformation of sheet metal, 11A584
DONG, YUKU: Anisotropic shear modulus of wood-based composite (Japanese), 12T531
DONG, YUXIN: Semi-analytic method for hydraulic computation of surge chambers (Chinese), 8A203
DONG, ZF: Numerical simulation of double diffusive convection in a V-shaped sump, 1A1305
- Forced convection in ducts with a boundary condition of the third kind, 3T1026
- Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, 5A915
- Heat transfer of air-water two-phase flow in helicoidal pipes, 11A1169
DONGHUI, XU: Expressions for predicting the residual stress in surface induction hardening of steel bars, 8A1233
DONGI, F: Active panel flutter suppression using self-sensing piezoactuators, 11A224
DONIZAK, J: Evaluation of covariance matrices in the multistage unified least-squares adjustment of the measurement results, 3A1200
DONMEZ, A: CMAC neural network control for high precision motion control in the presence of large friction, 5A340
DONNELLY, LJ: Compression ridges in subsidence troughs, 2T513
DONOHOE, SR: Surface reflective visualization system study to vortical flow over delta wings, 5A995
DONOHUE, JM: Complete 3D multiparameter mapping of a supersonic ramp fuel injector flowfield, 8A959
DONOSO, JR: Calibration function for notched cylindrical tension specimens, based on the common format equation: Numerical and experimental data analysis, 12A781
DONOVAN, A: On-line monitoring of cutting tool wear through tribo EMF analysis, 1A938
DONOVAN, JF: Pressure sensitive paint in transonic wind-tunnel testing of the F-15, 7A1200
DONTCHEV, AL: State constraints in the linear regulator problem: Case study, 4T360
- A priori estimate for discrete approximations in nonlinear optimal control, 12T358
DOOLAN, CJ: Modeling mass entrainment in a quasi-1D shock tube code, 11T1085
DOOLE, SH: Bifurcation of steady gravity water waves in (R,S) parameter space, 4A262
- Piecewise linear suspension bridge model: Nonlinear dynamics and orbit continuation, 10A212
DOONG, J-L: Large amplitude vibration of plates according to a higher order deformation theory, 6A136
DOPAZO, C: Detailed measurements in heavy oil and oil-water emulsion flames, 3A1226
DOPHEIDE, D: Comparison measurements for selection of suitable photodetectors for use in Nd: YAG LDA systems, 10A1238
DORAI-RAJ, DE: Correlation of measured and computed radiation intensity exiting a packed bed, 8A1179
- Spectral-directional emittance of oxidized copper, 10A1307
DORANTES, R: Mathematical simulation of a solar ejector-compression refrigeration system, 12A1431
DORDEVIC, VD: Fully developed turbulent flow and the friction law in pipes via asymptotic matching (Russian), 3A948
DORFI, HR: Ultrasonic stress measurements based on the generalized acoustic ratio technique, 6A697
DORFMAN, AS: Exact solution of nonsteady thermal boundary layer equation, 3T1018
- Advanced calculation method for the surface temperature distribution of turbine blades, 8A1065
DORFMANN , A: Three-dimensional FE for analyzing thin plate-shell structures, 3A546
DORFMANN, A: Parallel elastoplastic models of inelastic material behavior, 2A399
- Diffraction of waterwaves on a horizontal cylinder (Gorman), 10A294
DORI, D: Temporal database with data dependencies: A key to computer integrated manufacturing, 8A371
DORIGNAC, E: Experimental study of heat transfer coefficients in film cooling on a non-adiabatic wall: Effects of injection geometry (French), 8A1066
DORME, C: Focusing in transmit-receive mode through inhomogeneous media: The time reversal matched filter approach, 1A316
DORMIEUX, L: Macroscopic model of the swelling phenomenon of a saturated clay, 4A603
DORNBERGER, R: Optimal structural damping of skis using a genetic algorithm, 2A146
DORNBRACK, A: Turbulent boundary-layer flow over fixed aerodynamically rough 2D sinusoidal waves, 10A1177
DORNEICH, MC: Global optimization algorithms for chip layout and compaction, 6A368
DORNEY, DJ: Numerical simulations of flows in centrifugal turbomachinery, 2A1043
- Numerical simulations of unsteady transonic flow in turbomachines, 8A1034
- Unsteady multistage analysis using a loosely coupled blade row approach, 8A1027
- Hot-streak clocking effects in a 1-1/2 stage turbine, 11A1305
DORNFELD, DA: Burr-breakout model development and experimental verification, 10A710
- Modeling and analysis of acoustic emission in diamond turning, 11A597
DORNYAK, OR: Thermal and hydrodynamic characteristics of enforced flows of thixotropic liquids in long ducts, 5A1150
DOROFEEV, SB: Transition to detonation in vented hydrogen-air explosions, 3A242
- Deflagration to detonation transition in large confined volume of lean hydrogen-air mixtures, 7A309
DORONIN, VI: Balancing of spatial leverages, 5A844
DOROSH, NL: Heat and mass transfer in superheated vapor jet condensation, 1A1242
DORREPAAL, JM: Oblique flow impinging on a wall with suction or blowing, 9A1070
DORROH, JR: New 3D FE for adaptive h-refinement in 1-irregular meshes, 4A43
DORSEY, JF: Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, 11A325
DORTMANS, LJMG: Size effect predictions by fracture models for a refractory ceramic, 10A833
DOS SANTOS, VR: Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, 11A834
DOSEDEL, SB: Performance of graphite-epoxy composite with embedded optical fibers under compression, 11T474
DOST, S: Approach for determining surface temperature distributions of solid objects subjected to heating applications, 4A1199
- Time marching BEM for 2D incompressible thermally coupled flows, 5A1156
- Effect of quadrupole on bone remodeling, 7A1406
- Accuracy and nonuniqueness aspects of numerical solutions of some natural convection problems, 10A1260
- Propagation of harmonic waves in an initially stressed thin elastic tube filled with an inviscid fluid, 10A245
- Immersing cooling of large spherical produces: Thermal parameters, 10A1288
- Modeling study for moisture diffusivities and moisture transfer coefficients in drying of solid objects, 12A1264
- Perspective on thermal energy storage systems for solar energy applications, 12A1435
DOTY, DR: Improved method for gas lift allocation optimization, 1A1409
DOTY, KL: Structural kinematics of 6-revolute-axis robot manipulators, 11A387
DOU, LIXIN: Bayesian inference and Gibbs sampling in spectral analysis and parameter estimation - II, 9A123
DOU, XIAOHONG: Classification and branch identification of Stephenson six-bar chains, 7A1013
DOUCET, S: Changes in segment mass and mass distribution during pregnancy, 6T1330
DOUGHERTY, BP: Thermal performance of residential electric water heaters subjected to various off-peak schedules, 11A1236
DOUGHERTY, FC: Waverider design for generalized shock geometries, 5A907
DOUGHERTY, JD: Cyclic stress response, strain resistance, and fracture behavior of modified 1070 steel, 9A749
DOUGHTY, S: Single dof mechanism vibration near equilibrium, 7A1023
DOUGLAS, A: Real-time shared control system for space telerobotics, 1A413
DOUGLAS, AS: Effective electrical conductivity of nonlinear laminate composites, 1A556
DOUGLAS, CC: Detailed chemistry modeling of laminar diffusion flames on parallel computers, 3A1238
DOUGLAS, RJ: Robust fault detection filter design, 6A279
DOUGLAS, RW: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
DOUGLASS, RW: Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, 4A1163
DOUKHOVNI, I: Quadratic programming algorithms for obstacle problems, 10A521
DOUTE, C: Chemical structure of atmospheric pressure premixed n-decane and kerosene flames, 3A1214
DOVER , WD: Nondestructive Testing of Materials - Studies in Applied Electromagnetics and Mechanics, Vol 8, 11N34
DOVEY, P: Use of side-scan sonar for oceanographic investigations, 6A917
DOVGAL, AV: Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1006
DOVGYALO, VA: Effect of electrophysical activation of components of polymer composites on their adhesional interaction (Russian), 8A854
DOWDING, CH: Construction Vibrations - Prentice Hall International Series in Civil Engineering and Engineering Mechanics, 8R8
DOWELL, EH: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11
- Experimental investigation of 3D dynamic stall model oscillating in pitch, 2A1032
- Routes to escape from an energy well, 4A127
- Buckling and post-buckling behavior of a pipe subjected to internal pressure, 5A530
- Damping prediction for a stalled rotor in flap-lag with experimental correlation, 6A1037
- Experiments and analysis for a gust generator in a wind tunnel, 7A1199
DOWGWILLO, RM: Pressure sensitive paint in transonic wind-tunnel testing of the F-15, 7A1200
DOWLATI, R: Two-phase crossflow and boiling heat transfer in horizontal tube bundles, 8A1132
DOWLING, AP: Combustion oscillations in a twin-stream afterburner, 6A1200
- Oscillations of a moderately underexpanded choked jet impinging upon a flat plate, 11A975
DOWLING, PJ: Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part 1: An introduction to numerical treatment, 9A327
- Design model for intermediate web stiffeners, 9A600
- Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part 2: Literature review on near-field and far-field fluid formulations, 9A328
DOWLING, TE: Dynamics of Jovian atmospheres, 2A1262
DOWN, D: Generalized minimum variance adaptive control and parameter convergence for stochastic systems, 8T274
DOWNEY, SW: Single particle characterization of time-of-flight mass spectrometry, 2A1210
DOWNING, DR: Evaluation of several agility metrics for fighter aircraft using optimal trajectory analysis, 1A1116
DOWNING, JM: Comparison of measured and predicted lateral distribution of sonic boom overpressures from the US Air Force sonic boom database, 7A366
- Boom event analyzer recorder: Unmanned sonic boom monitor, 7A278
DOWNING, S: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5, 3N36
DOWSON, AL: Development of a FE based strain accumulation model for the prediction of fatigue lives in highly stressed Ti components, 1A750
DOWSON, D: Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994, 7N24
- International journal on the science and technology of friction, lubrication and wear, 2A597
- Cushion form bearings for total knee joint replacement - Part 1: Design, friction, and lubrication, 2A1311
- Cushion form bearings for total knee joint replacement - Part 2: Wear and durability, 2A1312
- Lubricated wear of ceramics - Part I: The wear and friction of silicon nitride, alumina, and steel in the presence of a mineral oil based lubricant, 5T785
- Elastohydrodynamic and micro-elastohydrodynamic lubrication, 5A1098
- Comparative study of the performance of metallic and ceramic femoral head components in total replacement hip joints, 5A784
- 4th international conference on contact mechanics and wear of rail-wheel systems, 8A790
DOYLE, JF: Determining the size and location of transverse cracks in beams, 2A679
- Impact force location in frame structures, 5A195
- Impact force identification from wave propagation responses, 5A194
DOYLE, JL: Laser-optical triangulation systems provide new capabilities for remote inspection of interior surfaces, 4T771
DOZAKI, K: Simulative analyses of dynamic buckling of bellows, 10A637
DRAAD, AA: Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, 3A943
- Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, 7A1130
DRACH, V: Transient heat transfer from surfaces of defined roughness into liquid nitrogen, 8A1124
DRACOPOULOS, MC: Coarse-fine mesh preconditioners for the iterative solution of FE problems, 2A20
- Partially sequential preconditioner for a parallel and efficent FE solution, 5A29
DRAGAN, A: Comparative analysis of the different methods for speed control of separately excited DC motor, 1A389
DRAGANOIU, G: Computer model of glaze accretion on wires, 11A1436
DRAGANOV, A: Diffraction and pulse delay in a structured ocean, 1A303
DRAGON, A: Finite strain elastic-plastic model for the quasi-static behavior of particulate composites, 11A470
DRAGONI, E: Fatigue testing of metric bolts fitted with lip-type nuts, 5A606
- Structural evaluation of ceramic femoral heads: Effect of taper friction, support conditions and trunnion compliance, 5A1396
- Radial compaction of a hyperelastic tube as a benchmark in compressible finite elasticity, 12A484
DRAGOS, L: Direct boundary integral method for the 2D lifting flow, 3A908
- Direct boundary integral method for the 3D lifting flow, 4A1111
DRAGUNOV, YG: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417
DRAKE, MD: Dual twin image effect from a waveguide hologram, 1A847
DRAKE, R: Method of dynamic mesh adaptation, 9A97
DRANOVSKY, VI: Way to creating a system of distant power supply for space vehicles, 8A1393
DRAPEAU, V: Closed loop shaped-input strategies for flexible robots, 2A308
DRAPER, ERC: Design and performance of an experimental external fixation device with load transducers, 4A1369
DRAR, H: Fractographic aspects of blunting at high loading rate, 5A661
DRASKOVIC, ZV: Stipulation of the relationships between the covariant derivatives of space and surface tensors in shell theory, 12A589
DRAUGHN, RA: Effects of sterilization treatments on adhesion of bone cells to titanium, 8A1408
DRAVINSKI, M: Analysis of spectral ratios for estimating ground motion in deep basins, 12A1374
DRAZETIC, P: Considerations on modal reanalysis of nonconservative dynamics systems by the generalized receptance method, 2A776
- Implementation of a modal reanalysis method in a FE analysis context, 4A33
- Direct inversion of the impedance matrix in response reanalysis, 9A243
- Impact on planar kinematic chain of rigid bodies: Application to movements of anthroponomorphic dummy in a crash, 10A82
DRAZIC, G: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748
DREGALIN, AF: Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, 8A1204
DREGER, DS: Source parameters of the 23 April 1992 M 6.1 Joshua Tree, California, earthquake and its aftershocks: Empirical Green's function analysis of GEOS and TERRAscope data, 6A1236
DREITSER, GA: Dispersed film boiling heat transfer, 1A1240
DREIZIN, EL: Experimental study of stages in aluminum particle combustion in air, 11A1298
DRELA, M: Aerodynamics of heat exchangers for high-altitude aircraft, 7A1164
DRESDEN, M: Quantuum model for the onset of turbulence, 12A1146
DRESSLER, JL: Characteristics of a velocity-modulated pressure-swirl atomizing spray, 2A933
DREW, JE: Measurement of positive displacement pump flow ripple and impedance, 9A345
DREW, RC: FE stress and strain analysis in composites with embedded optical fiber sensors, 1A14
DREW, SJ: Onset of convection in a rapidly rotating compressible fluid spherical shell, 7A1120
DREWNIAK, J: Probabilistic B-models of cumulative fatigue damage, 10A758
DREXLER, M: Accuracy of a video strain measurement system, 10A1482
DREYER , AA: Modeling of cooling tower splash pack, 3A1162
DRIANKOV, D: Introduction to Fuzzy Control, Second Edition, 6N13
DRIELS, M: Linear Control Systems Engineering, 11R21
DRIJKONINGEN, GG: Elastodynamic inverse scattering method for removing scattered surface waves from field data, 3A1288
DRIKAKIS, D: Parallel multiblock characteristic-based method for 3D incompressible flows, 12A1063
DRING, RP: Radial mixing in an axial turbine, 11A1043
DRISCOLL, MJ: Buoyancy and property variation effects in turbulent mixed convection of water in vertical tubes, 11A1130
DRISCOLL, TA: Pseudospectra for the wave equation with an absorbing boundary, 12A308
DROBNIAK, S: Generation of flow periodicity in a wind-tunnel experiment, 10A1210
DROBYSHEVSKII, NI: Dynamic behavior of an initially stressed pipeline, 5A225
- Application of the BEM to the problem of body penetration into fluid, 10A53

DROST, MK: Measurement and use of bi-directional reflectance, 7A1261
- Parametric study of radiative heat transfer in arrays of fixed discrete surfaces, 8T1175
- Monte Carlo simulation of radiative heat transfer in arrays of fixed discrete surfaces using cell-to-cell photon transport, 11A1214
- Comparison of experiment with Monte Carlo simulations on a reflective gap using a detailed surface properties model, 11A1207
DROST, MR: Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
DROUIN, G: Design methodology for a multifunctional hand prosthesis, 6A1372
DROZD, MD: Identation of elastoplastic half-space by elastic ball, 6A388
DROZDJV, A: Lyapunov stability of a class of operator integrodifferential equations with applications to viscoelasticity, 8A522
DROZDOV, AD: New model for an aging thermoviscoelastic material, 2T6
- Constitutive model in finite viscoelasticity, 5A864
DROZDOWICZ, R: Aerodynamic testing of cylindrical shell in model wind tunnel (Polish), 10A241
DROZDOWSKI, H: Structure and molecular correlation of liquid alkanes, 6A872
- Molecular correlations in liquid mono-and Dichloroalkanes, 10A1054
DROZDZIEL, J: Methods of solving steady-state and transient vibrations of discretely supported track, 3A144
- Experimental approach to wheelset-track interaction in frequency domain, 3A159
- Effect of harmonic track alignment and rail wear ratio on the railway vehicle dynamics, 3A158
DRUEZ, J: Ice shedding from cables, 3A1394
DRUGAN, WJ: Asymptotic analysis of growing crack stress-deformation fields in porous ductile metals and implications for stable crack growth, 3A686
- Micromechanics-based nonlocal constitutive equation and estimates of representative volume element size for elastic composites, 8A6
DRUMMOND, JP: Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, 8A1047
DRUYANOV, B: Shakedown theorems extended to elastic *non* perfectly plastic bodies, 4T787
DRUZHININ, OA: Two-way interaction in 2D particle-laden flows: The accumulation of particles and flow modification, 2A925
DRYER, FL: Effect of liquid mass transport on the combustion and extinction of bicomponent droplets of methanol and water, 9A1326
- Numerical simulation of laser ignition of an isolated carbon particle in quiescent environment, 11A1272
DRYSDALE, RG: In-plane behavior of grouted concrete masonry under biaxial tension-compression, 5A708
DRZAZGA, Z: Anomalous reversible torque in layered superconducting $Bi_2Sr_2CaCu_2O_x$, 9A654
DRZIK, M: Elastoplastic crack analysis by boundary integral method and surface spectrum measurement, 1A795
- Nonlinear effects around the fast running crack tip, 9A809
DU , GUOJUN: Super FEM for analyzing plate type truss structure (Chinese), 9A72
DU , SHANYI: Effective elastic moduli of an inhomogeneous medium with cracks, 3A435
DU , ZHIXIAO: Kinetic equation for damage during superplastic deformation, 3A464
- Cavity during superplastic deformation and its influence on mechanical properties of superplastically deformed materials at RT, 7T529
DU MONG, W: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
DU PLESSIS, JP: Tortuosity and aerosity tensors for porous media, 4A1300
DU PLESSIS, JP: Electrical conduction and formation factor in isotropic porous media, 12T1356
DU PREEZ, AF: Effect of the shape of the tower supports and walls on the performance of a dry-cooling tower subjected to cross winds, 2A1147
DU, BP: Fatigue of cast aluminum alloys under constant and variable-amplitude loading, 9A758
DU, CY: Deconposing solid models into depression and protrusion features, 4A858
DU, DAICHUN: Boiling point and molar enthalpy of vaporization of fluorint FC-70 $N(C_4F_{11})_3$: Determined by static-sample and DSC methods, 1A1156
DU, DESHENG: Generalized ray approximate method to inverse medium parameters, 9A274
- Transition matrix inversion method in a stratified medium (Chinese), 10A254
DU, H: Generalized differential quadrature method for buckling analysis, 7A681
- Differential quadrature method for Mindlin plates on Winkler foundations, 7A639
DU, QIANG: Analysis and FE approximation of optimal control problems for a Ladyzhenskaya model for stationary, incompressible, viscous flows, 4A971
- Model for variable thickness superconducting thin films, 12A641
DU, R: Fuzzy expert system for the design of machining operations, 2A327
- Fault features of large rotating machinery and diagnosis using sensor fusion, 6A705
- Feature extraction and assessment using wavelet packets for monitoring of machining processes, 6A572
DU, SENTIAN: Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, 4A786
DU, SHANYI: Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, 1A682
- Elastic field caused by a circular cylindrical inclusion - Part I: Inside the region $x_1^2 + x_2^2 < a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, 5A409
- Elastic field caused by a circular cylindrical inclusion - Part II: Inside the region $x_1^2 + x_2^2 > a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, 5A410
DU, SHUXIN: New method of discrete trajectory planning for robot manipulators, 4A411
DU, SY: Active vibration control of smart composites featuring electro-rheological fluids, 2A118
- Effective elastic properties of 3D carbon-carbon composites at high temperature, 12A563
DU, WEI: Cyclic strain causes heterogeneous induction of transcription factors, AP-1, CRE binding protein and NF-kB in endothelial cells: Species and vascular bed diversity, 5A1382
DU, XIAN-ZHI: Possible route to chaos for the Korteweg-deVries equation, 1T100
DU, XINGWEN: Three-dimensional FE nonlinear analysis of membranes, 9A583
DU, Z -Z: High temperature deformation and fracture of a fiber reinforced titanium matrix composite, 6A668
DU, Z-Z: Transverse yielding and matrix flow past the fibers in metal matrix composites, 1A549
DU, ZHIXIAO: Forming limit during superplastic deformation of sheet metals, 9A702
- Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, 12A672
DUAI , ZHUPING: Laser-induced reverse plugging effect, 3A648
DUAN, MEI: Error estimate of h-convergence in quadrilateral elements, 8A41
- Comparative study on the h-convergence of 4-node and 8-node quadrilateral elements, 9A50
DUAN, MENG-LAN: Experimental investigation on low-temperature fatigue crack propagation in offshore structural steel A131 under random sea ice loading, 6A596
DUAN, SJ: Introduction of stress functions around a circular interface crack between dissimilar materials, 8A667
- Study on optimization of power transmission pylons by minimization of the square sum of the natural periods, 9A894
DUAN, WEN-SHAN: Decay of soliton in small blood artery, 10A1479
DUAN, XIAONIAN: Multiple excitation effects on response of symmetric buildings, 12A1383
DUAN, XN: Seismic response of asymmetric structures to multiple ground motions, 3A1327
DUAN, ZHENGCHENG: Flat-end cutter path generation for a sculptured surface for 3-axes NC machining, 10A712
DUAN, ZHI-WEN: Existence and stability of boundary layer's solutions to a system of reaction-diffusion equations, 5T1200
DUAN, ZHUPING: Analytical study on the laser induced reverse-plugging effect by using the classical elastic plate theory - I: Temperature fields, 6A1175
DUAN, ZIHUA: Finite element method for nonlinear viscoelastic analysis of laminated composite plates (Chinese), 11A443
DUAN, ZP: Circular brass foil failed by plugging opposite to direction of incident laser beam, 7A797
DUARTE, LGC: Mass transfer from impinging swirling jets (Spanish), 7A1295
DUBACH, E: Artificial boundary conditions for diffusion equations: Numerical study, 12A1248
DUBEY, MR: Buoyancy induced flow and heat transfer through a vertical annulus, 10A1255
DUBEY, RN: Stress intensity factors and weight functions for a corner crack in a finite thickness plate, 10A775
- Coordinate-independent representation of spins in continuum mechanics, 11A1
- Elastic-plastic stress-strain calculation in notched bodies subjected to non-proportional loading, 12A743
DUBICHEV, AA: Stability of axisymmetrical equilibrium states of orthotropic spherical shells under large deflections written (Russian), 7A629
DUBINA, D: Considerations concerning the influence of cross-section type on critical-load erosion in compression members, 11T542
DUBINI, G: Fluid-structure interaction problems in bio-fluid mechanics: A numerical study of the motion of an isolated particle freely suspended in channel flow, 4A288
- Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, 6A1349
DUBOIS, F: Modeling drawbeads in sheet metal forming, 4A629
DUBTSOV, SN: Design and testing of a photochemical aerosol generator for calibrating aerosol measuring instruments in the submicrometer region, 12A1339
DUC, G: H_∞ control of an earth observation satellite, 11T328
DUCK, PW: Generation of Tollmien-Schlichting waves by free-stream turbulence, 10A1135
- Hydrodynamic damping force on a cylinder in oscillatory, very-high-Reynolds-number flows, 11A214
DUCKETT, RA: Anisotropic elasticity of oriented polyethylene materials, 5A417
DUCLOS, J: Scholte wave diffraction by a dihedral: Study at oblique incidence, 5A274
DUCOTEY, KS: Importance of traction in web handling, 5A772
DUCROS, F: Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, 5A927
DUDA, FP: Compatibility conditions for the Cauchy-Green strain fields: Solutions for the plane case, 2A354
DUDA, J: Application of multiple sorption model to prediction of sorptive and dilatometric properties of coal related to water and methane under different pressure conditions, 9A1366
DUDA, TF: Simulated tomographic reconstruction of ocean features using drifting acoustic receivers and a navigated source, 3A259
DUDA, Ü: Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, 2A931
DUDAR, NE: Comparative analysis of reusable space transportation systems, 7T989
DUDECK, M: Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, 1A1128
DUDEK, HJ: Hiping conditions for processing of metal matrix composites using the continuum theory for sintering - I: Theoretical analysis, 6A582
- Hiping conditions for processing of metal matrix composites using continuum theory for sintering - II: Application to fiber reinforced titanium alloys, 6A583
DUDEK, SJM: Constitutive convolution and graph theoretical representations of thermodynamic processes: Thermal conduction, 3A1098
DUDLEY, J: Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, 11A797
DUDUCH, JG: Model of brittle materials single point machining with high removal rates, 10A713
DUDZIAK, M: Modeling dynamic phenomena occurring in hydraulic servomotors with hydrostatic bearings, 9A218
DUDZINSKI, D: Forming limit predictions with the perturbation method using stress potential functions of polycrystal viscoplasticity, 12A670
DUER, R: Comments on mixed-mode fracture in adhesive joints, 10A807
DUFF, SF: Parameter study of an internal timber tension connection, 10A929
DUFFEY, TA: Simplified method for evaluating the seismic buckling capacity of unstiffened steel containment structures, 2A502
DUFFIE, NA: Heterarchical control of highly distributed manufacturing systems, 12A467
DUFFY, B: Numerical technique for solving unsteady non-Newtonian free surface flows, 8A902
DUFFY, DG: Generation of internal waves beneath sea ice by a moving load, 8A1401
DUFFY, J: Statics and Kinematics with Applications to Robotics, 10R14
- Application of screw algebra to the acceleration analysis of serial chains, 9A135
DUFLO, H: Scholte wave diffraction by a dihedral: Study at oblique incidence, 5A274
DUFOUR, I: Active shielding of eddy current sensors: A method to focus the magnetic field in order to improve lateral resolution and coupling coefficient, 2A700
- Optimization of the geometry of electrostatic micromotors using only analytical equations, 10T469
DUFOUR-GERGAM, E: Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, 10T459
DUFRENE, L: Modeling of thermal stresses during an electron-beam welding process, 10A1329
DUFRENOY, P: Prediction of railway disc brake temperatures taking the bearing surface variations into account, 6A1115
DUFRESNE, J-L: Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, 11A1213
DUFUMIER, H: Limits of linear moment tensor inversion of surface wave spectra, 4A1321
DUGAN, JP: Ocean waves and sea ice, 2A177
DUGAN, RE: Engineering Thermodynamics, 2R51
DUGAT, J: Mechanical properties of reactive powder concrete, 11A759
DUGGAL, AS: Estimation of flexible cylinder displacement in wave-basin experiments, 2A202
DUGGAN, TV: Computational Methods and Testing for Engineering Integrity - 1st Int Conf, March 1996, Kuala Lumpur, Malaysia, 9N33
DUH, JC: Marangoni instability in a liquid layer with two free surfaces, 4A1067
DUH, JIN-YUAN: Analysis of nonlinear system using Narms models, 11A161
DUINO, JD: Experimental investigation of tangential slot blowing on a generic chined forebody, 1A1113
DUJARI, P: Study of print release process in solder paste printing, 3A867
DUKE, SR: Slopes of small-scale wind waves and their relation to mass transfer rates, 2A178
DUKHAN, A: Fragmentation of highly porous char particles burning in regime I, 12T1315
DUKKIPATI, RV: Analysis of modified railway passenger truck designs to improve lateral stability-curving behavior compatibility, 2A70
DUKLE, NM: Liquid crystal images of the transition from jet impingement convection to nucleate boiling - Part I: Monotonic distribution of the convection coefficient, 8T1153
DULAJ, M: Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface properties via electrical discharge, 6T789
- Methods for improving the adhesive properties of isotactic polypropylene - II: Modification of the surface properties of isotactic polypropylene using chemical oxidizing methods, 6T790
DULAR, P: Boundary Element Technology X - Proc of 10th Int Conf on Boundary Technology (BETECH 95), Liege, Belgium, Sept 13-15, 1995, 1N2
DULIEU-SMITH, JM: Devices for the experimental determination of individual stresses from thermoelastic data, 6A1159
- Determination of crack-tip parameters from thermoelastic data, 9T854
DULIKRAVICH, GS: Developments in electrorheological flows, FED-Vol 235/MD-Vol 71 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N22
- Acceleration of iterative algorithms on highly-clustered grids, 9A86
DULING, BR: Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, 11A1315
DULL, RO: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
DULLENKOPF, K: Account of free-stream-turbulence length scale on laminar heat transfer, 5A966
DULLER, WG: Robustness of learning in the multilayer perceptron, 9A406
DULUC, MC: Liquid nitrogen boiling around a temperature controlled heated wire, 8T1126
DUMANOGLU, AA: Asynchronous dynamic analysis of dam-reservoir-foundation systems by the Lagrangian approach, 5A1312
- Earthquake analysis of gravity dam-reservoir systems using the Eulerian and Lagrangian approaches, 9A1396
DUMBAI, DI: Sufficient conditions of existence of some classes of asymptotic precession motions of a gyrostat about a fixed point (Russian), 3A92
DUMITRACHE, AL: Inverse integral method for nonequilibrium turbulent boundary layers, 11A993
DUMITRESCU, H: Prediction of the aerodynamic loads on helicopter blades by lifting line method, 11A1035
- Inverse integral method for nonequilibrium turbulent boundary layers, 11A993
- Eddy viscosity and entrainment in turbulent boundary layers, 11A944
DUMONT, E: Conditions for initiating the translation of a rigid cylinder in a tube, 12A878
DUMONT, S: Representation of plane elastostatics operators in Daubechies wavelets, 12A503
DUNAEV, YA: Experimental data on hydraulic drag on boiling water in heated tubes, 1A1231
DUNAGAN, SE: Long-range Schmidt-Cassegrain laser velocimeter for large wind-tunnel applications, 8A1051
DUNAI, L: Behavior of steel-to-concrete connections under combined axial force and cyclic bending, 7A963
DUNCAN, EJS: Conversion of oscillatory shear data from highly-filled polymers by direct numerical integration, 9A1044
DUNCAN, JA: Abduction-adduction moments at the knee during stair ascent and descent, 6A1322
DUNCAN, JC: Dynamic optical birefringence: New possibilities in polymer characterization, 4A894
DUNCAN, JL: Effects of geometric variables in roll forming a channel section, 10A704
DUNCAN, ME: Predictions of the acoustic scattering response of free-methane bubbles in muddy sediments, 6A245
DUNDURS, J: Lamellar inhomogeneities in a uniform stress field, 6A384
DUNHAM, J: New endwall model for axial compressor throughflow calculations, 5A1051
DUNKER, R: Advances in Engine Technology - EC Aeronautics Research Series, 4R21
DUNKIN, JE: Measurement of static friction coefficient between flat surfaces, 12A893

DUNLAP, WA: Improvement of soft clays by high-voltage electrokinetics, 9A664
DUNN, JH: Comparison of techniques used by elite gymnasts in performing the basket-to-handstand mount, 12A1492
DUNN, ML: Viscoelastic damping of particle and fiber reinforced composite materials, 5A431
- Estimation of the orientation distribution of short-fiber composites using ultrasonic velocities, 6A452
- Poisson's ratio of porous and microcracked solids: Theory and application to oxide superconductors, 8A398
DUNN, PF: Droplet motion in an electrohydrodynamic fine spray, 7A1139
DUNN-RANKIN, D: Flow behavior near an infinite droplet stream, 12A1094
DUNNE, FPE: Modeling the role of microstructure on the superplastic behavior of a titanium alloy, 1A511
- Effect of volume fraction of reinforcement on the elastic-viscoplastic response of metal-matrix composites, 4A479
- Modeling the influence of filler particles on surface geometry in drawn PET film, 6A418
- Mechanisms-based constitutive equations for the superplastic behavior of a titanium alloy, 11A450
DUNNE, JF: Spectral method for estimation of nonlinear system parameters from measured response, 6A117
- Optimal control approach to extreme local maxima for stochastic Duffing-type oscillators, 12A136
DUNSDON, JM: Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, 9A199
- Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, 9A18
- Free in-plane vibration of isotropic rectangular plates, 10T173
DUONG, CONG: Nonlinear thermoviscoelastic stress and fracture analysis of an adhesive bond, 2A623
DUPONT, O: Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, 11A523
DUPONT, TF: A priori estimates for mixed FE approximations of second-order hyperbolic equations with absorbing boundary conditions, 10A22
DUPRAT, F: Influence of geometrical tolerances on reliability of columns (French), 7A654
DUQUE, EPN: Helicopter rotor blade computation in unsteady flows using moving overset grids, 7A1183
DUQUESNE, F: Dynamic characteristics of on road and off road 4WD vehicles, 6A776
DURAISWAMI, R: Linear pressure waves in fogs, 2A928
- Bubble dynamics fluid-structure interaction simulation by coupling fluid BEM and structural FEM codes, 5T921
DURAND, V: Experimental study and modeling of oscillating flow of high density polyethylenes, 11A851
DURANY, J: Numerical computation of free boundary problems in elastohydrodynamic lubrication, 7A1187
DURAZO, J: Mexico City superficial aquitard and aquifer pollution (Spanish), 12T1440
DURBAN, D: Plane-stain incremental response and sensitivity of stretched plates, 1A610
- Crack tip field in a rubber sheet, 3A515
- Diffusion rate for stress in orthotropic materials, 5A397
- Squeeze flow of a power-law viscoplastic solid, 8A424
DURBHA, VSB: Comparative study of the influence of curvature on the boundary layers and on the inner region of wall jets, 11A942
DURBIN, MD: Study of flame stability in a step swirl combustor, 10A1365
DURBIN, PA: K-3 stagnation point anomaly, 8T987
DURCOVA, O: Fibers from polypropylene-polyamide 6 blend, 6A459
DUREK, JJ: Radial model of anelasticity consistent with long-period surface-wave attenuation, 11A1348
DURGUT, I: Optimal control of gas pipelines via infinite-dimensional analysis, 10A413
DURHAM, SD: Weibull analysis of the strength of carbon fibers using linear and power law models for the length effect, 2A605
DURHAM, WC: Control stick logic in high-angle-of-attack maneuvering, 3T1417
- Closed-form solutions to constrained control allocation problem, 3T333
- Multiple control effector rate limiting, 6T301
DURMUS, A: Earthquake analysis of simply supported reinforced concrete slabs, 4T1331
- Static and dynamic analysis of rectangular tanks by using the Lagrangian fluid FE, 8A785
DUROX, D: Premixed and diffusion flames in a centrifuge, 1A1319
DURRANI, A: Seismic reliability assessment of existing R-C flat-slab buildings, 2A1247
DURST, F: LDA measurements in the near-wall region of a turbulent pipe flow, 1A246
- Natural convection in partitioned 2D enclosures at higher Rayleigh numbers, 7A1214
- Numerical investigation of melting processes affected by natural convection, 7A1226
- Measurement of instantaneous flow rates in periodically operating injection systems, 7A1191
- Parallel block-structured multigrid method for the prediction of incompressible flows, 9A1090
- Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, 10A1146
- Penetration length and diameter development of vortex rings generated by impacting water drops, 12A1093
DUS-SITEK, M: Kinetics of strain relaxation in crystalline and amorphous solid states, 9A1294
DUSING, DW: Numerical issues affecting vortex asymmetries computed with the conical Navier-Stokes equations, 9A1062
DUTHOIT, B: Superficial heat flux and temperature measurement on a wall (French), 11A1189
DUTKIEWICZ, P: Optimal trajectory design for the identification of robot and load dynamics, 9A454
DUTRE, S: Kinematic models for model-based compliant motion in the presence of uncertainty, 2A303
DUTT, JK: Dynamics of rotor shaft system on flexible supports with gyroscopic effects, 4T185
- Stability characteristics of rotating systems with journal bearings on viscoelastic support, 12A103
DUTTA, A: Influence of non-Newtonian behavior of blood on flow in an elastic artery model, 9A1450
DUTTA, D: Fractal characterization of ultrasonic backscattered signals from single crystal and polycrystalline materials, 1A323
- Cyclides in geometric modeling: Computational tools for an algorithmic infrastructure, 5A845
- Tools for asymmetry rectification in shape design, 10A881
DUTTA, S: Local heat transfer in a rotating two-pass ribbed triangular duct with two model orientations, 5A1143
- Prediction of turbulent heat transfer in rotating smooth square ducts, 11A1143
DUTTA, SC: Hysteresis models for nonlinear behavior of R-C members, 2A754
DUTTON, JC: Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf, 2N46
- Base-bleed experiments with a cylindrical afterbody in supersonic flow, 7A1078
- Free shear-layer interaction with an expansion-compression wave pair, 8A966
- Velocity and turbulence measurements in a supersonic base flow with mass bleed, 11A917
- Investigation of large-scale structures in supersonic planar base flows, 11A913
DUTTON, RE: Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, 12A795
DUVAL , AL: Microprojectile velocities in a gas driven launcher, 3A1404
DUVENHAGE, G: Remaining life analysis for a pressure vessel subjected to cyclic loads based on fracture mechanics, 4A703
DUVENHAGE, K: Plume recirculation in mechanical-draft air-cooled heat exchangers, 7A1264
- Flow distortions at the fan inlet of forced-draught air-cooled heat exchangers, 12A1257
DUVVUR, A: Oscillatory fuel droplet vaporization: Driving mechanism for combustion instability, 8A1267
DUYAR, A: Simplified dynamic model of the T700 turboshaft engine, 6A1207
DVOINISHNIKOV, AE: Deflagration to detonation transition in large confined volume of lean hydrogen-air mixtures, 7A309
DVORKIN, EN: Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, 1A518
- Performance of the QMITC element in 2D elasto-plastic analyses, 5A461
- Three field element via augmented Lagrangian for modeling bulk metal forming processes, 6A33
DVORKIN, J: Elasticity of partially saturated frozen sand, 6A536
- Combined experimental and numerical scheme for the determination of contact loads between cemented particles, 7A543
- Stress sensitivity of sandstones, 8A543
DVOROVENKO, IV: Film boiling heat transfer of the refrigerant R-12 in a granular medium bed, 2T1110
DVORSKY, GR: Mechanical validation of smart structures, 11T737
DWIVEDI, JP: Nonaxisymmetric dynamic response of imperfectly bonded buried fluid-filled orthotropic cylindrical shells, 7A174
DWYER, HA: Primitive variable implicit approach for compressible chemical vapor deposition, 11T965
DWYER, JF: Edge function analysis of stress intensity factors in cracked anisotropic plates, 6A672
DYATLOVITSKY, LI: Refined version of the finite differences method in the theory of elasticity, 2A406
DYBAN, YP: Jet cooling of ribbed walls of molds for producing corrugated pipes and hoses, 1A1167
DYER, I: Energy partitioning in a truss structure, 7A180
DYJA, H: Joints of steel-brass one-side welded by explosive method, 9A718
DYK, J: Dynamical loads in a geared system with regard to shaft and bearing flexibility, 9A223
DYKA, CT: Approach for tension instability in smoothed particle hydrodynamics, 1A1031
DYKHNO, L: Turbulence production in flow over a wavy wall, 8A980
DYM, CL: Energy and Finite Element Methods in Structural Mechanics, SI Units Edition, 12N2
DYMENT, A: Asymptotic expression of the forces induced by a strong jet in a crossflow, 2T965
- Liquid sheet and film atomization: A comparative experimental study, 4A1015
DYNE, BR: Mesh generation and numerical simulation of fluid entering a large tube bundle, 6A912
- Finite element analysis of the scramaccelerator with hydrogen-oxygen combustion, 8A239
DYNOWSKA, E: Interfacial reactions between thin films of zinc and (100) InP, 6A821
DYRBYE, K: Packaging of physical sensors for aggressive media applications, 10T445
- Protective coatings in harsh environments, 10T470
DYRDA, VI: Applied model of deformation of nonlinear viscoelastic vibroinsulators under cyclic deformation (Russian), 3A448
DYSON, E: High-power electronics heat rejection from aircraft skin, 11A1242
DYSZLEWICZ, J: Selected problems of linear asymmetrical thermoelasticity, 8A1238
DZENIS, YA: Stochastic damage evolution modeling in laminates, 8A659
DZENZERSKY, VA: Stability of vertical oscillations in the system of electrodynamic-inspension with discrete wheelpan, 9A145
DZIUBA JR, JC: Vehicle handling design process using DOE, 8A335
DZIUBAN , J: Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, 10T453
DZIUK, G: Convergence of a FEM for non-parametric mean curvature flow, 5A4
DZODZO, M: Pressure and flow characteristics in a shallow hydrostatic pocket with rounded pocket-land joints, 8T818
- Steady-state and transient dynamic simulation of a continuous foil bearing, 8T819

E

E , WEINAN: Vorticity boundary condition and related issues for finite difference schemes, 9T91
E, WEINAN: Essentially compact schemes for unsteady viscous incompressible flows, 11A890
EAMES, IW: Jet-pump cycle: A low cost refrigerator option powered by waste heat, 2A1143
EAMES, PC: Thermal and optical consequences of the introduction of baffles into compound parabolic concentrating solar energy collector cavities, 1A1420
- Effect of variation of angle of inclination on the performance of low-concentration-ratio compound parabolic concentrating solar collectors, 3A1368
EARMME, YY: Effective elastic moduli in fiber reinforced composite with circular-arc shaped interfacial cracks, 1A813
EASLEY, ML: Ceramic gas turbine technology development, 5A1269
EASON, TG: Modeling progressive damage in composites: A shear deformable element for ABAQUS, 9A77
EASSON, W: Simulation of wave motion using a lattice gas model, 7A276
EASTEP, FE: Aeroelastic model design using parameter identification, 7A296
EASWARAN, V: Further validation and use of the FEM to room acoustics, 4A328
- Transient response of lightly damped rooms: A FE approach, 6A256
- Application of acoustic FE models to finding the reverberation times of irregular rooms, 9A380
EATON, DCG: Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, 11A523
- Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, 11A522
EATON, JA: Application of the FEM to acoustic scattering problems, 6A19
EATON, JK: Effects of mean flow 3D on turbulent boundary-layer structure, 4A1020
- Experimental study of the effects of three-dimensionality on the near-wall turbulence structures using flow visualization, 8A986
EATON, NC: FE stress and strain analysis in composites with embedded optical fiber sensors, 1A14
EATON, RR: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
EBADIAN, MA: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Numerical simulation of double diffusive convection in a V-shaped sump, 1A1305
- Forced convection in ducts with a boundary condition of the third kind, 3T1026
- Heat transfer within a steel-reinforced porous concrete slab subjected to microwave heating, 3A1117
- Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, 5A915
- Turbulent forced convection in a helicoidal pipe with substantial pitch, 10A1252
- Natural convection heat transfer from helicoidal pipes, 10A1254
- Heat transfer of air-water two-phase flow in helicoidal pipes, 11A1169
EBCIOGLU, IK: Dynamic formulation for geometrically exact sandwich beams and 1D plates, 5A145
EBECKEN, NFF: Portable FORTRAN programming tools in the development of a structural analysis program, 2A777
EBEL, H: Surface studies of $Re_3Fe_5O_{12}$ garnets, $ReFeO_3$ orthoferrites and $ReVO_4$ orthovanadates, 9T990
EBELING, RM: Red river U-frame lock No 1 backfill-structure-foundation interaction, 8A538
EBEN-CHAIME, M: Integrative model for automatic warehousing systems, 12A476
EBENEZER, DD: Effect of multilayer baffles and domes on hydrophone response, 9A357
EBENHOCK, G: Simulation of cooling systems in gas turbines, 11A1044
EBERHARD, MO: Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, 11A1409
EBERHARDT, S: Dual-code solution strategy for hypersonic flows, 12T1070
EBERHART, ME: Metallic bond: Elastic properties, 11A408
EBERLE, MA: Out-of-plane tensile behavior of geosynthetic clay liners, 12A663
EBERLEIN, R: Axisymmetrical quasi-Kirchhoff-type shell element for large plastic deformations, 2A29
- Large strain analysis of soft biological membranes: Formulation and FE analysis, 12A1467
EBERT, FJ: Effect of cleanliness on the attainable bearing life in aerospace applications, 2T814
EBERT-UPHOFF, I: Evaluating efficiency of self-reconfiguration in a class of modular robots, 10A491
EBIANA, AB: Design considerations for numerical filters used in vortex-in-cell algorithms, 6A910
EBISU, H: Unsteady fluid forces on a blade in a cross-flow turbine, 1A259
EBNER, R: Laser microstructure modification of metallic materials, 9A730
EBRAHIMI, F: Ductile crack initiation in steels, 6A647
ECHEKKI, T: Unsteady strain rate and curvature effects in turbulent premixed methane: Air flames, 12A1304
ECHIGO, R: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126
ECHTERMEYER, A: Design procedure for reducing the stress concentration around circular holes in laminated composites, 4A506
ECHTERMEYER, AT: Estimation of fatigue curves for design of composite laminates, 11A632
ECHTERNACH, D: Processing monitoring of carbon-phenolic composites using smart sensors, 1A589
ECKBURG, JJ: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
ECKER, H: Modeling, simulation, and optimization of a printer sled driving system, 3A325
ECKERT, ERG: Pressure die casting: A model of vacuum pumping, 11A606
- Film cooling of the gas turbine endwall by discrete-hole injection, 11A1040
ECKERT, S: Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
ECKHAUSE, JE: Modeling heat transfer to impinging fuel sprays in direct-injection engines, 5T1266
ECKSTEIN, EC: Fluid dynamics study of the Trac™ catheter, 7A1411
ECONOMIDES, MJ: Hydraulic Fracture Mechanics, 7R29
ECONOMIKOS, L: Controlling the dimensions of laser-chemical vapor-deposited metallurgy, 8A562
EDA, H: Giant magnetostriction actuator of laminated plate type (Japanese), 1A421
- Study for ultra precision processing of silicon wafer by lapping stone: By new lapping stone instead of free abrasive lapping process (Japanese), 4A661
- Development of multi-purpose ductile-regime machining system for ceramics and glasses (Japanese), 9A738
- Study of the ultra precision grinding process on a magnetic disk substrate: Development of new bonding materials for fixed abrasives of grinding stone, 12A695
EDAMOTO, K: Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), 10A914
EDDY, TL: Thermodynamic charts for nonequilibrium plasma flow in a supersonic nozzle, 6A927

EDELEN, DGB: Correct, globally-defined solution of the screw dislocation problem in the gauge theory of defects, 5A401
EDGAR, NB: Conditioning number and the selection criteria for p-version approximation functions, 12A15
EDGE, KA: Decentralized adaptive control of a directly driven hydraulic manipulator - Part 1: Theory, 2A310
- Decentralized adaptive control of a directly driven hydraulic manipulator - Part 2: Experiment, 2A311
- Impedance characteristics of hydraulic orifices, 6A336
- Predicting the behavior of slipper pads in swash-plate-type axial piston pumps, 9A1237
- Automated fault tree analysis for hydraulic systems, 12A421
EDITOR, D: International journal on the science and technology of friction, lubrication and wear, 2A598
EDLEBI, R: Efficiency analysis of prestressing by forced deformations of the RC floor in continuous bridge (Polish), 10A894
EDLUND, B: Ultimate strength of girders with trapezoidally corrugated webs under patch loading, 5A501
- Shear capacity of plate girders with trapezoidally-corrugated webs, 11A15
EDMONDS, DE: Acoustical principles of a dynamic compressibility apparatus with internal reference, 1A357
EDMONDS, DV: Development of the twin-roll casting process, 7A756
EDMONDS, ME: Time-dependent behavior of a force-sensitive resistor plantar pressure measurement insole, 12A1481
EDULJEE, RF: Elastic response of post- and *in situ* consolidated laminated cylinders, 11A1250
EDWARDS, BJ: Continuum dynamic behavior of homogeneous liquid-crystalline polymers under the imposition of sheared and magnetic fields, 4A893
- Out-of-plane orientational dynamics of polymer liquid crystals under flow, 11A850
EDWARDS, BN: Comparative analysis of bone stresses and strains in the Intoss dental implant with and without a flexible internal post, 3T1399
EDWARDS, C: Sliding mode stabilization of uncertain systems using only output information, 3T331
- Optimization of a miniature laser-EMAT system for pulsed ultrasonics, 10A862
EDWARDS, DA: Constant front speed in weakly diffusive non-Fickian systems, 1A1300
- Instability of non-wetting film with interfacial viscous stress, 2A978
EDWARDS, DK: Moving gas front effects on heat pipe transient behavior, 6A1151
EDWARDS, JR: Implicit multigrid algorithm for computing hypersonic, chemically reacting viscous flows, 6T911
- Upwind relaxation multigrid method for computing 3D, viscous internal flows, 6A916
- Comparison of eddy viscosity-transport turbulence models for 3D, shock-separated flowfields, 9A1191
- Performance of eddy-viscosity-based turbulence models in 3D turbulent interaction, 9T1197
EDWARDS, L: Analysis of short crack growth from microscopic fatigue properties, 2A565
- Theoretical modeling of fatigue threshold for aluminum alloys, 10A734
- Measurements of stress intensity factors of an interface crack under mixed mode loading, 11A698
EDWARDS, MF: Windage heating of air passing through labyrinth seals, 11A1045
EDWARDS, MG: Higher-order Godunov scheme coupled with dynamic local grid refinement for flow in a porous medium, 12A1354
EDWARDS, MP: Closed-form solutions for unsaturated flow under variable flux boundary conditions, 12T1413
EDWARDS, PD: Finite element analysis of a total knee replacement by using Gauss point contact constraints, 9A1463
EDWARDS, SF: Flow behavior of 2D random foams, 4A446
EDWARDS, TA: Computation of hypersonic flows with finite catalytic walls, 1A1016
EDWARDS, WR: Study of the pressure distribution on an aircraft tire-wheel interface, 2A794
EDWARDS, WT: Optimization technique for the calculation of in-vitro 3D vertebral motion, 5A1394
EFFLER, SW: Determination of reaeration coefficients: Whole-lake approach, 9T1428
EFIMENKO, AV: Approximate calculation of the edge and scale effects in composite materials, 7T828
EFIMOV, AB: Friction laws in metal forming, 10T958
EFIMOV, OE: Second-order control optimization method for nonlinear dynamic systems and its application to optimal aircraft trajectory calculation, 10A1204
EFIMTSOV, BM: Latent spatial resonances at thin-walled structure vibrations in convecting field of random pressure fluctuations, 10T300
EFREMOV, GA: Theory and synthesis of advanced thermal-protective composite materials, 12A1288
EFTAXIOPOULOS, DA: Energy considerations in the boundary collocation method applied in fracture, 12A775
EGAMI, N: Evaluation of K_{II} using a copper foil when assessing frictional forces on crack surfaces, 10A836
- Mixed mode fatigue crack thresholds from bending and cyclic torsion of a plate, 11A634
EGASHIRA, K: Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, 8A1035
EGBELU, PJ: Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, 2A286
- Dynamic point specification approach to sequencing robot moves for PCB assembly, 4A420
EGBERS, C: Existence of Taylor vortices and wide-gap instabilities in spherical Couette flow, 2A975
EGBERS, G: Influence of fiber irregularity on the tensile properties of carbon and glass fibers, 1A534
EGELAND, O: Maximum power absorption with active struts, 1T410
- Feedback control of a nonholonomic underwater vehicle with a constant desired configuation, 7A401
EGGELS, JGM: Alignments and small scale structure in turbulent pipe flow, 2A986
- Numerical simulation of transient natural convection from an isothermal cavity open on a side, 5A1131
- Numerical simulation of free convective flow using the lattice-Boltzmann scheme, 5A1130
EGGELS, RLGM: Numerical and experimental study of the no-emission of ceramic foam surface burners, 5A1216
EGGERS, F: Oscillating plate viscometer in the Hz to kHz range, 4A915
EGGERT, GM: Consistent penalty method for contact between a deforming viscoplastic workpiece and a rigid tool, 4A457
EGGLES, RLGM: Modeling of burner-stabilized hydrogen-air flames using mathematically reduced reaction schemes, 5A1256
EGGLESTON, KL: Comparison of daily solar radiation estimates for the NE US using the NE regional climate center and national renewable energy laboratory models, 3A1374
EGHNEIM, GA: Two-region model for gradient modification of salt-gradient solar ponds by radial injection, 7A1399
EGOLFOPOULOS, FN: CO×$_2$ chemiluminescence in premixed flames, 7A1315
EGORKIN, A: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391
EGOROV, SD: Thermal convection in anisotropic porous insulation, 10A1271
EGOZCUE, JJ: Safety control of prestressing in nuclear plants, 3A1244
EGRY, I: Surface oscillations of electromagnetically levitated viscous metal droplets, 2A1003
EGUCHI, M: Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, 6A845
EGUCHI, Y: Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, 8A877
- Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970
EHARA, K: Stochastic modeling of a new spectrometer, 4A1290
EHIRA, A: Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of austenitic heat-resistant steel SUH36 against FE-base sintered alloy using plane specimens, 3A827
- Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, 9A1341
EHLERS, W: Dynamic analysis of a fully-saturated porous medium accounting for geometrical and material nonlinearities, 5A1306
EHMANN, KF: CAD approach to helical groove machining - I: Mathematical model and model solution, 3A617
- Helical micro-drill point design and grinding, 5A577
- Three-dimensional surface characterization by 2D autoregressive models, 5A384
EHMANN, M: Numerical study of the oscillations of axially excited liquid annuli with rotational symmetry enclosed in revolving circular cylindrical containers, 2A881
EHNI, PD: Wear behavior of triode-sputtered MoS_2 coatings in dry sliding contact with steel and ceramics, 12A919
EHRBURGER, P: Influence of cerium oxide on the formation and oxidation of soot, 7A1318
EHRENFEUCHTER, PE: Fiber-embedded mandrel-stiffened planar acoustic sensor, 1A359
EHRENMARK, UT: Numerical inversion of two classes of Kontorovich-Lebedev transform by direct quadrature, 4A76
EHRENSTEIN, U: Spatially localized 2D finite-amplitude states in plane Couette flow, 4A1058
EHRET, P: Boundary element method for transient viscoelastic flow: The MPTT model, 8A413
EHRHARDT, JP: Component and procedural improvements for the T-62T-40-7 gas turbine in the LCAC fleet, 10A1393
EHRLICH, R: Towards realistic flow modeling - Creation and evaluation of 2D simulated porous media: An image analysis approach, 11A1325
EHSANI, MR: Design recommendations for bond of GFRP rebars to concrete, 8A744
EICH, E: Regularization methods for constrained mechanical multibody systems, 4A107
EICHER, L: Simulation investigation on dynamic pressure in glide angle control, 3A358
EICHINGER, W: Multifractal analysis of lidar measured water vapor, 8T88
EICHINGER, WE: Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, 12A1415
EID, HT: HDPE geomembrane-geotextile interface shear strength, 8A533
EIDEL, W: Anchored edge pitching response of a spinning frictionless liquid column due to bottom and/or top excitation, 4A954
- Pitching response of an anchored viscous liquid bridge to bottom and/or top disc excitation, 10A1079
- Vibrations of an infinitely long flowing liquid jet: Influence of spin and axial flow, 12A1131
EIDSMOEN, H: Hydrodynamic parameters for a two-body axisymmetric system, 5A220
- Optimum control of a floating wave-energy converter with restricted amplitude, 11A346
EIFF, OS: Lock-in of vortices in the wake of an elevated round turbulent jet in a crossflow, 1A1067
EIGENBROD, C: Two stage ignition of a n-heptane isolated droplets, 5A1213
EILERS, OP: Testing of in-plane shear properties under fatigue loading, 2A456
EINAV, S: Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, 6A968
EISELE, K: Two-dimensional velocity shift caused by the use of a rotating mirror in PIV flow field measurements, 6A1059
- Effect of astigmatism due to beam refractions on the formation of the measurement volume in LDA measurements, 10A1239
EISENBERGER, M: Dynamic stiffness analysis of laminated beams using a first order shear deformation theory, 1A130
- Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, 10A198
- High-order element for prebuckling and buckling analysis of laminated plane frames, 12A633
EISENGA, AHM: Dynamics of a vortex ring in a rotating fluid, 12A1033
EISINGER, FL: Experience with unusual acoustic vibration in heat exchanger and steam generator tube banks, 8T222
- Prediction of acoustic vibration in steam generation and heat exchanger tube banks, 10A368
EISLER, GR: Dynamic programming approach for burnout-to-apogee guidance of precision munitions, 8T310
EIßLER, W: Spatial numerical simulations of linear and weakly nonlinear wave instabilities in supersonic boundary layers, 11A916
EJIRI, A: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
EKALO, Y: Quality of stabilization of robot interacting with dynamic environment, 3A404
EKAMBAVANAN, K: Finite difference analysis of unsteady natural convection flow along an inclined plate with variable surface temperature and mass diffusion, 6A1076
EKATERINARIS , JA: Evaluation of turbulence models for unsteady flows of an oscillating airfoil, 2A1035
EKATERINARIS, JA: Numerical investigation of dynamic stall of an oscillating wing, 3A990
- Numerical investigation of stall flutter, 11A1034
- Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, 12A1169
EKBERG, A: Fatigue life model for general rolling contact with application to wheel-rail damage, 3A832
EKECHUKWU, OV: Design and measured performance of a solar chimney for natural circulation solar energy dryers, 7A1393
EKELAND, A: Structural capacity of the knee to anterior cruciate ligament failure during quadriceps contraction: An *in vivo* study in the rat, 12A1452
EKIMOV, AE: Experimental study of local mass influence on sound radiation from a thin limited cylindrical shell, 12A285
EKSTROM, G: Instrument responses of digital seismographs at Borovoye, Kazakhstan, by inversion of transient calibration pulses, 11A1388
- Radial model of anelasticity consistent with long-period surface-wave attenuation, 11A1348
- Improving teleseismic event locations using a 3D earth model, 12A1380
EKSTROM, L: In vivo measurement of spinal column viscoelasticity: An animal model, 2T1308
EKVALL, K: Concentration and temperature measurements in a laser-induced high-explosive ignition zone - Part I: LIF spectroscopy measurements, 10A1381
EL ABDI, R: Optimal design for minimum weight in a cracked pressure vessel of a turboshaft, 11A727
EL ALAOUI TALIBI, M: Existence of solutions for elastohydrodynamic piezoviscous lubrication problems with a new model of cavitation, 8A1041
EL AMMOURI, F: Analysis of laser beam deviation fluctuations in a turbulent nonisothermal flow and relevance to c_N, 2A990
EL BARADIE, MA: Plastics and their machining: A review, 6A574
- End-milling machinability of Inconel 718, 7A738
- Computer-aided analysis of a surface-roughness model for end milling, 7A736
- Effect of varying the workpiece diameter on the cutting tool clearance angle in tool-life testing, 12A942
EL BASHIR, TBA: Stokes flow past two circular cylinders using a BEM, 2A50
EL BOUAZZAOUI, R: Experimental investigation of stiffness reduction and cracks geometry in a unidirectional brittle matrix composite, 8A647
EL BOUDOUTI, EH: Elastic vibrations of planar and deterministic rough surfaces, 9A358
EL DEBS, MK: Bending behavior of mortar reinforced with steel meshes and polymeric fibers, 4A802
EL HARROUNI, K: Global interpolation function based DRBEM applied to Darcy's flow in heterogeneous media, 8A1324
EL HAYEK, M: Effects of time scale ratio in turbulent diffusion flames modeling, 10A1377
EL JAI, A: Regional controllability of distributed parameter systems, 5A299
EL KHOURY, A: Effects of rectangular foundation geometry on local pier scour, 6T883
EL MADANY, MM: Active vibration control of a flexible rotor, 4A142
EL MARAGHY, HA: Design, dynamics and identification of a flexible joint robot manipulator, 10A480
EL NAGGAR, MH: Effect of foundation nonlinearity of modal properties of offshore towers, 1A176
- Nonlinear analysis for dynamic lateral pile response, 12A652
EL TANI, M: Tensiometer reaction related to its filter dimensions, 4A1299
EL-BAHLOUL, AMM: Surface capacity of gears of circular-arc tooth-profile, 12A935
EL-BAKRY, AS: Formulation and theory of the Newton interior-point method for nonlinear programming, 12T350
EL-BAKRY, MY: Flow of a fluid of grade two between two eccentric rotating spheres, 10A1080
EL-BARKI, FA: Limiting case for the motion of a rigid body about a fixed point in the Newtonian force field, 5A238
EL-BKAILY, M: Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N14
EL-DEEB, KMM: Further assessment of numerical procedures for the study of fluid-structure interaction, 2A200
- Correlation between experimental and theoretical modal properties of an echinodome, 4A175
EL-DEMERDASH, SM: Effect of nonlinear components on the performance of a hydro-pneumatic slow-active suspension system, 7A197
- Hydro-pneumatic slow-active suspension with preview control, 11A327
EL-DIB, YO: Stability of parametric resonances of nonlinear surface waves propagating between two superposed electrified fluids, 3A203
- Capillary instability of an oscillating liquid column subjected to a periodic rigid-body rotation, 11A987
EL-DIN, S: Consistent treatment of shear design of structural concrete B-regions, 4A803
EL-DOMIATY, AA: Determination of stretch-bendability of sheet-metals, 8A551
EL-GENK, MS: Transient analysis of the start-up of a water heat pipe from a frozen state, 3A1156
- Numerical solution of transient heat conduction in a cylindrical section during quenching, 4A1201
- Film boiling from a downward-facing curved surface in saturated and subcooled water, 4A1182
- Hydrogen corrosion considerations of carbide fuels for nuclear thermal propulsion applications, 4A1275
- Transient heat conduction during quenching of downward facing copper and stainless steel convex surfaces, 11A1193
EL-GINDY, M: Design of an active unilateral brake control system for five-axle tractor-semitrailer based on sensitivity analysis, 4A371
- Neural networks representation of a vehicle model: "Neuro-Vehicle", 8A343
EL-HAMALAWI, A: Cubic strain quadrilateral FE, 10A27
EL-HAWARY, MM: Nonlinear FE analysis of horizontal elastomerics of revolution, 7A23
EL-HORBATY, E-SM: Algorithm for calculating Jones polynomials, 7T73
EL-KAREH, AW: Stokes flow impinging on a spherical cap on a plane wall, 11A889
EL-KETTANI, M E-CH: Experimental study of the conversion of Lamb waves at the end of an immersed plate, 11A257
EL-MAHDY, O: Predicting creep towards high-strength concrete, 9A498

EL-MARHOMY, AA: Dynamic analysis of rotor-bearing systems with an elastic attachment of the rotor to the spinning shaft, 11A820
EL-METWALLY, E: Consistent treatment of shear design of structural concrete B-regions, 4A803
EL-MISIERY, AEM: Algorithm for calculating Jones polynomials, 7T73
EL-NAGGAR, AM: Wave propagation in layered media under initial stresses, 7A238
- Influence of gravity and an initial stress on the propagation of waves in an orthotropic elastic medium, 11A170
EL-RAHEB, M: Frequency response of elastic bodies of revolution by the BEM, 1A168
- Transient elastic waves in finite layered media: 2D axisymmetric analysis, 12A224
EL-RATAL, WH: Elastic response of flexible polyurethane foams in uniaxial tension, 10A584
EL-REFAEE, MM: Steady state solutions of buoyancy-assisted internal flows using a BE-False Implicit Transient Scheme, 3A49
- Vortex lock-on for a rotationally oscillating circular cylinder: A BEM numerical study, 3A903
- Calculation of all drag components for 3D bodies in wind tunnel flows: A BE-wake approach, 8A1055
- Plastic deformation of a rigid floating plate: An analytical study, 10A538
- Calculation of 3D BE drag components using wind tunnel data, 11A51
EL-RIMAWI, JA: Treatment of strain reversal in structural members during the cooling phase of a fire, 10A899
EL-SAYED, M: Structural Optimization - Proc of Computer Aided Optimum Design of Structures IV, 6N28
EL-SAYED, MF: Electrohydrodynamic Kelvin-Helmholtz instability for a velocity stratified fluid, 3A962
EL-SEBAKHY, IS: Experimental studies of heavy radial density currents, 6A904
EL-SEHILY, BM: Significance of crack tip deformation for short and long fatigue cracks, 10A740
EL-SHAFEI, A: Modeling fluid inertia forces of short journal bearings for rotordynamic applications, 5A160
- Modeling and control of HSFDs for active control of rotor-bearing systems, 5A1285
EL-SHEIKH, HA: Environmental hazards due to rupture of a liquefied propane pipeline, 8A1398
EL-SHEIKH, MN: Workability in forging of powder metallurgy compacts, 6A586
EL-SHEKIH, A: Development of a new space truss system, 11A786
EL-SHERBINY, HM: Note on the equivalence of Backlund transformations and the inverse scattering method for a class of nonlinear differential equations, 12A230
EL-TAYEB, NS: Friction and wear properties of E-glass fiber reinforced epoxy composites under different sliding contact conditions., 10A964
EL-TAYEB, NSM: Effect of laminate orientations on friction and wear mechanisms of glass reinforced polyester composite, 12A881
EL-WAHAB, MMA: Nonlinear FE analysis of horizontal elastomerics of revolution, 7A23
EL-WAKIL, SA: Light transfer problem in turbid media with surface reflectivity, 10A295
- Light transfer problem in turbid media with surface reflectivity, 11A177
EL-WARDANY, TI: Cutting temperature of ceramic tools in high speed machining of difficult-to-cut materials, 8T564
- Tool condition monitoring in drilling using vibration signature analysis, 10A1000
EL-ZAFRANY, A: Modified Kirchhoff theory for BE analysis of thin plates resting on two-parameter foundation, 6A487
EL-ZAYYAT, K: Disturbance rejection control of bridge response to earthquake excitation, 8A1338
EL-ZEBIDY, AFM: Comparison of solutions in a frame-work of different plate theories, 1A623
ELARABI, ME: Current Advances in Mechanical Design and Production - VI - Proc of 6th Cairo Univ Int MDP Conf, Cairo, January 1996, 10N44
ELATA, D: Modeling added compressibility of porosity and the thermomechanical response of wet porous rock with application to Mt Helen Tuff, 5A1304
ELAVARASAN, R: Experimental study of a jet with local buoyancy enhancement, 1A1063
ELBEHEIRY, EM: Optimal control of vehicle random vibration with constrained suspension deflection, 7A404
ELBESTAWI, MA: In-process evaluation of workpiece geometrical tolerances in bar turning, 3A621
- Cutting temperature of ceramic tools in high speed machining of difficult-to-cut materials, 8T564
- Tool condition monitoring in drilling using vibration signature analysis, 10A1000
ELDABE, NTM: Pulsatile magnetohydrodynamic viscoelastic flow through a channel bounded by two permeable parallel plates, 4A1095
- Magnetohydrodynamic flow of second order fluid through a porous medium on an inclined porous plane, 4A1093
ELDER, RL: Active control of surge in multi-stage axial-flow compressors, 6A1030
ELDRED, LB: Viscoelastic material response with a fractional-derivative constitutive model, 8A402
- Numerical application of fractional derivative model constitutive relations for viscoelastic materials, 12A510
ELDRED, MS: Mode tracking issues in structural optimization, 3A759
ELENEVSKII, DS: Formation of programs for equivalent laboratory tests of turbine blades, 10A619
ELEZGARAY, J: Local models of spatio-temporally complex fields, 8A988
ELGAALY, M: Shear strength of beams with corrugated webs, 10A599
ELGABRY, AA: Transfer of moments between columns and slabs: Proposed code revisions, 7A959
- Moment transfer by shear in slab-column connections, 9A919
ELGAETER, A: Dynamics of coaxial torsional resonators consisting of segments with different radii, material properties, and surrounding media, 1A960
ELGAMAL, AW: Liquefaction of reclaimed island in Kobe, Japan, 6A530
ELGER, DF: Industrial and Environmental Applications of Fluid Mechanics - 1995 ASME/JSME Fluids Eng Conf, 2N41
ELGERSMA, M: New computational algorithm for 7R spatial mechanisms, 4A868
ELGSAETER, A: Automated high-pressure, high temperature, low-frequency viscometer, 1A970
ELHAY, S: Dualities in vibrating rods and beams: Continuous and discrete models, 1A128
ELHEFNAWY, ARF: Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, 6A1006
ELIASSON, A-C: Dynamic rheological method to study the interaction between starch and lipids, 4A905
ELICES, M: Stress intensity factor evaluation of constructional details for tubular structures, 1A784
ELICES, T: Maximum ΔV in the aerogravity assist maneuver, 5T240
ELIPE, A: Numerical continuation of families of frozen orbits in the zonal problem of artificial satellite theory, 3A239
ELISEEVA, IM: Control of adhesion strength in metal-elastomer joints during elastomer crosslinking, 10A968
ELISHAKOFF, I: Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics, 4R4
- Diagnosis of local uncertain modifications in the boundary conditions of a rectangular plate via convex modeling, 1A628
- Random vibration of structures: A personal perspective, 2A85
- Natural frequencies of structures with uncertain but nonrandom parameters, 2A773
- Conditional simulation of non-Gaussian random fields for earthquake monitoring systems, 3A1335
- Detrimental or serendiptious effect of human error on reliability of structures, 8A733
- Reliability of structures subject to normally distributed initial imperfections, 8A504
- Bounds of eigenvalues for structures with an interval description of uncertain-but-non-random parameters, 9A242
- Non-probablistic eigenvalue problem for structures with uncertain parameters via interval analysis, 9A247
- Vibrational imperfection sensitivity of Augusti's model structure in the vicinity of nonlinear static state, 10A875
ELIZAROV, AM: Estimates for critical Mach number under isoperimetric constraints, 4A986
- Problems of hydrofoil design for a given range of angles of attack, 12A1165
ELIZAROVA, TG: Rarefied gas flow simulation based on quasigasdynamic equations, 4A1001
ELKHOLY, AH: Variable stroke piston mechanism for spark ignition engines, 2A1191
- Testing evaluation of journal bearings, 5T836
- Experimental analysis of journal bearings, 5A827
- Fretting fatigue in elastic contacts due to tangential micro-motion, 10A749
ELLACOTT, SW: Sound-pressure response measurement in small rooms over a finite region, 5A295
ELLE, OJ: Mechanical analysis of high precision manipulator, 4A400
ELLINGWOOD, B: Direct integration method for stochastic FE analysis of nonlinear dynamic response, 8A13
ELLIOTT, C: Design and performance of a visble valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
ELLIOTT, CM: Numerical analysis of a model for phase separation of a multi-component alloy, 6A22
ELLIOTT, D: Algorithm for the approximate solution of integral equations of Mellin type, 1A67
ELLIOTT, DW: Matching engine and aircraft lapse rates for high speed civil aircraft, 7A1177
ELLIOTT, JW: Wake of a small-scale rotor in forward flight using flow visualization, 1A1140
ELLIOTT, KB: Integrated controls-structures design methodology: Redesign of an evolutionary test structure, 8A272
- Experimental validation of an integrated controls-structures design methodology, 8A350
ELLIOTT, KS: Elastic-plastic strain distributions at fillet welds, 11A448
ELLIOTT, L: Stokes flow past two circular cylinders using a BEM, 2A50
- Treatment of singularities in time-dependent problems using the BEM, 5A50
- Application of the BEM to inverse heat conduction problems, 7A1240
ELLIOTT, SJ: Local active control of diffracted diffuse sound fields, 1A337
- Adaptive active attenuation of noise using multiple model approaches, 2A228
- Natural algorithms for choosing source locations in active control systems, 2A229
- Active cancellation of pressure and pressure gradient in a diffuse sound field, 3A280
- Strategies for the active control of flexural vibration on a beam, 3A378
- Active control of sound radiation using volume velocity cancellation, 3A281
- Active attenuation of periodic vibration in nonlinear systems using an adaptive harmonic controller, 5A696
- Active control of waves on a 1D structure with a scattering termination, 11A162
ELLIS, CR: Preliminary investigation of the use of air injection to mitigate cavitation erosion, 5A873
- Simulation and observation of ice formation (freeze-over) in a lake, 11A1443
ELLISON, GN: Thermal analysis of microelectric packages and printed circuit boards using an analytic solution to the heat conduction equation, 1A1266
ELLYIN, F: Rate-frequency-dependent behavior of fiberglass-epoxy laminates in tensile and cyclic loading, 1A545
- Behavior of small corner cracks in a ferritic pearlitic steel: Experiments and analysis, 1A747
- Crack phases of particulate-reinforced metal matrix composites, 5A638
- Finite elastoplastic constitutive formulation with new co-rotational stress-rate and strain-hardening rule, 5A449
- Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, 7A565
ELLZEY, JL: Emissions of CO and NO from a two stage porous media burner, 5A1226
ELMALAH, E: Crack identification in a cantilever beam under uncertain end conditions, 8A107
ELMALI, H: Introduction to the dual frequency fixed delayed resonator, 7A914
ELMAN, HC: Multigrid and Krylov subspace methods for the discrete Stokes equations, 10A1068
ELMARAGHY, HA: Impedance control approach for flexible joints robot manipulators, 3A410
- Constraint formulation for invariant hybrid position-force control of robots, 12A451
ELMER, K-H: Simulation of 3D waves for crack detection, 12A780
ELMOHANDIS, SMG: Pulsatile magnetohydrodynamic viscoelastic flow through a channel bounded by two permeable parallel plates, 4A1095
- Magnetohydrodynamic flow of second order fluid through a porous medium on an inclined porous plane, 4A1093
ELMQVIST, H: Modeling of multibody systems with the object-oriented modeling language Dymola, 7T91
ELNAGAR, A: Safety optimizing strategies for local path planning in dynamic environments, 4A1371
ELNAGAR, GN: Cell-averaging Chebyshev spectral method for the controlled Duffing oscillator, 4A197
ELNASHAI, AS: Novel technique for the retrofitting of reinforced concrete structures, 1A1396
- Behavior of beam-column connections under axial column tension, 10A890
- Effect of modeling assumptions and input motion characteristics on seismic design parameters of RC bridge piers, 10A1436
- Seismic response of composite frames - I: Response criteria and input motion, 12A1403
- Seismic response of composite frames - II: Calculation of behavior factors, 12A1404
ELPERIN , T: Temperature field in a multilayer assembly affected by a local laser heating, 2A1129
ELPERIN, T: Two models of fluid flow and mass transfer at the trailing edge of a gas slug, 2A957
- Formation of shock waves in gas-liquid foams, 3A931
- Acceleration of a sphere behind planar shock waves, 6A199
- Convective instabilities in rarefied gases by direct simulation Monte Carlo method, 10A1116
ELSALAWY, R: Some mechanistic observation on water-deteriorated dental composite resins, 2A1306
ELSAYED, MM: Steady state solutions of buoyancy-assisted internal flows using a BE-False Implicit Transient Scheme, 3A49
ELSAYED, N: Investigation of the lean operational limits of gas-fueled spark ignition engines, 12A1329
ELSHAKWEER, A: Testing evaluation of journal bearings, 5T836
- Experimental analysis of journal bearings, 5A827
ELSHAMY, M: Effect of atmospheric processes on launch decisions, 5A248
ELSHEHAWEY, EF: Electrohydrodynamic Kelvin-Helmholtz instability for a velocity stratified fluid, 3A962
ELSNER, W: Generation of flow periodicity in a wind-tunnel experiment, 10A1210
ELSOBKY, H: Eccentricity factor in the progressive crushing of tubes, 2A500
ELSWORTH, D: Modeling of miscible flow in multi-component porous media, 4A1294
ELTON, BH: Convergence of convective-diffusive lattice Boltzmann methods, 2A919
ELTZE, J: Optimization of a leg design, 2A822
ELVIN, AA: Microcracking due to grain boundary sliding in polycrystalline ice under uniaxial compression, 5A663
- Number of grains required to homogenize elastic properties of polycrystalline ice, 7A4
ELVIRA, G: Vibrations of a rectangular plate of non-uniform thickness partially embedded in a Winkler medium, 2T107
- Lowest axisymmetric frequency of vibration of a circular plate partially embedded in a Winkler foundation, 2T103
ELWAKEIL, OA: Methods for finding feasible points in constrained optimization, 2A726
ELWENSPOEK, M: Survey on the reactive ion etching of silicon in microtechnology, 10T723
- Electrochemical microactuator: Principle and first results, 11A359
ELWERR, FA: Thermal energy storage using a phase-change material, 8A1217
ELWI, AE: Adjustable refined strain field in degenerated shell elements, 11A31
- Degenerated plate-shell elements with refined transverse shear strains, 12A601
ELYASHEVICH, GK: High-strength polyethylene film fibers, 6A460
ELZEY, DM: Fiber damage during the consolidation of PVD Ti-6Al-4V coated Nextel 610™ alumina fibers, 2A649
- Power-law creep blunting of contacts and its implications for consolidation modeling, 9A497
EMA, S: Damping characteristics of an impact damper and its application, 5A109
EMAMI, S: Unsteady pressure behavior in a ramjet-scramjet inlet, 11A1312
EMANUEL, G: Oblique detonation wave engine performance prediction, 8A1297
EMBURY, JD: Plasticity and fracture of in-situ composites, 1A819
EMEL'YANOV, AA: Combined heat transfer in disperse systems with particles undergoing a metal-insulator transition, 5A1173
EMELIANOV, SY: Acoustic radiation force and streaming induced by focused nonlinear ultrasound in a dissipative medium, 10A371
EMERIAULT, F: Homogenization for granular materials: Non reversible behavior, 11A1314
- Micromechanical modeling of anisotropic nonlinear elasticity of granular medium, 11A409
EMERSON, AB: Single particle characterization of time-of-flight mass spectrometry, 2A1210
EMERY, AF: Time-dependent response of IM7/5260 composites subjected to cyclic thermomechanical loading, 3A471
- Nonlinear viscoelastic-viscoplastic behavior of IM7/5260 composites subjected to cyclic loading, 4A520
- Time-dependent response of IM7-5260 composites subjected to cyclic thermo-mechanical loading, 9A551
EMETS, VF: Plane inverse problem of elastic wave scattering by a thin-walled inclusion of little rigidity, 10A267
EMI, H: Removal of fine particles from smooth flat surfaces by consecutive pulse air jets, 4A1289
EMIN ERDOGAN, M: Unsteady viscous flow between eccentric rotating disks, 5A885
EMIN, ON: Aircraft and rocket engine design: Opportunity of using birotative turbine with straightening cascade in turbojet by-pass engines, 8A1290
EMIRSAJLOW, Z: Uncertain systems and minimum energy control, 1A378
EMMONY, DC: Interaction of a single laser-generated cavity in water with a solid surface, 10A345
EMOTO, T: Structure formation and strength development at early stage of hydration of rapid hardening portland cement (Japanese), 4A481
EMRAN KHAN, M: Instantaneous thermal efficiency of an active solar still, 5A1348
EMURA, T: Gear grinding by vitrified-bonded CBN wheel of screw shape (Japanese), 2T551
EN-KE, LUO: Model reference adaptive fuzzy control system on an stevenginе, 4A387
ENAYA, E: Performance of a thermodynamic water pump, 7A1203
ENDERS, P: Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, 3A1100
ENDO, H: Effect of size distribution of powders on yield value and viscosity of mortar (Japanese), 9A525
ENDO, I: Development of a wireless communication system for a distributed autonomous robotic system (Japanese), 2A312

- Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
ENDO, M: Study of the transient sound radiated by impacted solid bodies based on the BEM, 12A276
ENDO, T: Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, 5A811
ENDO, Y: Orientation-specific dynamic shape factors for doublets and triplets of spheres in the transition regime, 7A1349
- Size measurement of fine powders using the differential mobility analyzer - Application of boiling method for aerosol generation, 12A1335
ENEVOLDSEN, I: Effects of a vibration mass damper in a wind turbine tower, 11A152
ENFLO , BO: Saturation of nonlinear spherical and cylindrical sound waves, 9A387
ENGBLOM, JJ: Effect of delaminations in graphite-PEEK composite plates on modal dynamic characteristics, 1A569
ENGBLOM, WA: Experimental and numerical study of hypersonic forward-facing cavity flow, 12A1071
ENGEL, PA: Plastic deformation of solder joints in pin grid arrays subjected to thermal stress, 3A1183
- Impact of Delrin disc: Lubricated and dry contacts, 11A810
ENGEL, RS: Huygens principle for flow around an arbitrary body in a viscous incompressible fluid, 8A898
ENGEL, T: Optical characterization of laser-matter interaction: The welding application, 4T874
ENGEL, Z: Problem of source modeling, 1A283
- Audible noise of transmission lines caused by the corona effect: Analysis, modeling, prediction, 9A335
ENGELBRECHT, J: Deformation waves in thermoelastic media and the concept of internal variables, 8A1228
- KdV soliton formation and discrete spectral analysis, 10A289
ENGELMAN, M: Algorithm for simulation of steady free surface flows, 6A902
ENGELS, J: Gravitational field of topographic-isostatic masses and the hypothesis of mass condensation - II: The topographic-isostatic geoid, 8A1329
ENGELUND, WC: Mars Pathfinder six-dof entry analysis, 5A239
ENGINEER, M: Investigation of bond between concrete and composites: Use of a peel test, 8A668
ENGL, G: Modeling and numerical simulation of gas flow networks, 7T1084
ENGL, HW: Optimal strategies for the cooling of steel strips in hot strip mills, 8A561
ENGLISH, RG: Finite element analysis of a total knee replacement by using Gauss point contact constraints, 9A1463
ENGSTLER, CH: Numerical integration of constrained mechanical systems using MEXX, 3A105
ENIKEEV, FU: Optimal pressure variation during the superplastic forming of a circular diaphragm, 3T635
- Materials with a falling diagram, 5T432
ENNAJIMI, E: Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, 12A984
ENNS, D: Stability of dynamic inversion control laws applied to nonlinear aircraft pitch-axis models, 8A1019
ENOKI, M: Discussion on stability of landslides considering on scatter of strength parameter (Japanese), 4A616
ENOKSSON, P: Valve-less planar pump isotropically etched in silicon, 10T473
- Vibration modes of a resonant silicon tube density sensor, 11A352
ENOMOTO, K: Method of sensitivity analysis based on the characteristics of sensitivity coefficients of framed structures (Japanese), 5T689
ENOMOTO, M: Influence of soil type on collapse settlement of compacted soils during inundation (Japanese), 10A654
ENOMOTO, T: Study on precision grinding of axisymmetrical form: Mechanism of form generation (Japanese), 11A605
ENOMOTO, Y: Ceramic tribology in Japan, 1A574
ENOTO, T: Flow induced by temperature gradient along wall in rarefied gas container, 11A927
ENTA, M: Proposition of an improved differential stereo vision method: Simultaneous measurement of 3D coordinate and inclination of surface, 3T413
ENTHOVEN, J: Infrared and visual study of the mechanisms of scuffing, 8A796
ENTOV, VM: Nonlinear interface dynamics in Hele-Shaw flows, 4A940
EOM, HYO J: Acoustic scattering from a circular aperture in a thick hard screen, 3A269
EOM, IN-SUP: Robust design for unconstrained optimization problems using the Taguchi method, 10A1029
EPARKHIN, OM: Cast iron structures and stress effect of thermally treated cylinder sleeves on their wear, 5A783
EPINATIEV, AM: Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, 12A1333
EPPINK, RT: Pressure-induced mechanical stress in the carotid artery bifurcation: A possible correlation to atherosclerosis, 2A1298
EPPLE, B: Computerized analysis of low-NO_x coal-fired utility boilers, 8A1277
EPPS, JJ: Natural frequencies of rotating composite beams with tip sweep, 7A184
EPSTEIN, JS: Micromechanics of a model heterogeneous material system under compressive loading, 5A675
- Measurements of solid deformation by phase-shifting interferometry, 8T693
EPSTEIN, L: Repulsion algorithm, a new multistart method for global optimization, 12A829
EPSTEIN, M: Geometry of uniformity in second-grade elasticity, 8A397
- Stability of muscle fibers on the descending limb of the force-length relation: A theoretical consideration, 8A1418
- Geometrical material structure of anelasticity, 9A4
- Temperature rise at the surface of a liquid layer subject to a concentrated heat source placed above the layer, 11A1119
EPSTEIN, RI: Ekman pumping in compact astrophysical bodies, 10A1104
EPSTEIN, RJ: Alternative solution of the kernel function in subsonic unsteady lifting surface theory, 4T1107
ER, CJ: Bonded boron-epoxy composite repair and reinforcement of cracked aluminum structures, 11A672
ERA, P: Postural stability and skilled performance: A study on top-level and naive rifle shooters, 6A1381
ERBAY, HA: Finite axisymmetric deformations of elastic tubes: An approximate method, 2A360
ERBE, C: Sommerfield's half-plane problem for equations of linear thermoelasticity, 4A1229
ERCENGIZ, A: Non-symmetrical wave propagation in arteries, 3A1408
ERDEN , A: Comparison of mathematical models for electric discharge machining, 10A1326
ERDIK, M: Evaluation of Surgu dam response during May 5, 1986 earthquake, 5A1319
ERDINC, I: Optimization of the adhesive joint Iosipescu specimen for pure shear test, 12A998
ERDMAN, AG: Use of compatibility linkages and solution structures in the dimensional synthesis of mechanism components, 11A826
ERDMAN, PW: Examination of OH ultraviolet radiation from shock-heated air, 10A1306
ERDMANN, B: A posteriori error estimates for elliptic problems in two and three space dimensions, 12A26
ERDMANN, M: Understanding action and sensing by designing action-based sensors, 2A317
ERDOGAN, F: Axisymmetric crack problem in bonded materials with a graded interfacial region, 3A691
- Periodic cracking of functionally graded coatings, 4A736
- Crack problems in FGM layers under thermal stresses, 10A1333
ERENS, PJ: Modeling of cooling tower splash pack, 3A1162
ERHARDT, W: Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer, 6A1368
ERHEL, J: Implementation of a Generalized Cross Validation algorithm using deflation techniques for linear systems, 6A58
- Restarted GMRES preconditioned by deflation, 12A85
ERICKSON, GE: High angle-of-attack aerodynamics, 2A1027
ERICKSON, GL: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223
ERICKSON, WD: Numerical simulation of nonequilibrium condensation in a hypersonic wind tunnel, 10A1279
ERICSSON, LE: Challenges in high-alpha vehicle dynamics, 2A950
- Wing rock analysis of slender delta wings: Review and extension, 5A1013
- Dynamic airfoil flow separation and reattachment, 5A992
- Flat spin of axisymmetric bodies, 5A1003
- Separated flow mechanisms in F-18 wing rock, 7A1158
- Ground facility interference effects on slender vehicle unsteady aerodynamics, 7A1166
- Review of forebody-induced wing rock, 9A1222
- Pitch rate effects on delta wing vortex breakdown, 11T1019
- Difficulties in predicting vortex breakdown effects on a rolling delta wing, 11A1033
ERICSSON, T: Anisotropy of elastic properties in various aluminum-lithium sheet alloys, 9A486
ERIKSEN, GF: Packaging of physical sensors for aggressive media applications, 10T445
- Protective coatings in harsh environments, 10T470
ERIKSSON, A: Element behavior in post-critical plane frame analysis, 1A650
ERIKSSON, AS: Ultrasonic wave propagation through a cracked solid, 4A239
ERIKSSON, E: Adaptive FEMs for parabolic problems - V: Long-time integration, 4A23
ERIKSSON, K: Adaptive FEMs for parabolic problems - IV: Nonlinear problems, 4A22
ERIKSSON, LJ: Active sound and vibration control: A technology in transition, 9A373
ERIKSTAD, SO: Integrating robustness into multiobjective space vehicle design process, 3T315
- Experimental satellite trajectory analysis using decision-based robust design, 3A348
ERINGEN, AC: Lubrication theory for fluids with microstructure, 4A1122
ERIPRET, C: Experimental J evaluation from a load-displacement curve for homogeneous and over-matched SENB or CCT specimens, 1A797
ERKEN, A: PostTesting correction procedure for membrane compliance effects on pore pressures, 6A522
ERLEBACHER, G: Wavelets: Theory and Applications - ICASE-LaRC Series in Computational Science and Engineering, 10N5
ERLINGSSON, S: Live load induced vibrations in Ullevi stadium: Dynamic soil analysis, 9A668
ERMERT, H: Reconstruction of fluid motion in acoustic diffraction tomography, 10A1237
ERMOLAEVA, NS: Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, 3A723
ERMOPOULOS, J: Design of steel frames with slender joint-panels, 1A649
ERMOPOULOS, JC: Behavior of square joints of steel frames under bending moments, 3A859
- Mathematical modeling of column base plate connections, 7A955
ERMOSHIN, DA: Instability of density stratified vortices, 4A1062
ERN, A: Detailed chemistry modeling of laminar diffusion flames on parallel computers, 3A1238
- Volume viscosity of dilute polyatomic gas mixtures, 4A892
ERNST, B: Drop deformation during elongational flow in blends of viscoelastic fluids: Small deformation theory and comparison with experimental results, 5A866
ERNST, T: Results of induction study within the Pomeranian segment of the Teisseyre-Tornquist tectonic zone, 6T1261
ERNSTMEYER, J: VLF wave experiments in space using a modulated electron beam, 1A277
EROL SEZER, M: Robust adaptive stabilization of a class of systems under structured nonlinear perturbations with application to interconnected systems, 8T265
ERRICOLO, D: Perturbation approach for low frequency noise in junction field effect transistors, 7A71
ERSOY, A: Wear characteristics of PDC pin and hybrid core bits in rock drilling, 3A830
ERTAS, A: Acoustic radiation efficiency of a rectangular plate with different boundary conditions, 3A246
- Rating thread compounds for galling resistance, 5T788
ERTEKIN, RC: Boundary Element Technology XI - Int Conf on Boundary Element Technology, BETECH 96, 10N2
- Application of the Haskind-Hanaoka relations to hydroelasticity problems, 2A190
- Vibration of a free-free beam under tensile axial loads, 7T146
- Setdown of a catenary-moored gravity platform, 9A957
ERTSEGOVICH, D: Novel equipment and Technology for tilling the soil, 6A539
ERVIN, J: Temperature measurement of a curved surface using thermographic phosphors, 4A1128
ERVIN, JS: Surface effects on deposits from jet fuels, 10A1374
ERVIN, V: A posteriori error estimators for a two-level FEM for the Navier-Stokes equations, 9A1091
ESASHI, M: Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, 3A395
- Microphysical investigations on mechanical structures realized in p+ silicon, 5T352
- Micromachining: Present and future (Japanese), 7T767
ESAT, II: Factorial design approach to investigate the effect of geometry in drill string screw connectors, 1A947
ESCAIG, Y: Optimization of direct domain decomposition methods, 10A10
ESCANES, F: Thermal and fluid-dynamic behavior of double-pipe condensers and evaporators: A numerical study, 4A1218
ESCH, T: Numerical analysis of nozzle and afterbody flow of hypersonic transport systems, 5A1036
ESCHENAUER, HA: Parallel decomposition algorithm in application to structural design, 12A825
ESCHER, F: Complexation induced changes of rheological properties of starch systems at different moisture levels, 4A885
ESCOE, AK: Mechanical Design of Process Systems, Vol 2, Second Edition: Shell-and-Tube Heat Exchangers, Rotating Equipment, Bins, Silos, Stacks, 3N24
ESCUDIER, MP: Pipe flow of a thixotropic liquid, 8A949
- Flow of a shear-thinning liquid in a cylindrical container with a rotating end wall, 10A1075
ESCURET, J-F: Active control of surge in multi-stage axial-flow compressors, 6A1030
ESER, D: Air flow in cavities of labyrinth seals, 4A1113
ESHRAGHI, H: Matrix profile and wavefront reduction based on the graph theory and wavefront minimization, 9A62
ESLAMI, H: Thermally induced vibration of a symmetric cross-ply plate with hygrothermal effects, 3T1172
ESLAMI, MR: Buckling of truncated conical shells based on improved stability equations, 2A499
- Technique to distinguish the primary and secondary stresses, 5A759
- Thermoelastic buckling of thin cylindrical shells based on improved stability equations, 12A626
ESLIMY-ISFAHANY, SHR: Dynamic response of an axially loaded bending-torsion coupled beam, 11A105
ESMAEELI, A: Inverse energy cascade in 2D low Reynolds number bubbly flows, 11A1047
ESMAILZADEH, E: State-feedback control for passenger ride dynamics, 6A163
ESMEN, NA: Adhesion and aerodynamic resuspension of fibrous particles, 10T1117
ESPEDAL, MS: Wavelet upscaling based on piece-wise bilinear approximation of the permeability field, 11A1327
ESPING, B: Optimization of a racing ski, 2A730
- Design optimization as an engineering tool, 6A855
ESPINOSA, HD: Dynamic shear resistance of ceramic composites and its dependence on applied multiaxial deformation, 1A568
- Dynamic failure mechanisms of ceramic bars: Experiments and numerical simulations, 2A446
ESPOSITO, A: Method to reduce the rejection rate for low performance at the acceptance test of PWC PT6T-6 overhauled power sections, 10A1397
ESPOSITO, F: Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, 4A1288
ESPOSITO, L: Effect of microstructure on fracture toughness of polycrystalline alumina, 8A677
ESPOSITO, PG: Viscous-inviscid coupling in free surface ship flows, 3A899
ESSA, HS: Design of steel beams in cantilever-suspended-span construction, 3A525
ESSARY, B: Resonance control of aircraft instabilities by smooth and continuous feedback, 4T378
ESSEBIER, S: Computational techniques for nonlinear dynamics of continuous systems, 3A146
ESTEBAN, M: Nonlinear kinetic equations with dissipative collisions, 2A916
ESTEFEN, SF: Buckle arrestors for deepwater pipelines, 12A1436
ESTEKANCHI, H: Characteristics of an off-center bracing system, 5A729
ESTEKI, A: Experimentally based nonlinear viscoelastic model of joint passive moment, 8A1421
ESTEP, D: Modified equation for dispersive difference schemes, 2A1174
ESTES, KA: Correlation of Sauter mean diameter and critical heat flux for spray cooling of small surfaces, 1A1229
ESTEVE, J: New process for releasing micromechanical structures in surface micromachining, 10T468
- Surface micromachining technology applied to the fabrication of a FET pressure sensor, 10A471
ESTIVALEZES, JL: Numerical study of an unsteady confined jet: Application to crossflow filtration, 9A1167
ESTRADA, CA: Mathematical simulation of a solar ejector-compression refrigeration system, 12A1431
ESWARAN, V: Fully spectral solution method for parabolic equations, 2A56
- Fully spectral method for hyperbolic equations, 5A60
ETEMADI-ZANGANEH, K: Real-time direct kinematics of general six-dof parallel manipulators with minimum-sensor data, 4A401
ETHIER , CR: MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, 8T1438
ETHIER, CR: Particle volumetric residence time calculations in arterial geometries, 11A1466
ETIENNE, J: Measurement technique of shock wave pulses at extremely high pressures, 9A394
ETINGOF, PI: Nonlinear interface dynamics in Hele-Shaw flows, 4A940
ETKIN, B: Dynamics of Flight: Stability and Control, Third Edition, 5N25
ETSION, I: Accuracy of the isoviscous solution of the Reynolds equation in mechanical seals, 11A822
ETTEMA, R: Numerical model of flow in ice-covered channel, 6A874
ETZION, O: Temporal database with data dependencies: A key to computer integrated manufacturing, 8A371
EVANGELOPOULOS, A: Large DHW solar systems with distributed storage tanks, 3A1376
EVANS, AG: Analysis of the double cleavage drilled compression specimen for interface fracture energy

measurements over a range of mode mixities, 1A839
- Stress redistribution around mechanical attachments in ceramic matrix composites, 1A546
- Fracture resistance measurement method for bimaterial interfaces having large debond energy, 1A814
- Experimental study of the mechanisms of crack extension along an oxide-metal interface, 8A663
- Interface cracking phenomena in constrained metal layers, 12A745
EVANS, AGR: Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, 10A461
- Coupled FEM simulation for the characterization of the fluid flow within a micromachined cantilever valve, 10T454
EVANS, BS: Computer simulation of the deformation of dough-like materials in a parallel plate gripper, 10A476
EVANS, DJ: Models of asynchronous parallel nonlinear multisplitting relaxed iterations, 6A61
- Explicit Alternating Direction methods and their applications to problems in fluid mechanics, 12A1057
EVANS, DV: Edge waves along periodic coastlines - Part 2, 2A174
- Scattering by a periodic array of rectangular blocks, 6A196
- Hydrodynamic characteristics of an oscillating water column device, 7A1400
- Wave scattering by periodic arrays of breakwaters, 10A268
EVANS, HE: Mechanical failure of thin brittle coatings, 2A599
EVANS, HP: Conditions for scuffing failure of ground and superfinished steel disks at high sliding speeds using a gas turbine engine oil, 5T790
- Thrust cone lubrication - Part 1: Elastohydrodynamic analysis of conical rims, 11T1078
EVANS, HR: Residual strength of aluminum plate girders with scattered holes in the web panels, 7A968
EVANS, JPO: New stereoscopic X-ray imaging technique using a single X-ray source: Theoretical analysis, 8A694
EVANS, JR: Reliable automatic detection of long-period volcanic earthquakes at Long Valley Caldera, California, 3A1278
EVANS, JRG: Ultrafine ceramic powder injection moulding: The role of dispersants, 6A868
EVANS, M: Statistical properties of the failure time distribution for 1/2Cr 1/2Mo 1/4V steels, 6A630
- Influence of external fixators on fracture motion during simulated walking, 11A1460
EVANS, NE: Vaginal temperature sensing using UHF radio telemetry, 7A1414
EVANS, RH: Martin-Hou, Peng-Robinson and Redlich-Kwong-Soave equations of state for HFC 125, 6A1061
- From pure fluids to zeotropic and azeotropic mixtures: The effects of refrigerant-oil solubility on system performance, 6A1153
- Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284
- Development of engineering design data for new refrigerants - I: Pure fluids and azeotropic mixtures, 8A1296
EVANS, RL: Extending the fatigue life of multi-layer metal joints, 5A605
- Effects of periodic wake structures on turbulent boundary layers, 11A992
EVANS, TT: Measurements of the mean heat transfer in a shock wave-turbulent boundary layer interaction, 6A949
EVANS, WJ: Effect of short carbon fiber reinforcement on fatigue crack growth in PEEK, 12A710
EVEKER, KM: Simplified approach for control of rotating stall - Part I: Theoretical development, 4A1112
- Simplified approach for control of rotating stall - Part 2: Experimental results, 4A1121
- Control-oriented high-frequency turbomachinery modeling: General 1D model development, 5A1023
EVENSEN, HA: Longitudinal vibrations of a beam: A gradient elasticity approach, 7T220
EVERETT, RK: Quantification of random fiber arrangements using a radial distribution function approach, 11A479
EVERY, AG: Phase singularities in scanning acoustical microscopy, 5A272
EVGIN, E: Three dimensional anisotropic constitutive model for ductile behavior of columnar grained sea ice, 9A516
EVIN, E: Evaluation of the wear behavior of dual-phase low carbon steel, 12A903
EVKIN, AY: Stability of axisymmetrical equilibrium states of orthotropic spherical shells under large deflections written (Russian), 7A629
EVTUSHENKO, AA: Sliding bodies contact with wear, 6A802
- Influence of thermoresistance on the main contact characteristics in the 2D setting, 7A1244
- Heat conditions in friction braking, 10A966
EWART, TE: Effect of random sea surface and bottom roughness on propagation in shallow water, 5A263
EWING, C: Bayesian state estimation for tracking and guidance using the bootstrap filter, 4T339
EWING, MS: Forced vibration of two beams joined with a nonlinear rotational joint: Clamped and simply supported end conditions, 12A149
- Response of a tactical missile to convected aerodynamic excitation, 12A1173
EWING, RE: Domain decomposition algorithms for mixed methods for second-order elliptic problems, 9A56
EWINS, DJ: Role of the generalized inverse in structural dynamics, 2A89
- Measurement of translational and angular vibration using a scanning laser Doppler vibrometer, 7A881
- Modeling 2D friction contact and its application using harmonic balance method, 12A895
EXADAKTYLOS, G: Integral equations of thermoelasticity and thermoconductivity for cracked isotropic or anisotropic multiply connected bodies with reinforcement, 1A1296
EXADAKTYLOS, GE: Plane contact of a cylindrical opening stiffened by a thin shell, 1A619
EXBERGER, RJ: Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
EXELL, RHB: Solar radiation mapping from satellite image using a low-cost system, 9A1424
EXNER, HE: Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, 11A1199
EYI, S: Effects of sensitivity derivatives on aerodynamic design optimization, 9A1232
- High-lift design optimization using Navier-Stokes equations, 11A1021
EYINK, GL: Exact results on stationary turbulence in 2D: Consequences of vorticity conservation, 8A976
EYRE, D: L_p-approximation method for the numerical solution of singular integral equations, 1T74
EYUBOV, YA: Variational principle in calculating the long-term strength of structures, 8A763
EZAWA, Y: Development of contact stress analysis programs using the hybrid method of FEM and BEM, 1A460
- Development of contact stress analysis programs using the hybrid method of FEM and BEM, 3A434
- Computational study of contact mechanics between magnetic recording heads and thin-film disks, 8A792
EZEDOYE, OA: Modeling of a Lagrangian flamelet with radiation interaction, 3A1235
EZEKOYE, OA: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2, 3N33
EZERSKY, AB: Instability of density stratified vortices, 4A1062
EZUGWU, EO: Surface abuse when machining cast iron (G-17) and nickel-base superalloy (Inconel 718) with ceramic tools, 7A749
EZZAT, MA: Fundamental solution in thermoelasticity with two relaxation times for cylindrical regions, 4A1238

F

FABBRO, R: Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A769
FABER, KT: Cohesive crack modeling of influence of sudden changes in loading rate on concrete fracture, 4A742
FABER, TE: Fluid Dynamics for Physicists, 2R32
FABRE, E: Differential interferometry for studying hypersonic flows, 8A918
FABRE, J: Experimental study of interfacial long waves in a two-layer shear flow, 4A276
FABRIKANT, VI: Complete solution to the problem of an external circular crack in a transversely isotropic body subjected to arbitrary shear loading, 3A678
FABRIZIO, M: Internal dissipation, relaxation property, and free energy in materials with fading memory, 4A454
FACAS, GN: Natural convection from a buried elliptic heat source, 6A1078
- Natural convection from a cylinder with multiple, low-conductivity, longitudinal baffles, 10A1253
FACCHINI, B: Numerical method for power plant simulations, 8A1285
FACCHINI, M: Estimation of masonry mechanical characteristics by ESPI fringe interpretation, 3A520
FACCIOLO, F: Correlation between flexural and tensile fatigue response of short glass fiber reinforced plastics, 12A538
FADALI, MS: Disturbance rejection control of bridge response to earthquake excitation, 8A1338
FADEEV, IV: Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, 10A1176
FADEL, GM: Coupling through move limits in multidisciplinary optimization, 8A710
FADHIL, S: Modified Kirchhoff theory for BE analysis of thin plates resting on two-parameter foundation, 6A487
FAELLA, G: Evaluation of the inelastic response of systems under biaxial seismic excitations, 12A1402
FAETH, GM: Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, 5T952
- Hydrodynamic suppression of soot emissions in laminar diffusion flames, 6A1196
- Soot morphology and optical properties in nonpremixed turbulent flame environments, 8A1261
- Soot nucleation and growth in acetylene air laminar coflowing jet diffusion flames, 8T1262
- Soot formation in hydrocarbon-air laminar jet diffusion flames, 9A1319
- Spectral extinction coefficients of soot aggregates from turbulent diffusion flames, 11A1210
- Measurements of the structure of self-preserving round buoyant turbulent plumes, 11T971
FAFARD, M: Exact stability model of space frames, 11A546
- Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, 11A14
FAFITIS, A: Periodic response and stability of rigid mass resting on friction-damped SDOF oscillator, 3A172
FAGHRI, A: Heat transfer in the inverted meniscus type evaporator at high heat fluxes, 1A1249
- Analysis of thermal energy storage system with conjugate turbulent forced convection, 3A1024
- Analysis of forced convection heat transfer in microencapsulated phase change material suspensions, 3A1023
- Heat transfer during evaporation on capillary-grooved structures of heat pipes, 3A1154
- Semi-analytical solution of thermal energy storage system with conjugate laminar forced convection, 5A1184
- Fluid flow analysis in an axially rotating porous pipe with mass injection at the wall, 5A1298
- Estimation of the maximum heat flux in the inverted meniscus type evaporator of a flat miniature heat pipe, 8A1202
- Heat transfer enhancement in latent heat thermal energy storage system by using an external radial finned tube, 8A1215
- Enhanced flat miniature axially grooved heat pipe, 8T1201
- High flux evaporative mini-channel heat sink with axial capillary grooves, 11A1222
- Integral approximate solution of heat transfer in the grinding process, 11A1187
FAGHRI, M: Prediction of turbulent heat transfer in the entrance of an array of heated blocks using low-Reynolds-number κ-ε model, 1A1183
- Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, 3A1049
- New low-Reynolds-number k-ε model for turbulent flow over smooth and rough surfaces, 12A1155
FAH, D: Simulation of the seismic response of a 2D sedimentary basin: A comparison between the indirect BEM and a hybrid technique, 3A1339
FAHIM, A: Neural networks representation of a vehicle model: "Neuro-Vehicle", 8A343
FAHIM, M: Role of polymeric matrices in improving wear resistance of irradiated FRP composites, 6T801
FAHIM, MA: Performance of a thermodynamic water pump, 7A1203
FAHMY, EH: Analysis of composite beams with rectangular web openings, 8A481
FAHOUM, K: Dynamic properties of cohesive soils treated with lime, 10A658
FAHRENTHOLD, EP: Eulerian bond graphs for fluid continuum dynamics modeling, 9A402
FAHRER, A: Study of the failure behavior of key-lock joints in glass fiber reinforced plastic pipework, 11A687
FAHY, FJ: Vibro-acoustic reciprocity principle and applications to noise control, 7A358
- Study of the kinetic energy impulse response as an indicator of the strength of coupling between SEA subsystems, 8A100
FAIDI, SE: Elasticity and fracture in particulate composites with strong and degraded interfaces, 10A792
FAIRBROTHER, RJ: Development and validation of a computer simulation model for diesel fuel injection systems, 10A1385
FAIRFIELD, CA: Modal analysis for masonry arch bridge spandrell wall separation identification, 6A160
FAIRWEATHER, G: Diffusion flame over a continuous moving fuel plate under microgravity, 6A1206
- Workshop on the method of lines for time-dependent problems, May 31-June 4, 1995, University of Kentucky, 10A42
FAITAKIS, YE: Residual generation and fault detection for discrete-time systems using an l_{∞} technique, 11A363
FAJFAR, P: N2 method for the seismic damage analysis of RC buildings, 6A1276
FALBO , RA: Heat islands influence on the Dispersion of Contaminants by the atmosphere, 7A1387
FALCONER, RA: Depth integrated modeling of tide induced circulation in a square harbor, 1A982
FALCOVITZ, J: Recent developments of the GRP method, 4A78
- Experimental and numerical study of the interaction between a planar shock wave and a square cavity, 11A204
FALK, RH: Laminating effects in glued-laminated timber beams, 6A760
FALK, RS: Stability of cylindrical bodies in the theory of surface diffusion, 6A1181
- Asymptotic analysis of the boundary layer for the Reissner-Mindlin plate model, 9A580
FALLAHI, B: Finite element formulation of a flexible slider crank mechanism using local coordinates, 5A10
- Nonlinear FE approach to kineto-static analysis of elastic beams, 7A15
FALLER, AJ: Random-flight evaluation of the constants of relative dispersion in idealized turbulence, 12A1147
FALLER, SE: Real-time model of 3D dynamic reattachment using neural networks, 5A935
FALLER, WE: Neural network prediction and control of 3D unsteady separated flowfields, 5A934
- Dynamic reattachment on a downward pitching finite wing, 9A1218
FALLSTROM, K-E: Generating and recording transient bending waves in plates by pulsed lasers, 7T247
FALNES, J: State-space modeling of a vertical cylinder in heave, 11A219
FALSONE, G: Non-Gaussian approach for stochastic analysis of offshore structures, 3A816
- Influence of the quadratic term in the alongwind stochastic response of SDOF structures, 12A847
FALTAS, MS: Transient development of axisymmetric surface waves, 1A225
FALTINSEN, OM: Cobblestone effect on surface effect ships, 12A203
FALZON, BG: Shape optimization of interior cutouts in composite panels, 8A725
FAM, MA: Study of clay-cement slurries with mechanical and electromagnetic waves, 10A667
FAN , AIMING: Investigation of the corrosive wear of stainless steels in aqueous slurries, 11A645
FAN , CUNHAI: Decentralized output feedback fault-tolerant control for uncertain large-scale systems, 7A420
FAN , JIANPING: Analysis of deflection to laminated plate using beam eigenfunction (Chinese), 9T589
FAN , JIAQI: Contour integral method for stress intensity factors of mixed-mode crack (Chinese), 9A797
FAN , XUQI: Numerical solution of inverse eigenvalue problem in dynamics model updating (Chinese), 9T64
FAN , ZHILIANG: Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), 9A29
FAN, CW: Punch problems for an anisotropic elastic half-plane, 9A481
FAN, GUANGHUA: Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), 7A758
FAN, GW: Complex modal analysis of a flat belt pulley system with belt damping and Coulomb-damped tensioner, 12A950
FAN, H: Elimination of spurious pressure and kinematic modes in biquadratic nine-node plane element, 4A29
- Economical assumed stress brick element and its implementation, 7A40
FAN, HUA-TZU: Case studies on modeling manufacturing processes using artificial neural networks, 5A381
FAN, HUI: Two-dimensional contact on a piezoelectric half-space, 7A684
FAN, JIANQIANG: Statistical analysis of brittle solid damage based on network model, 7A780
FAN, K: New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, 2A318
FAN, L-S: Three-dimensional particle image velocimetry for use in three-phase fluidization systems, 4A1314
FAN, NY: Rare earth doped fiber for structural damage assessment, 2A710
FAN, QINSHAN: Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, 12A610
FAN, SC: Extrapolated Galerkin time FEs, 10A29
FAN, X-J: Traction-based completed adjoint double layer BEM in elasticity, 1A474
FAN, XJ: Combination of the weight function method and the line spring model: A surface-cracked cylindrical shell subjected to stress gradients, 1A833
- Three-strip yield model in mixed-mode fracture, 4A716
FAN, XUEJUN: Elastoplastic branched analysis for an interface crack based on crack energy density, 1A794
- Catastrophe analysis on the stability of the crack growth in three-point bending specimens, 12A741
FAN, XUGI: Stress concentration of finite composite laminates weakened by multiple elliptical holes, 1A560

FAN, XY: Cell-to-cell mapping method for time-optimal trajectory planning of multiple robot arm systems, 2A322
FAN, Y: Propagation of non-stationary random waves along substructural chains, 4A242
- Advances of the harmonic balance method, 9T148
FAN, YIGANG: Time-optimal lateral maneuvers of an aircraft, 3A360
- Mixed H_2/H_∞ optimal control for an elastic aircraft, 11A284
FAN, YJ: Bending and vibration analysis of composite sandwich plates, 11A133
FANDREJEWSKA, E: Influence of material distribution between flanges and Web on the behavior of wooden beams with flexible joints (Polish), 10A911
FANG , YINGGUANG: Dynamic singular solution of orthotropic layered elastic half-plane and its application, 9A539
FANG, B: Stress analyses of solids with rectangular holes by 3D special hybrid stress elements, 8A47
FANG, BIAO: Experimental and theoretical study on numerical density evolution of short fatigue cracks, 3A650
FANG, DACHENG: Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), 7A758
FANG, HAI-PING: Symbolic dynamics of the Lorenz equations, 9A1405
FANG, HE: Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, 6A18
FANG, HL: Nonlinear seismic response analysis method for saturated soil-structure system with absorbing boundary, 11A1402
FANG, HONG: Plastic post-buckling of a simply supported column with a solid rectangular cross-section, 4A565
FANG, HONG-SHENG: Mathematical model and bearing contacts of the ZK-type worm gear set by oversize hob cutters, 7A1009
FANG, HONG-WEI: Improvement of finite-analytic discretization of incompressible 3D Navier-Stokes equations, 1A1012
FANG, HONGWEI: Study on 3D mathematical model of river bed erosion for water-sediment two-phase flow, 10A1062
FANG, J: Load carrying capacities of circular rings with arc-shaped supports, 8A482
- Saturation Impulses for dynamically loaded structures with finite-deflections, 8A141
- Hydrodynamic damping contributions for an advanced floating production system design, 9A1210
- Notch sensitivity of circular rings subjected to impact loading, 10A278
- Structural damping of tensioned pipes with reference to cables, 12A157
FANG, J-S: Determination of elastic constants of a concrete specimen using transient elastic waves, 3A722
FANG, JIANCHENG: Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), 11A1246
FANG, JIANJIE: Diagnosis of local uncertain modifications in the boundary conditions of a rectangular plate via convex modeling, 1A628
FANG, JIANN-SHYONG: Parallel approach of the inverse kinematics solutions for robots using a transputer network, 11A344
FANG, JM: Solution-adaptive approach for unsteady flow calculations on quadrilateral-triangular meshes, 9T90
FANG, PP: Effect of eccentricity and thermal boundary conditions on laminar fully developed flow in annular ducts, 1A1175
FANG, SC: New approach to tolerance allocation in design cost analysis, 2A341
FANG, TM: Particle-loaded composites for acoustic anechoic coatings, 1A334
FANG, TONG: New procedure for orthogonalization of measured modes considering structural symmetry (Chinese), 4T207
FANG, TUNAN: Yield stress and maximum packing fraction of concentrated suspensions, 5A862
FANG, W: Comments on measuring thin-film stresses using bi-layer micromachined beams, 6A345
FANG, XD: Mechanical design of a new tooling mechanism with on-line controllability of inclination angle, 3A854
- Assuring the matchable degree in selective assembly via a predictive model based on set theory and probability method, 11A401
FANG, XIANGMING: Sensitivity analysis of structural anti-resonance (Chinese), 10A203
FANG, XING: Simulation and observation of ice formation (freeze-over) in a lake, 11A1443
FANG, Y: Steady load-carrying capacity of recessed hydrodynamic bearings, 4T1124
- Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, 7T1186
- Novel variable impedance hydrodynamic oil-film bearing - Part 1: Theoretical modeling, 7A1185
FANG, YAOQI: Experimental study of axial heat conduction of oscillating tube's wall (Chinese), 8A1160
FANG, YINGGUANG: Series solution for scattering of plane SH-waves by multiple shallow circular-arc canyons, 4A246
FANG, Z: Stability of some shear flows for concentrated suspensions, 9A1042
- Entrance length and pulsatile flows of a model concentrated suspension, 12A1004
FANG, ZHIYU: Finite element simulation of 2D-square cavity flow (Chinese), 8A27
FANG, ZIHU: Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), 9A29
FANGET, A: Finite strain elastic-plastic model for the quasi-static behavior of particulate composites, 11A470
FANGHELLA, P: Metric relations and displacement groups in mechanism and robot kinematics, 5A366
- Kinematics of single-loop mechanisms and serial robot arms: A systematic approach, 5A364
FANNEY, AH: Thermal performance of residential electric water heaters subjected to various off-peak schedules, 11A1236
FANNIO, LO: Multiple periodic solutions of asymptotically linear Hamiltonian systems, 8T89
FANOUS, FS: Service load test of 1:3 scale shell bridge model, 7A966
FARABEE, TM: Flow Noise Modeling, Measurement and Control, NCA-Vol 19-FED-Vol 230 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 4N6
FARAG, HM: Material modeling for transient dynamic analysis of reinforced concrete structures, 12A843
FARAG, NH: Dynamic response and power flow in 2D coupled beam structures under in-plane loading, 10A923
FARAHI, MH: Optimal control of the linear wave equation, 10T414
FARAHMAND, B: Theoretical approach for evaluating the plane strain fracture toughness of ductile metals, 9A813
FARAVELLI, T: Wide-range modeling study of n-heptane oxidation, 1A1337
FARBER, BS: Biomechanical basis of choosing the rational mass and its distribution throughout the lower limb prosthesis segments, 6A1371
- Above-knee prosthesis with a system of energy recovery: A technical note, 6A1370
FARDANESH, B: Decentralized control of large-scale power systems with unknown interconnections, 8A276
FARELL, C: Experiments on turbulence management using screens and honeycombs, 9A1195
FARGHALY, SH: Exact frequency equation for an axially loaded beam-mass-spring system resting on a Winkler elastic foundation, 1A131
- Free vibration of a stepped composite Timoshenko cantilever beam, 4T157
FARHANGDOOST, K: Stochastic systems approach to fatigue reliability: An application to Ti-6Al-4V, 8A605
FARHANGNIA, M: Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, 3A1067
FARHAT, C: Implicit time integration of a class of constrained hybrid formulations - Part I: Spectral stability theory, 1A210
- Scalable Lagrange multiplier based domain decomposition method for time-dependent problems, 4A90
FARHEY, DN: Repaired RC flat-slab-column subassemblages under lateral loading, 3A781
FARHLOUL, M: Analysis of non-singular solutions of a mixed Navier-Stokes formulation, 8A905
FARIA, LO: Dynamic surface solutions in linear elasticity and viscoelasticity with frictional boundary conditions, 5A391
FARIA, R: Seismic evaluation of concrete dams via continuum damage models, 1A1398
FARID, MM: Distillation of ethanol in a solar still: Studies on heat and mass transfer, 3A1366
- New development in the theory of heat and mass transfer in solar stills, 5A1354
FARLEY, CT: Leg stiffness and stride frequency in human running, 6A1327
FARMER, SB: Predicting and analyzing X-rays to measure propellant crack propagation speed, 8A686
FAROKHI, S: Subsonic aerodynamics and performance of a smart vortex generator system, 9A1225
FAROOQ, A: Linear and nonlinear dynamics of a differentially-heated slot under gravity modulation, 11A90
FAROOQ, MK: Acoustic emission monitoring of wear in hacksaw blades, 7A887
FAROUK, B: Mixed convection around a heated rotating horizontal square cylinder in a circular enclosure, 1A1208
- Turbulent natural convection-nongray gas radiation analysis in a square enclosure, 12A1253
FARRAGHER, L: Recycling of composite materials, 7A588
FARRAR, CR: Simplified method for evaluating the seismic buckling capacity of unstiffened steel containment structures, 2A502
FARRAR, LC: Prototypic magnetohydrodynamic anode designs and test results, 4A1100
FARRELL, J: Calculation of discrete-time process noise statistics for hybrid continuous and discrete-time applications, 11A270
FARRELL, KJ: Measurements of the tip clearance flow for a high-Reynolds-number axial-flow rotor, 5A1059
FARRELLY, FA: Calculation of the eigenmodes of a non-homogeneous clamped membrane, 6A127
FARRER, DB: Kinetics of biopolymer gelation: Implications of a cascade theory description for the concentration, molecular weight, and temperature dependences of the shear modulus and gel time, 4A878
FARRINGTON, RB: Observations of a planar jet subjected to large-amplitude, low-frequency disturbances, 4T1068
FARRIS, TN: Fast Fourier transform of spectral BEs for transient heat conduction, 4A1210
- Finite element model comparison of ball and roller bullgears, 8A800
- Spectral analysis of 2D contact problems, 10A984
FARROW, CA: Multiple scattering of ultrasound in suspensions, 2A221
FARROW, CB: Tensile capacity of anchors with partial or overlapping failure surfaces: Evaluation of existing formulas on an LRFD basis, 5A724
FARROW, DE: Numerical model of the hydrodynamics of the thermal bar, 4A1174
FARROW, IR: Fatigue of composite materials under aircraft service loading, 8A584
FARSA, J: Differential quadrature and Rayleigh-Ritz methods to determine the fundamental frequencies of simply supported rectangular plates with linearly varying thickness, 7A154
FARUQUE, MO: Creep modeling of rock salts for geoenvironmental application, 1A769
FASEL, H: Direct numerical simulation of controlled transition in a flat-plate boundary layer, 2A942
FASOULAS, S: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024
FASSO, F: Hamiltonian perturbation theory on a manifold, 1A108
FASSOIS, SD: On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, 11A343
- On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, 11A342
FATANI, MN: Soil modification by cement kiln dust, 3A489
FATOUH, M: HCFC22-based vapor absorption refrigeration system - Part I: Parametric studies, 10A1324
- HCFC22-based vapor absorption refrigeration systems - Part II: Influence of component effectiveness, 11A1230
- HCFC22-based absorption cooling systems - Part III: Effects of different absorber and condenser temperatures, 12A1267
FATSIS, A: Evaluation of an Euler code with non-reflecting boundary conditions for the analysis of 3D flow in compressors, 9A1245
FATTAL, S: Universal model for studying the performance of Carnot-like engines at maximum power conditions, 8A1060
FATTORINI, HO: Optimal control problems with state constraints for semilinear distributed-parameter systems, 6T288
FAULKNER, D: Frame tripping in ring stiffened externally pressurized cylinders, 7A632
- Damage estimate for plating of ships and platforms under repeated impacts, 9A280
FAULKNER, MG: Segmental approach for large 3D rod deformations, 6A466
- Multiple 3D equilibrium solutions for cantilever beams loaded by dead tip and uniform distributed loads, 11A109
FAURE, F: Development and experimental validation of the deep hole method for residual stress measurement, 11A434
FAUST, G: Exploration of Chaos, 4R3
FAUTRELLE, Y: Measurement of mass transfer across a moving mercury-electrolyte interface by an electrochemical method, 3A1201
FAVIER, D: Towards modeling of deformable ferromagnets and ferroelectrics, 3A565
- Finite element simulation of 3D mechanical behavior of NiTi shape memory alloys, 3A15
- Aerodynamic interaction study of the propeller-wing under different flow configurations, 7A1178
FAVRE, R: Ultrasonic measurements and static load tests in bridge evaluation, 6A695
FAWCETT, JA: Simple coupled wedge mode propagation method, 1A315
- Matched-field source localization in a range-dependent environment, 6A265
FAWCETT, JN: Coupled torsional-lateral-axial vibration analysis of a geared shaft system using substructure synthesis, 7A202
FAY, B: Determination of the absolute value of ultrasonic power by means of thermoacoustic sensors, 11A261
FAYEULLE, S: Wear behavior of triode-sputtered MoS_2 coatings in dry sliding contact with steel and ceramics, 12A919
FAZLUR RAHMAN, MHR: Feedback linearization of a heat exchanger, 3A384
FEARN, DR: Destabilizing nature of differential rotation, 11T984
FEDA, J: Axioms in the structural mechanics of soils, 11A561
FEDELINSKI, P: Single-region time domain BEM for dynamic crack problems, 2A49
- Dynamic effects of breaking stiffeners in cracked structures, 4A747
- Laplace transform DBEM for mixed-mode dynamic crack analysis, 10A830
- Boundary element formulations for the dynamic analysis of cracked structures, 11A695
FEDER, SM: Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443
FEDIGAN, SJ: Robustness of adaptive unbalance control of rotors with magnetic bearings, 6A330
FEDOROV, AV: Pressure fluctuation characteristics in supersonic wind tunnel and their effect on boundary layer transition, 10T1090
FEDOROVICH, YD: Enhancement of heat transfer in steam generating tubes, 1A1280
FEDOTOV, HB: Influence of vibration on the wave pattern in a ring resonator, 10A91
FEENSTRA, PA: Fluidelastic instability in a tube array subjected to two-phase R-11 cross-flow, 3A226
FEENSTRA, PH: Composite plasticity model for concrete, 5A464
FEHLER, MC: Single-station spectral discrimination using coda waves, 3A1280
FEHR, M: Exergy carry-over index for a utility system, 2A1077
FEI , BINJUN: Probability damage tolerance evaluation method for multi-cracked structure, 7A801
FEI, CONGYU: Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), 4A108
FEI, PUSHENG: Parallel algorithm for constrained optimization problems, 4A354
FEI, TONG: Elimination of numerical dispersion in finite-difference modeling and migration by flux-corrected transport, 3A1289
FEI, ZHANG: Numerical simulation of nonlinear schrodinger systems: A new conservative scheme, 1A236
FEIGIN, V: Identification of static strength criteria, 10A766
FEIGL, K: Numerical study of the flow of a low-density-polyethylene melt in a planar contraction and comparison to experiments, 6A907
FEILLARD, P: High temperature behavior of long fiber reinforced titanium under transverse loading, 6A1172
FEINGOLD, M: Chaotic advection in 3D unsteady incompressible laminar flow, 12A110
FEIREISL, E: Regularization and symmetry breaking for the thermistor problem with the Thomson effect, 2A1150
FEISTAUER, M: Asymptotic and a posteriori error estimates for BE solutions of hypersingular integral equations, 10A54
FEIT, D: Vibration damping of large structures induced by attached small resonant structures, 6A120
- Scattering of sound by a fluid-loaded plate with a distributed mass inhomogeneity, 10A358
FEKLISTOV, VN: Application of foam insulation for remediation of degraded permafrost, 11A567
FEKPE, ESK: Operating efficiency of heavy vehicles, 7T403
FEL'DMAN, DS: Limiting characteristics of a resonance machine with an electromagnetic vibration exciter, 6A515
FELBECK, DK: Strength and Fracture of Engineering Solids, Second Edition, 6R17
- Strength and Fracture of Engineering Solids, Second Edition, 8N21
FELDKAMP, JR: Coefficient of permeability from AC electroosmosis experiments - II: Results, 10A665
- Coefficient of permeability from AC electroosmosis experiments - I: Theory, 10A664
FELDMAN, M: Parameter identification of nonlinear ocean mooring systems using the Hilbert transform, 8A149
FELICI, HM: Numerical analysis of 3D unsteady hot streak migration and shock interaction in a turbine stage, 11A1074
FELICI, T: Optimal time re-entry of vehicles by asymptotic matching, 6A318
FELICI, TP: Surface stability of liquid conductors in electromagnetic shaping, 4A1070
FELIPPA, GA: Parametric unification of matrix structural analysis: Classical formulation and d-connected mixed elements, 5A6
FELIU, S: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769
FELKER, FC: Shear-thickening and flow-induced structure in a system of DMSO containing waxy maize starch, 4A889
FELLENSTEIN, JA: New tribological test for candidate brush seal materials evaluation, 6T836
FELSEN, LB: Mid-to-high frequency acoustic scattering and radiation from fluid-loaded structures: Asymptotic techniques, 2A220

FELTON, PG: Fluorescent behavior of ketones at high temperatures, 12A1204
FENANDER, A: Modal synthesis when modeling damping by use of fractional derivatives, 10A239
FENDELL, F: Unsteady planar diffusion flames: Ignition, travel, burnout, 5A1214
- Diffusion-flame burning of fuel-vapor pockets in oxidizer for general Lewis numbers, 9A1310
FENDELL, FE: Nonintrusive stabilization of a conical detonation wave for supersonic combustion, 5A1235
FENG , ENMIN: Block pivot methods for solving frictional contact problems, 3AR36
FENG , JIANJUN: Three dimensional convective-diffusive model for the transportation of macro-molecules and water across the arterial wall, 3A1405
FENG , TAIHUA: Numerical solution of inverse eigenvalue problem in dynamics model updating (Chinese), 9T64
FENG, AK: Stress failure criterion for laminated composites, 12A759
FENG, DEYI: Assessment of potential strength of an induced earthquake by using fuzzy multifactorial evaluation, 3A1334
FENG, GANG: Lifting behavior of multi-thread screw ship unloader (Chinese), 8A1033
FENG, J: Unsteady motion of solid bodies in creeping flows, 4A949
- Wall effects on the flow of viscoelastic fluids around a circular cylinder, 4A969
- Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, 10A1119
- Motion of a solid sphere suspended by a Newtonian or viscoelastic jet, 11A438
FENG, JIANJUN: Stokes flow of a rotating sphere around the axis of a circular orifice or a circular disk, 10A1070
FENG, JIN: Time domain procedure of FE-BE-IBE coupling for seismic interaction of arch dams and canyons, 5A1334
FENG, JIN-ZHANG: Unified time-marching procedure for compressible and incompressible flows, 6A915
FENG, JINHAI: Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), 12A687
FENG, JQ: Computational analysis of electrohydrodynamics of a leaky dielectric drop in an electric field, 9A1207
FENG, K: Modified ARTMAP network, with applications to scheduling of a robot-vision-tracking system, 9A461
FENG, L: Experimental studies of the acoustic properties of a finite elastic pipe filled with water-air, 7A320
FENG, MQ: Vibration control of tall buildings using mega sub-configuration, 2A739
FENG, S: Parameters in bridge restrainer design for seismic retrofit, 6A1283
FENG, WW: Evaluation of first ply failure in a 3D load space, 1A539
FENG, XI-QIAO: Micromechanical modeling of tensile response of elastic-brittle materials, 1A449
- Analyses of damage localization at crack tip in a brittle damaged material, 6A645
FENG, XIQIAO: Micromechanical modeling of strain softening in microcrack-weakened quasi-brittle materials, 1A831
FENG, YT: Block conjugate gradient method applied to linear systems with multiple right-hand sides, 4A80
- New criterion for determination of initial loading parameter in arc-length methods, 4A587
- Modified Janssen theory for flexible circular bins, 10A957
- Iterative solution of coupled FE-BE discretizations for plate-foundation interaction problems, 11A525
- Conjugate gradient methods for solving the smallest eigenpair of large symmetric eigenvalue problems, 12A73
FENG, YUANSHENG: Reliability analysis method for structural stiffness, 6A709
- Improved stratified sampling Monte Carlo method to analyze reliability of structural systems, 10A886
FENG, ZC: Numerical simulation of the dynamics of acoustically levitated drops, 10A1125
FENG, ZHI-GANG: Unsteady heat transfer from a sphere at small Peclet numbers, 9A1264
FENG, ZHIRONG: p-version least squares FE formulation for 3D, isothermal, incompressible, non-Newtonian fluid flow, 2A896
FENG, ZHONGGANG: Effect of the magnetic field on the pulsatile flow through a rigid tube, 1A1055
FENG, ZQ: Rigid-plastic implicit *integration* scheme for analysis of metal forming, 8A552
FENNEMORE, GG: Unsaturated water flow around obstructions simulated by 2D Rankine bodies, 4A1303
FENNER, RT: Contact mechanics analysis of frictional slip of inclusions embedded in dissimilar matrices using the BEM, 3A46
- Boundary element analysis of heat conduction and thermal stresses in contact problems using independent meshing, 9A1267
- Optimum shape design and positioning of features using the boundary integral equation method, 12AR24
FENNO JR, CC: Forward motion effects on jet noise, panel vibration, and radiation, 11A245
FENTON, M: Flame curvature statistics in axisymmetric turbulent jet flames, 5A1218
FENTON, RG: Accurate analysis of free vibration of open circular cylindrical shells, 6A141
FENWICK, D: Three-phase flow and gravity drainage in porous media, 4A1311
FERBER, MK: Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA, 7N12
- Effect of cyclic loading on the creep performance of silicon nitride, 10A1394
FERDEGHINI, EM: Assessment of normal testis growth by quantitative texture analysis of 2D echo images, 1T1458
FERGEN, RE: Probabilistic analysis of ocean outfall mixing zones, 10T1453
FERGUSON, D: Data analysis and model comparison for solar array module plasma interactions experiment, 12A862
FERGUSON, DC: Low-frequency waves in the plasma environment around the shuttle, 10A949
FERGUSON, FT: Thermovibrational convection in a vertical cylinder, 12A1215
FERGUSON, GL: Replica model scaling for high strain-rate events, 1A215
- Thermo-elastic FE fatigue failure analysis, 4A17
FERGUSON, JF: SH wave propagation by discrete wavenumber boundary integral modeling in transversely isotropic medium, 11A1354
FERGUSON, RE: Inviscid dynamics of 2D shear layers, 9A1168
FERGUSON, SJ: Finite element stress analysis of a hybrid fracture fixation plate, 10A1487
FERGUSON, WJ: Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part II: The anisotropic model, 3A1269
- Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part I: The isotropic model, 3A1268
- Control volume FEM of mechano-sorptive creep in timber, 7A1269
FERHI, A: Behavior of asymmetric building systems under a monotonic load - II, 6A158
- Behavior of asymmetric building systems under a monotonic load - I, 6A157
FERIANI, A: Incremental elastic-plastic FE solver in a workstation cluster environment - Part I: Formulations and parallel processing, 12A527
- Formation of viscous damping matrices for the dynamic analysis of MDOF systems, 12A207
- Incremental elastic-plastic FE solver in a workstation cluster environment - Part II: Performance of a first implementation, 12A528
FERM, L: Non-reflecting boundary conditions for the steady Euler equations, 5T877
FERMER, M: Vertical interaction between train and track with soft and stiff railpads: Full-scale experiments and theory, 2A134
FERNANDES, AC: Second-order slow drift force spectrum, 11A218
FERNANDES, EA: Propagation of axisymmetric transverse waves along a thin-walled cylindrical pipe, 1A189
FERNANDES, JLM: Fast evaluation of thermodynamic properties of superheated steam: A cubic equation of state, 3A1014
FERNANDES, PJL: Effects of loading variables on fatigue crack growth in liquid metal environments, 4A665
FERNANDEZ DE LA MORA, J: Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, 6A897
FERNANDEZ, E: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
FERNANDEZ, F: Shear strength of reinforced geosynthetic clay liner, 9A660
FERNANDEZ, GL: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
FERNANDEZ, ML: Second-order difference systems in unbounded domains: Existence conditions and construction of exact and approximate bounded solutions, 1A43
FERNANDEZ, VM: Vortex intensification and collapse of the Lissajous-elliptic ring: Single- and multi-filament Biot-Savart simulations and visiometrics, 2A873
FERNANDEZ-BERDAGUER, EM: Solution of an inverse scattering problem in 1D acoustic media, 8A258
- Iterative procedure for estimation of variable coefficients in a hyperbolic system, 9A126
FERNANDEZ-FERIA, R: Solution breakdown in a family of self-similar nearly inviscid axisymmetric vortices, 6A897
FERNANDEZ-PELLO, AC: Forced forward smolder combustion, 7A1307
- Forward smolder of polyurethane foam in a forced air flow, 12A1301
FERNANDO, GF: Intensity-based optical fiber sensor for fatigue damage detection in advanced fiber-reinforced composites, 7A806
FERNANDO, HJS: Onset of stratification in the mixed layer subjected to a stabilizing buoyancy flux, 6A993
- Flows generated by the impingement of a jet on a rotating surface - Part I: Basic flow patterns, 9A1165
- Flows generated by the impingement of a jet on a rotating surface - Part II: Detailed flow structure and analysis, 9A1166
- Generation of nearly isotropic turbulence using two oscillating grids, 9A1181
FERNANDO, NSM: Elastic analysis of buried structures subject to 3D surface loading, 11A767
FERNEY, GD: Influence of pinned joints on damping and dynamic behavior of a truss, 4A190
FERNHOLZ, HH: Incompressible zero-pressure-gradient turbulent boundary layer: An assessment of the data, 11A945
FERNYHOUGH, M: Edge waves along periodic coastlines - Part 2, 2A174
- Scattering by a periodic array of rectangular blocks, 6A196
FERRAND, P: Numerical simulations of a 3D nozzle, from inviscid to turbulent flows, 6A932
- New mixed Van Leer flux splitting for transonic viscous flow, 6T920
FERRANDIZ, JM: Behavior of the SMF method for the numerical integration of satellite orbits, 10A325
FERRANDO, F: Axial force test and modeling of the V-belt continuously variable transmission for mopeds, 12A949
FERRARA, F: Atmospheric re-entry control for low lift-drag vehicles, 6T223
- Attitude control for low lift-drag re-entry vehicles, 12T381
FERRARESI, C: Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, 4A409
FERRARI, C: Recalling the Vth Volta Congress: High speeds in aviation, 6T1016
FERRARI, RF: Finite Elements for Electrical Engineers, Third Edition, 8N2
FERRARINI, L: Characteristic line based method to build finite-dimensional models of heat exchangers, 11A339
FERRARIS, G: Frequencies and modes of rotating flexible bladed disc-shaft assemblies: A global cyclic symmetry approach, 10A231
FERRAZ-MELLO, S: High-eccentricity libration theory revisted, 3A237
FERREIRA, JAM: Effects of surface treatments on the fatigue of notched bend specimens, 8A589
FERREIRA, JJP: Integrating information and material flow executable models, an SDL-based information flow modeling tool, 10A504
FERREIRA, JM: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304
FERREIRA, PAV: Solving multiple-objective problems in the objective space, 12T359
FERREOL, B: Lattice-Boltzmann simulations of flow through Fontainebleau sandstone, 4A1307
FERRERES, G: Parametric robustness evaluation of a H_{∞} missile autopilot, 11A315
FERRETTI, G: Simulating discontinuous phenomena affecting robot motion, 7A436
FERRI, AA: Model reduction of Coulomb friction damped systems using singular perturbation theory, 9A979
- Probabilistic component mode synthesis of nondeterministic substructures, 9A898
FERRITTO, JM: Seismic hazard analysis: Computer validation, 4A1338
- Repeatability of microseism measurements in Port Hueneme case study, 11A1395
FERTIS, DG: Advanced Mechanics of Structures, 12R13
- Vibration of beams and frames by using dynamically equivalent systems, 3A124
FERZIGER, JH: Computational Methods for Fluid Dynamics, 11R39
- Entrainment in a shear-free turbulent mixing layer, 9A1189
FESSL, T: Advanced gas engine cogeneration technology for special applications, 5A1267
FESSLER, H: Effects of adjacent braces on the static strength of a corner YT joint, 9A942
- Static strength of tubular T and Y joints under combined bending and axial loading, 9A947
- Elastic-plastic strain distributions at fillet welds, 11A448
- Stresses in a spinless drive for aero-engines, 11A129
FETEIH, S: FB neurocontroller based on dynamic inversion, 6A341
FETHERSTON, RP: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
FETT, T: Analysis of the residual stress intensity factor of Vickers indentation cracks, 2A617
- Application of the weight function and boundary collocation method to the calculation of initial phase transformation zones, 4A758
- Determination of bridging stresses and R-curves from load-displacement curves, 4A759
- Calculation of stress fields near inclusions by use of the fracture mechanics weight function, 5A405
- Influence of bridging stresses on specimen compliances, 7A862
- Failure of brittle materials near stress singularities, 8A613
FEUERBACH, JW: Measures of paraspinal muscle performance do not predict initial trunk kinematics after tripping, 10A1472
FEUILLADE, C: Scattering from collective modes of air bubbles in water and the physical mechanism of superresonances, 1A330
- Low-frequency acoustic scattering model for small schools of fish, 6A243
- Attenuation and dispersion of sound in water containing multiply interacting air bubbles, 12A278
FEY, RHB: Determination of global stability of steady-state solutions of a beam system with discontinuous support using manifolds, 8A81
- Long-term structural dynamics of mechanical systems with local nonlinearities, 10A121
- Periodic solutions of a multi-dof beam system with impact, 11A110
FFOWCS WILLIAMS, JE: Aeroacoustics, 8A245
FIALA, P: Spatial organization of the haversian bone in man, 6A1335
FIALKO, SY: Problem of carrying capacity of thin-walled prismatic folded systems, 9A576
FICHMAN, M: Effect of centerline particle concentration in a wave tube, 7A1087
FICKIE, KD: Fast numerical method for isothermal resin transfer mold filling, 10A593
FIDDES, SP: Comparison of a cell-center method and a cell-vertex method for the solution of the 2D unsteady Euler equations on a moving grid, 2A1038
FIDDY, MA: Dual twin image effect from a waveguide hologram, 1A847
FIEBIG, M: Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, 1A1174
- Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, 1A1173
- Experimental thermal and fluid science, 4A1240
- Embedded vortices in internal flow: Heat transfer and pressure loss enhancement, 5A1139
- Determination of the thermal diffusivity of toluene and methanol using laser-induced thermal grating (German), 6A1130
- Influence of heat conduction on determination of heat transfer coefficient by liquid crystal thermography, 8A1119
- Heat transfer enhancement by longitudinal vortices in a fin-tube heat exchanger element with flat tubes, 8T1199
FIECHTNER, GJ: Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, 11A1301
FIEDLER, C: Calculation of boundary stresses with the Somigliana stress identity, 2A48
- Hybrid BEM in elastodynamics, 8T64
FIELD, EH: Comparison and test of various site-response estimation techniques, including three that are not reference-site dependent, 2A1240
FIELDER, WT: Fractal behavior of an asymmetric rigid block overturning due to harmonic motion of a tilted foundation, 9A156
- Transient motion and overturning of a rocking block on a seesawing foundation, 9T684
FIELDS, JC: Particle drag coefficient in solid rocket plumes, 1T1002
FIENKENG, MN: Influence of rheological properties of bitumen emulsions on the performance of surface dressing systems, 1A962
FIERRO, RD: Accuracy of TSVD solutions computed from rank-revealing decompositions, 1A65
FIERTAK, M: Application of dewaterers and sorbents in impregnation of building materials, 9T940
FIERZ, C: Snow mechanics and avalanche formation: Field experiments on the dynamic response of the snow cover, 3A1395
FIFE, PC: Location of defects in stationary solutions of the Ginzburg-Landau equation in R^2, 7T686
FIGLIOLA, RS: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11, 3N42
FIGOVSKY, O: Stress-strain state of polymer chemical-resistant coatings during curing and under operating conditions, 1A577
- Identification of static strength criteria, 10A766
FIGUEIREDO, AR: Control-volume based FEM for 3D incompressible turbulent fluid flow, heat transfer, and related phenomena, 2A12
- Analysis of the performances of heat exchangers used in hot-water stores, 11A1215
FIGUEIREDO, J: Surface polishing with flexible link manipulators, 8A364
- Elastic-link manipulators: Modeling, simulation, and experiments, 10A482
FIGUEROA, JL: Liquefaction under random loading: Unit energy approach, 3A575
FIJISHIRO, I: Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, 5A1109
FIL'SHTINSKII, LA: Extension of a layer weakened by tunnelling cuts, 8A612

FILATOVS, GJ: Packing characterization of granular composite media in 2Ds, 5T1295
FILIATRAULT, A: Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, 3A782
FILIP, P: Effect of the annular arrangement on the steady Poiseuille flow, 11A956
FILIPCZYNSKI, I: Measurement technique of shock wave pulses at extremely high pressures, 9A394
FILIPCZYNSKI, L: Temperature increase in a two-layer obstetric model of tissues in the case of linear and nonlinear propagation of a continuous ultrasonic wave, 1A353
FILIPKOWSKI, J: Dynamic-stiffness matrix for in-plane motion in a layered depth-dependent randomly inhomogeneous semi-infinite medium, 9A264
FILIPOVA, AV: Methods for developing synthetic sutures for surgery, 6A1354
FILIPOVIC, J: Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, 4A1193
- Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, 4A1192
- Rewetting temperatures and velocity in a quenching experiment, 8A1154
FILIPOWICZ, K: Study of materials wear resistance (Polish), 6A805
FILIPPOU, FC: Mixed formulation of nonlinear beam FE, 3A528
- New reinforcing steel model with bond-slip, 8A751
- Fiber beam-column model for nonlinear analysis of R-C frames - Part I: Formulation, 12A841
- Fiber beam-column model for nonlinear analysis of R-C frames - Part II: Applications, 12A842
FILIPPOV, GA: Distinguishing features of phase transformation in the surface layer of hardened steel with ($\alpha + \gamma$)-two-phase structure during plastoelastic loading at different rates, 9A983
FILIPPOV, VV: Stability of steady-state rotor motions in elastic bearings, 6T90
FILLIPOV, SB: Stability of cylindrical shells joined at an angle under the action of a uniform external pressure, 1A668
FILLO, J: Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - I: Steady problems, 6A1125
- Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - II: Partial differential equations, 6A1126
FILLOD, R: Model reduction by a simplified variant of dynamic condensation, 9A211
- Substructuring by a two-level dynamic condensation method, 12A212
FILLON, M: Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, 5A82
- Comparison between three turbulent models: Application to thermohydrodynamic performances of tilting-pad journal bearings, 8T809
FILO, J: Finite time of stabilization in the 1D problem of non-steady filtration, 10T1408
FILONENKO, LA: Stability of vertical oscillations in the system of electrodynamic-inspension with discrete wheelspan, 9A145
FINCH JR, WW: Dynamic analysis of a ten-story reinforced concrete building using a continuum model, 4A204
- Bond and force transfer of composite material plates bonded to concrete, 9A591
FINCH, RD: Natural net-based monitoring of steel beams, 1A864
FINCHAM, AM: Turbulence, similarity scaling, and vortex geometry in the wake of a towed sphere in a stably stratified fluid, 11A974
FINETTE, S: Angle-time-frequency resolution of the noise field generated by wind-induced breaking waves, 6A230
FINGERSON, LM: Adaptive phase-Doppler system and its applications including particle sizing in submicron and nanometer ranges, 9A1250
FINK IV, SF: Nonintrusive stabilization of a conical detonation wave for supersonic combustion, 5A1235
FINK, BK: Model to predict the through-thickness distribution of heat generation in cross-ply carbon-fiber composites subjected to alternating magnetic fields, 5A1168
FINK, M: Focusing in transmit-receive mode through inhomogeneous media: The time reversal matched filter approach, 1A316
- Decomposition of the time reversal operator: Detection and selective focusing on two scatterers, 9A381
FINKELSTEIN, ND: Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, 8A1050
FINLAY, WH: Development and linear stability of rotating boundary layers, 6A982
FINLEY, PJ: Incompressible zero-pressure-gradient turbulent boundary layer: An assessment of the data, 11A945
FINN, R: Capillary wedges revisited, 7A1065
FINNEY, JD: Reaching conditions for variable structure control with output feedback, 12A367
FINNEY, JM: Extending the fatigue life of multi-layer metal joints, 5A605
FINNO, RJ: Coefficient of permeability from AC electroosmosis experiments - II: Results, 10A665
- Coefficient of permeability from AC electroosmosis experiments - I: Theory, 10A664
- Effect of consolidation on strain localization of soft clays, 11A564
FINNVEDEN, S: Ensemble averaged vibration energy flows in a three-element structure, 4A135
FINOGENKO, IA: Right-hand solutions of the differential equations of dynamics for mechanical systems with sliding friction, 12A875
FIODOROV, VG: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417
FIORAVANTI, A: Thermal investigation of a honing process utilizing polyborosiloxane impregnated with abrasive particles, 8A556
FIRASAT ALI, S: Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, 7T1115
FIRKINS, P: Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, 6A796
FIROOZIAN, R: ER shear characteristics: Volume fraction, shear rate, time response, 12A431
FIRSOV, VP: Dispersed film boiling heat transfer, 1A1240
FISCHER, A: Well-founded selection of materials for improved wear resistance, 12A922
FISCHER, CF: Robust preconditioning of large, sparse, symmetric eigenvalue problems, 6A67
FISCHER, FD: Stress state in a moving rod suddenly elastically fixed at its trailing end, 2A166
- Transformation-induced plasticity (TRIP), 8A426
- Note on calibration of ductile failure damage indicators, 8A632
- Elliptical subsurface cracks under a normal stress and a residual stress field, 8A622
FISCHER, KM: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279
FISCHER, P: Combined integral and FE analysis of broad-band random vibration in structural members, 6A761
FISCHER, T: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
FISCHER, TM: Nonlinear development of disturbances in boundary layers assumed as parallel, 4A1059
FISCHER-CRIPPS, AC: Indentation stress-strain curves for "quasi-ductile" ceramics, 6A399
FISCHMEISTER, HF: FE-simulation of crack paths in the real microstructure of an Al(6061)-SiC composite, 9A816
FISET, M: Effect of lubricant in electrical conductor fretting fatigue, 4A682
FISETTE, P: Minimal dynamic characterization of tree-like multibody systems, 7A90
- Symbolic generation of large multibody system dynamic equations using a new semi-explicit Newton-Euler recursive scheme, 8A75
FISH, J: p-version of FEM for shell analysis, 1A632
- Recent advances in the P-version of the FEM for shells, 4A44
- Multigrid method for periodic heterogeneous media - Part 1: Convergence studies for 1D case, 4A535
- Computer-aided multiscale modeling tools for composite materials and structures, 4A531
- Iterative and direct solvers for interface problems with Lagrange multipliers, 4A34
- Multi-grid method for periodic heterogeneous media - Part 2: Multiscale modeling and quality control in multidimensional case, 4A534
- Unstructured multigrid method for shells, 9A611
FISHER, FD: Introduction of nonproportionality functions in standard plasticity by splitting of the plastic work increment, 1A490
FISHER, J: Cushion form bearings for total knee joint replacement - Part 1: Design, friction, and lubrication, 2A1311
- Cushion form bearings for total knee joint replacement - Part 2: Wear and durability, 2A1312
- Determination of the curvatures and bending strains in open trileaflet heart valves, 2T1313
- Comparative analysis of bone stresses and strains in the Intoss dental implant with and without a flexible internal post, 3T1399
- Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, 6A796
- In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion, 6T1338
- Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374
- Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, 8A1436
- Determination of lubricating film thickness for permeable hydrogel and non-permeable polyurethane layers bonded to a rigid substrate with particular reference to cushion form hip joint replacements, 12A1488
- Influence of loading time and lubricant on the friction of articular cartilage, 12A1447
FISHER, S: Vibrations of the low power atmospheric compensation experiment satellite, 1T405
FISHER, TC: Influence of suspending phase viscosity on the passage of red blood cells through capillary-size micropores, 10A1476
FISHMAN, L: Efficient navigation of parameter landscapes, 1A72
FISSAN, H: Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
FITT, AD: Crack propagation models for rock fracture in a geothermal energy reservoir, 4A625
- Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, 5A887
FITZ-COY, N: Analysis of multiaxis vibration simulators, 3A148
FITZGERALD, RM: Scattering of a scalar wave from a 2D randomly rough Neumann surface, 3A188
FITZPATRICK, KC: Delta wing vortex control via recessed angled spanwise blowing, 1A1101
FITZPATRICK, ME: Measurements of stress intensity factors of an interface crack under mixed mode loading, 11A698
FITZPATRICK, T: Model of blast overpressure injury to the lung, 6A1339
FIX, GJ: Numerical studies of optimal grid construction, 7A1302
FLACK, KA: Advances in 3D turbulent boundary layers with emphasis on the wall-layer regions, 12A1097
FLAGA, A: Wind engineering: Perspective development in systematic approach (Polish), 3A795
- Quasisteady models of wind load on slender structures - Part III: Applications of quasisteady theory in aerodynamics of slender structures, 3A997
- Quasisteady models of wind load on slender structures - Part III: Applications of quasisteady theory in aerodynamics of slender structures, 9A930
FLAGAN, RC: Radial differential mobility analyzer, 2A1209
- Axisymmetric instrument response resulting from mixing effects in accelerated DMA-CPC measurements, 4A1281
FLAHERTY, JE: Modeling and the adaptive solution of reactive vapor infiltration problems, 6A589
- Parallel adaptive hp-refinement techniques for conservation laws, 12A79
FLAMAND, L: Numerical elastoplastic model for rough contact, 5A585
- Dynamic response of planetary trains to mesh parametric excitations, 8A806
FLAMENT, T: Determination of the diffusion coefficients of iron and chromium in Pb-17Li, 1A1310
FLANNERY, M: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373
FLASHNER, H: Optimal maneuver of a flexible arm by space-time FEM, 4T366
- Stability analysis of periodic systems by truncated point mappings, 7A678
FLASKER, J: Applying numerical methods for determining the service life of gears, 2A677
FLATHERS, MB: Experimental and computational investigation of flow in a radial inlet of an industrial pipeline centrifugal compressor, 11A1052
FLAVIGNY, E: Yield surfaces and principle of superposition: Revisit through incrementally nonlinear constitutive relations, 5A437
FLAVIN, JN: Qualitative Estimates for Partial Differential Equations: An Introduction, 5N35
FLAX, AH: Comment on "Vibration and Buckling of Flexible Rotating Beams", 8T129
FLAY, RGJ: Pressure correlations on a rough cone in turbulent shear flow, 4A1077
- Development of a wind tunnel test facility for yacht aerodynamic studies, 5A989
- Lift and drag distributions of yacht sails using wake surveys, 12A1164
FLECK, NA: Cold compaction of powders, 1A1
- Transient creep analysis of ball indentation, 2A385
- Microbuckle initiation in fiber composites: A FE study, 4A478
- Machining of sintered bronze, 4A638
- Role of strain gradients in the grain-size effect for polycrystals, 8A399
- Microbuckle propagation in a unidirectional carbon fiber-epoxy matrix composite, 12A536
FLEETER, S: Flutter stability of a detuned cascade in subsonic compressible flow, 2A961
- Effect of grid irregularity on truncation error for discretizations of Laplace's equation, 2A36
- Solution of steady inviscid subsonic flow by a locally analytic method, 6A919
FLEGANTOV, LA: Temperature stresses near cracks in elastic plate weakened with two holes (Russian), 3A684
FLEMING , J: Conjugate natural convection in a planar thermosyphon with multiple inlets - II: Heat transfer, 3A1035
- Conjugate natural convection in a planar thermosyphon with multiple inlets - I: Velocity and temperature fields, 3A1034
FLEMING, B: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458
FLEMING, HE: Static *in situ* calibration of force plates, 8A1441
FLEMING, JS: Analysis of leakage in a twin screw compressor and its application to performance improvement, 4A1120
FLEMING, SJ: Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, 7T1412
FLETCHER, AJ: Thermal investigation of a honing process utilizing polyborosiloxane impregnated with abrasive particles, 8A556
FLETCHER, CA: Numerical laminar and turbulent fluid flow and heat transfer predictions in tube banks, 3A1020
FLETCHER, CJ: Fatigue cracking of type 304 sheet in pasteurizer water, 4A671
FLETCHER, LS: Contact conductance of selected metal-matrix composites, 1A1259
- Onset of flow reversal and penetration length of natural convective flow between isothermal vertical walls, 3T1045
- Thermal contact conductance of diamond-like films, 6A1118
- Thermal contact conductance of refractory ceramic coatings, 6A1119
- Thermal contact conductance of selected polymeric materials, 10A1290
- Thermal conductivity of graphite-aluminum and graphite-copper composites, 11T1196
FLETCHER, NJ: Propagant phase in reverberant environments, 6A260
FLIK, MI: Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, 3A1166
FLITTER, L: Helicopter flight data feature extraction or component load monitoring, 7A1182
FLODROPS, JP: Asymptotic expression of the forces induced by a streng jet in a crossflow, 2T965
FLOGEL, HH: Evalustion of instationary flow fields using crosscorrelation in image sequences, 7A1197
FLOR, JB: Stable and unstable monopolar vortices in a stratified fluid, 9A1063
FLORA, H: Development and validation of a computer simulation model for diesel fuel injection systems, 10A1385
FLOREA, R: Reduced order model of unsteady flows in turbomachinery, 5A1075
FLORES, FG: New assumed strain triangles for nonlinear shell analysis, 6A482
FLORES, R: Field performance of lead-acid batteries in photovoltaic rural electrification kits, 3A1383
FLOREZ-LOPEZ, J: Simplified model of unilateral damage for RC frames, 6A753
FLORIAN, S: Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface propertics via electrical discharge, 6T789
- Methods of improving the adhesive properties of isotactic polypropylene - III: Modification of surface properties by UV irradiation and phosphorous trichloride, 6A791
FLORYAN, JM: Free convection heat transfer in multiple vertical channels, 1A1187
- Heat conduction through a barrier made of a suspension of disklike particles, 3T1116
FLOWERS, GT: Disk-shaft vibration induced by bearing clearance effects: Analysis and experiment, 10A225
FLUGEL, M: Frequency-wavenumber structure of the tropical ocean-atmosphere system, 4T1341
FLUITMAN, J: Survey on the reactive ion etching of silicon in microtechnology, 10T723
FLYACHOK, VM: Thermoelasticity of multilayer highly anisotropic shells, 7A1289
FLYE, WM: Advantages of air conditioning and supercharging an LM6000 gas turbine inlet, 5A1027
FOALE, S: Transient response of a constrained beam subjected to narrow-brand random excitation, 2T95
FODA, MA: Harmonic components of finite amplitude sound waves reflected at a surface, 9A359
- Nonlinear propagation and distortion of two plane waves interacting at arbitrary angles, 11A239
FODEN, A: Properties of fiber reinforced structural lightweight concrete, 7A941
FOGARASY, AA: Case for a general method of kinematic analysis of plane mechanisms based on equations of constraint, 4A100
FOGDALL, LB: Thermo-optical property degradation of irradiated spacecraft surfaces, 5A757
FOGLI, M: Dynamics of a stochastic oscillator with impacts, 10A74
FOGLIARDI, R: Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance, 10A1477
FOHN, PMB: Snow mechanics and avalanche formation: Field experiments on the dynamic response of the snow cover, 3A1395
FOHR, J-P: Viscous air flow pattern in the Stefan diffusion tube: Application to the mutual diffusion in a porous media, 1A1308
FOK, SC: Simulation investigation on dynamic pressure in glide angle control, 3A358
- Connections in cold-formed thin-walled structures, 11A830
FOKIN, DA: Estimates for critical Mach number under isoperimetric constraints, 4A986
- Problems of hydrofoil design for a given range of angles of attack, 12A1165

FOKKEMA, JT: Removal of surface-related wave phenomena: The marine case, 6A1255
FOKKINK, RJ: Stability of river bifurcations in 1D morphodynamic models, 7T1050
FOLEY, AC: Measurement of tip-clearance flow in a multistage, axial flow compressor, 11A1083
FOLEY, CM: Toward design office moment-rotation curves for end-plate beam-to-column connections, 1A953
FOLIC, R: Three dimensional analysis of tall buildings subjected to earthquake loading, 11T1410
FOLIENTE, GC: Equivalent linearization of generally pinching hysteretic, degrading systems, 12A1401
FOLKARD, AM: Flow generated by the rotation of a horizontal disk in a stratified fluid, 4A953
FOLKMAN, CC: Advanced method for predicting the performance of helicopter propulsion system ejectors, 1A924
FOLKMAN, SL: Influence of pinned joints on damping and dynamic behavior of a truss, 4A190
FOLLIN, GJ: Structure and development of a wing-tip vortex, 10A1207
FOMIN, GM: Problems of strength and aeroelasticity of state-of-the-art propfans, 10A318
FOMIN, N: Visualization of turbulence anisotropy by single exposure speckle photography, 10A1183
FOMIN, SA: Contact melting by a non-isothermal heating surface of arbitary shape, 2A1130
FOMIN, VM: Disturbance growth control in a boundary layer, 10A1134
FOMINYKH, A: Two models of fluid flow and mass transfer at the trailing edge of a gas slug, 2A957
FONADE, C: Numerical study of an unsteady confined jet: Application to crossflow filtration, 9A1167
FOND, C: Extensions of the pseudo tractions technique for friction in cracks, circular cavities and external boundaries: Effect of the interactions on the homogenized stiffness, 8A664
FONDER, GA: Iterative solution method for dynamic response of bridge-vehicles systems, 7A193
FONG , RK: Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, 9A1100
FONG SHIH, C: Ductile crack growth - II: Void nucleation and geometry effects on macroscopic fracture behavior, 4A697
FONG, LI-WEI: Input estimation approach to on-line 2D inverse heat conduction problems, 10A1295
FONG, NT: Hierarchical production policies in stochastic two-machine flowshops with finite buffers, 12T475
FONSECA, F: Designing T-beams for less ductility than required by ACI, 7A951
FONSEKA, MCM: Finite element modeling of shell of revolution with ring beams at joints, 2A111
FONTAINE, AA: Structure of near-wall turbulence downstream of a wall mounted protrusion: An interesting Reynolds stress suppression phenomena, 9A1185
FONTAINE, C: Effect of five prosthetic feet on the gait and loading of the sound limb in dysvascular below-knee amputees, 6A1373
FONTAINE, J: Optical characterization of laser-matter interaction: The welding application, 4T874
FONTAINE, J-P: Flow and transport in a multilayered fluid system - II: Influence of thermal boundary conditions and encapsulant, 11T1150
- Flow and transport in a multilayered fluid system - I: Influence of l- or μ-g environment, 11A1149
FONTAINE, JG: Design methodology approach for flexible grippers, 11A365
FONTAMA, VN: Evaluating convective heat transfer coefficients using neural networks, 11A1160
FONTENEAU, A: Viscous interaction phenomenon in hypersonic wedge flow, 4A1031
FONTIJN, A: Flow-reactor mass-spectrometer investigation of the initiation steps of the $O(^3P)$ atom reaction with benzene, 9A1334
FOONG, KY: Estimation of collector performance parameters from daily system tests, 7A1392
- Intelligent planning aid for the design of progressive dies, 7A723
FOOTE, KG: Coincidence echo statistics, 6A264
FORBES, LK: Progress toward a mining strategy based on mineral leaching with secondary recovery, 5A1342
- Note on withdrawal through a point sink in fluid of finite depth, 11A892
FORBES, SJ: Numerical inversion of axisymmetric interferograms, 12A1207
FORCELLINI, FA: Analysis of the structural static response, eigenvalues and eigenvectors of manipulators with flexible joints and links (Spanish), 10A478
FORD, DA: Impact of second generation single crystal superalloys of foundry technology, 11A220
FORD, GD: Permeability of 3D models of fibrous porous media, 8A871
FORD, RA: Effects of coordinate transformation and differencing schemes on matrix structure and convergence history, 11A42
FORD, RD: Bandwidth limitation effects on low-frequency impulse noise prediction and assessment, 12A302
FORDE, M: Air bottoming cycle: Use of gas turbine waste heat for power generation, 10A1390
FORDE, MC: Soil parameters for estimating the rolling resistance of earthmoving plant on a compacted silty cohesive soil, 2A793
- Integrity assessment of masonry arch bridges using the dynamic stiffness technique, 6A769
- Modal analysis for masonry arch bridge spandrell wall separation identification, 6A160
FOREST, S: Strain localization in single crystals: Bifurcation analysis, effects of boundaries and interfaces, 3A475
FORKEY, JN: Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, 8A1050
FORMAGGIA, L: Unified construction of FE and finite volume discretizations for compressible flows, 5A906
FORNAL , B: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
FORRESTAL, MJ: Penetration into ductile metal targets with ridid spherical-nose rods, 2A167
- Penetration of confined aluminum nitride targets by tungsten long rods at 1.5-4.5 km/s, 9A285
- Penetration of grout and concrete targets with ogive-nose steel projectiles, 10A281
- Split Hopkinson bar technique to evaluate the performance of accelerometers, 12A128
FORSTER, H: Influence of loading time and lubricant on the friction of articular cartilage, 12A1447
FORSYTH, DW: Recording teleseismic earthquakes using ocean-bottom seismographs at mid-ocean ridges, 6A1260
FORSYTH, PA: Robust linear and nonlinear strategies for solution of the transonic Euler equations, 2A902
- Variable spatial and temporal weighting schemes for use in multi-phase compositional problems, 4T1362
FORT, J: Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, 2T894
FORTES, M: Nachtsheim and Swigert method extended to the study of the 2D plane or axisymmetric, nonisothermal, laminar boundary-layer with blowing (French), 11A941
FORTIN, C: Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, 12A984
FORTIN, M: New mixed FEM for computing viscoelastic flows, 3A455
FORTUNA, J: Numeric analysis of sodar echo signals, 9A1368
FORTUNA, L: Neural networks in multidimensional domains, 8A277
- Controller order reduction by using genetic algorithms, 10A429
FORTUNATO, AB: Vertical discretization in tidal flow simulations, 10A1444
FORTUNATO, B: Two-dimensional methodology to predict vertical axis wind turbine performance, 3A1381
FORTUNE, D: Compatibility equations in shell theory, 10A609
FORTUNKO, CM: Resonant transmission of a 3D acoustic sound beam through a solid plate in air: Theory and measurement, 3A250
FORYS, A: Internal and combination resonances in a kinematically excited system of non-prismatic rods, 1A134
FORYS, AS: Internal and combination resonances in a kinematically excited system of non-prismatic rods, 1A134
FOSDICK, R: Alloy separation of a binary mixture in a stressed elastic sphere, 11A431
FOSDICK, RL: Single-phase energy minimizers for materials with nonlocal spatial dependence, 7A489
- Static state of a two-phase solid mixture in a stressed elastic bar, 10A569
- Thermodynamics, stability, and nonlinear oscillations of viscoelastic solids - I: Differential type solids of second grade, 12A505
FOSS , BA: Semi-empirical modeling of nonlinear dynamic systems through identification of operating regimes and local models, 4A337
FOSS, JF: Computer controlled, finite duration "steady" flow facility, 2A969
- Measurement of vorticity in turbulent flows, 2A995
FOSSA, M: Simple model to evaluate direct contact heat transfer and flow characteristics in annular two-phase flow, 1A1035
FOSSEN , TI: Special issue on Ship Control, 9T1212
FOSSEN, TI: Special issue on underwater vehicle control, 9A422
FOSSUM, AF: Experimental determination of probability distributions for parameters of a salem limestone cap plasticity model, 1A709
- Probabilistic creep analysis of underground structures in salt, 8A597
FOSTER JR, WA: Analysis of ignition and flame spreading in solid rocket motor star slots, 4A1259
FOSTER, CG: Technique for biaxial damping measurement, 5A166
FOSTER, CL: Solar-array-induced disturbance of the hubble space telescope pointing system, 1A273
FOSTER, D: Heat transfer within a steel-reinforced porous concrete slab subjected to microwave heating, 3A1117
FOSTER, JE: Near- and far-field plume studies of a one-kilowatt arcjet, 6A1217
FOSTER, SJ: Rotating crack FE model for reinforced concrete structures, 3A706
- Design of nonflexural members with normal and high-strength concretes, 7A932
FOTACHE, CG: Experimental study of ignition in nonpremixed counterflowing hydrogen versus heated air, 7A1317
FOTI, E: Sea ripple formation: The heterogeneous sediment case, 2T861
FOTIU, PA: BEM analysis of grain boundary sliding in polycrystals, 4A530
- Propagation of spherical waves in rate-sensitive elastic-plastic materials, 5A173
- Universal integration algorithm for rate-dependent elastoplasticity, 10A563
- Overall properties of elastic-viscoplastic periodic composites, 11A458
FOTOOHI, K: Nonlinear fault behavior near underground excavations: A BE approach, 8A1371
FOUAD AHMAD, M: Shear center for elastic thin-walled composite beams, 8A478
FOUCAUT, J-M: Take-off threshold velocity of solid particles lying under a turbulent boundary layer, 9A1122
FOUFOULA-GEORGIOU, E: Wavelets in Geophysics - Wavelet Analysis and Its Applications Series, Vol 4, 1N37
FOULADI, K: Viscous flow past a nacelle in proximity to a flat plate, 2T909
FOUMENY, EA: Thermal performance of cyclic regenerators operating under varying inlet temperature conditions, 1A1278
- Elucidation of pressure drop in packed-bed systems, 6A1221
- Bifurcations of incompressible flow through plane symmetric channel expansions, 9A1147
FOUND, MS: Influence of two-stage loading on the longitudinal splitting of unidirectional carbon-epoxy laminates, 8A650
FOUQUE, JP: Spectral analysis of randomly scattered signals using the wavelet transform, 4A243
FOURMENT, L: Optimal design for non-steady-state metal forming processes - I: Shape optimization method, 5A566
- Optimal design for non-steady-state metal forming processes - II: Application of shape optimization in forging, 5A567
- Finite element calculation of thermal coupling between workpiece and tools in forging, 9A693
- Inverse problems in FE simulation of metal forming processes, 11A587
FOURNIER, R: Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, 11A1213
FOUTTER, RR: Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, 4A1254
FOUVRY, S: Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, 12A723
FOWLE, RF: Nose radius oblique tool: Cutting force and built-up edge prediction, 8A554
FOWLER, AJ: Optimal spacing of cylinders in free-stream cross-flow forced convection, 4A1143
FOWLER, DW: Shear strength of reinforced polyester concrete using recycled PET, 1A893
FOX, MD: Supersonic cooling by shock-vortex interaction, 8A211
FOX, MJH: Asymptotic theory for the almost-highest solitary wave, 12A240
FOX-RABINOVICH, GS: Characteristic features of blanking die wear with consideration for the change in composition, structure and properties of contact surfaces, 4A831
FRACCAROLLO, L: Experimental and numerical assessment of the shallow water model for 2D dam-break type problems, 7T1045
FRACKOWIAK, JE: Positron annihilation study of the ageing effects in the Cu-Zn-Sn parent phase, 1A1297
FRADETTE, L: Determination of heat transfer coefficient between PVC and steel in vacuum extrusion calibrators, 6A1113
FRAGULIS, GF: Generalized Cayley-Hamilton theorem for polynomial matrices with arbitrary degree, 5T297
FRAIDL, GK: Optical research engines: Tools in gasoline engine development, 4A1266
FRALICK, GC: Use of drag probe in supersonic flow, 6T933
FRANCA, AS: Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part I: Theoretical considerations, 12A1222
- Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part II: Validation and applications, 12A1223
FRANCA, GAC: Turbulent incompressible flow within a channel with transpiration - Solution of the coupled problem porous wall: Main flow, 10A1145
FRANCESCHINI, F: Optimization issues in the calibration of a multicomponent robotic dynamometer, 7A458
FRANCHEK, MA: Adaptive passive vibration control, 7A393
- Selecting the performance weights for the μ and H_∞ synthesis methods for SISO regulating systems, 9A414
FRANCHI, A: Incremental elastic-plastic FE solver in a workstation cluster environment - Part I: Formulations and parallel processing, 12A527
FRANCHI, CG: Weak-weak formulation for large displacements beam statics: A finite volumes approximation, 7A603
FRANCIOSI, C: Dynamic behavior of slender beams with elastic ends carrying a concentrated mass, 5A117
- Optimized Rayleigh method and *Mathematica* in vibrations and buckling problems, 10A202
FRANCIS, JT: Prediction of acoustic vibration in steam generation and heat exchanger tube banks, 10A368
FRANCIS, MS: X-31 aircraft: Advances in aircraft agility and performance, 11A1031
FRANCIS, ND: Jet impingement drying of a moist porous solid, 8A1205
FRANCO, JM: Adaptive two-step methods for semidiscretized wave equations, 4A54
- Rheology and processing of salad dressing emulsions, 5A867
FRANCOIS, D: In situ study of short-beam shear tests for composite materials, 7A596
- Viscoplastic analysis of adhesive joints, 9A1034
FRANCOIS, MX: Liquid nitrogen boiling around a temperature controlled heated wire, 8T1126
FRANGOS, C: Open loop strategies for the control of a disk rolling on a horizontal plane, 4A362
FRANK, CB: Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363
FRANK, HM: Grid fin aerodynamics for missile applications in subsonic flow, 7A1174
FRANK, PM: Decentralized fuzzy control of multivariable systems by active decomposition of control laws, 2T279
- H_∞ control via output feedback for state delayed systems, 11A280
FRANK, S: Evaluation of an improved hybrid six-flux and zone model for radiative transfer in rectangular enclosures, 2A1133
FRANK, T: Clamping the small intestine during surgery: Predicted and measured sealing forces, 2T1301
- Modular microfluid system with an integrated micromixer, 10T465
FRANKE, RP: Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, 6A1317
FRANKEL, A: Simulating strong motions of large earthquakes using recordings of small earthquakes: The Loma Prieta mainshock as a test case, 2A1253
FRANKEL, JI: Implicit solution method for a cumulative variable formulation to radiative-conductive transport, 1T1272
- Chebyshev series solution for radiative transport in a medium with a linearly anisotropic scattering phase function, 3A1130
- Direct least-square solutions to integral equations containing discrete data, 6T1135
- Constraining inverse Stefan design problems, 12A1242
FRANKEL, ML: Finite-dimensional model of thermal instability, 2A1096
FRANKEL, SH: Assessment of turbulent combustion submodels using the linear eddy model, 8A1252
FRANKENA, JF: Stormer-Cowell: Straight, summed, and split: An overview, 4A67
FRANKLE, M: Stress singularities in a bimaterial joint with inhomogeneous temperature distribution, 9A489
FRANSSEN, J-M: Simple model for the fire resistance of axially loaded members: Comparison with experimental results, 11A769
FRANSSEN, JM: Numerical simulation of a full scale fire test on a loaded steel framework, 5A720
FRANTZ, B: Experimental investigation of natural convection heat transfer in volumetrically-heated spherical segments, 8A1079
FRANTZISKIS, GN: Dissipated energy as a function of material microstructure: Towards optimum fracture toughness, 10A764
FRANTZISKONIS, G: Scale dependent constitutive relations: Information from wavelet analysis and application to localization problems, 4A3
FRANZEN, RR: Penetration of confined aluminum nitride targets by tungsten long rods at 1.5-4.5 km/s, 9A285
FRASER, KF: Empirical model for natural convection heat exchangers in SDHW systems, 1A1421
FRASER, WB: Transient solutions of the ring-spinning balloon equations, 12A125
FRASER-ANDREWS, G: Shooting method for the numerical solution of optimal control problems with bounded state variables, 11A287
FRASER-SMITH, AC: VLF wave experiments in space using a modulated electron beam, 1A277
FRASSINE, R: Viscoelastic effects on the interlaminar fracture behavior of thermoplastic matrix composites - I: Rate and temperature dependence in unidirectional PEI-carbon-fiber laminates, 1A786
FRASUNYAK, VP: Magnetic susceptibility of HgTe(Mn,Fe,Cr), 6T519
FRAYCE, D: Dual-reciprocity BE approach to 3D transient heat conduction as applied to materials processing, 8A1173

FRAYNE, R: MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, 8T1438
FRAZER, LN: Acoustic lance: New *in situ* seafloor velocity profiles, 6A263
FREDERICK JR, RA: Investigation of microwave attenuation measurements in a laboratory-scale rocket motor plume, 5T250
- Predicting and analyzing X-rays to measure propellant crack propagation speed, 8A686
- Propellant design relationships for throttled gas generators, 11A1306
- Laboratory-scale hybrid rocket motor uncertainty analysis, 11A1310
FREDERICKSON, C: Sound field within a rigid porous layer, 1A320
FREDERIKSEN, PS: Single-layer plate theories applied to the flexural vibration of completely free thick laminates, 4A193
FREDERKING, RMW: Review of sea ice density, 8A1403
FREDERKING, THK: Influence of heat leak location on performance of cryogenic liquefier: Heuristic rules for troubleshooting by an expert system, 2A1140
FREEBERG, P: Effect of ribbets on sails, 4A1105
FREED, AD: Renewal theory of inelasticity, 1A497
FREEDMAN, A: Cause of anomalous behavior of the A_0 leaky Lamb mode, 10T305
- Effects of fluid-loading on Lamb mode spectra, 12A261
FREEMAN, JS: Advanced Automotive Technologies, DSC-Vol 56/DE-Vol 86 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N8
FREEMAN, MAR: Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, 1A1472
- Stress and strain distribution within the intact femur: Compression or bending, 7A1407
FREEMAN, R: Torque redistribution and time regulation methods for actuator saturation avoidance of fault-tolerant parallel robots, 4A396
FREEMAN, RA: Inverse optimality in robust stabilization, 12T340
FREEMAN, TL: Parallel globally adaptive algorithms for multidimensional integration, 6A64
FREEN, PD: Development of the 2400G stationary gas engines, 5A1225
FREESE, CE: Viscohyperelastic FE model for rubber, 4A476
FREGLY, BJ: State-space analysis of mechanical energy generation, absorption, and transfer during pedaling, 6A1382
FREGOLENT, A: Regularization techniques for dynamic model updating using input residual, 9A69
FREIDBERG, JP: Theory of thermal hydraulic quenchback, 4A1146
- Theory of low Mach number compressible flow in a channel, 11A203
FREIGEIT, MR: Approach to the solution of dynamic problems for laminated electroelastic and anisotropic media, 7A688
FREILIKHER, V: Reflection of waves from a strong scatterer buried in a random medium, 10A259
- Reflection of waves from a strong scatterer buried in a random medium, 11A174
FREITAS, C: High-Speed Jet Flows - 1995 ASME/JSME Fluids Eng Conf, 2N40
FREITAS, CJ: Perspective: Selected benchmarks from commercial CFD codes, 1A77
FREITAS, JAT: Mixed-hybrid FEM based on orthogonal functions, 10A33
FREITAS, P: Stability of stationary solutions for a scalar non-local reaction-diffusion equation, 3A1198
FRELAT, J: Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, 4A466
FREMAUX, CM: Estimation of the moment coefficients for dynamically scaled, free-spinning wind-tunnel models, 5T1008
FREMOND, M: Damage, gradient of damage and principle of virtual power, 6A632
FRENCH, B: Development and validation of a computer simulation model for diesel fuel injection systems, 10A1385
FRENCH, DA: Continuous space-time FEM for the wave equation, 9A52
- Computation of large shear deformations of a thermoplastic material, 9A1291
FRENCH, DD: Flight testing a general aviation head-up display, 7T1172
FRENCH, JC: Green function discretization for numerical solution of the Helmholtz equation, 4A329
FRENCH, LC: On-orbit temperature distribution of a submillimeter-telescope primary-reflector panel, 5A750
FRENCH, M: Aeroelastic model design using parameter identification, 7A296
FRENE, J: Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, 5A82
- EHD analysis, including structural inertia effects and a mass-conserving cavitation model, 5A1097
- Comparison between three turbulent models: Application to thermohydrodynamic performances of tilting-pad journal bearings, 8T309
- Cavitation in dynamically loaded journal bearings using mobility method, 12A1189
FRENKLACH, M: Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling, 9A1328
FRENZEN, CL: Bi-orthogonality relationships involving porous media, 1A1374
FRENZEN, P: Further note "On the magnitude and apparent range of variation of the von Karman constant", 3T970
FRESHWATER, IJ: Simplified theories of flat rolling - II: Comparison of calculated and experimental results, 8A546
- Simplified theories of flat rolling - I: The calculation of roll pressure, roll force, and roll torque, 8A545
FREUND, JB: Calculation of the radiated sound field using an open Kirchhoff surface, 10A373
FREUND, NO: High performance journal bearing with controlled elastic deflection, 5A1099
FREW, D: Influence of boundary-layer transition on measured incipient separation angles, 2A943
FREW, DJ: Penetration of grout and concrete targets with ogive-nose steel projectiles, 10A281
FREY, F: Analyse Des Structures Et Milieux Continus: Mecanique des structures (French), 1R12
- Computational aspects of vector-like parametrization of 3D finite rotations, 4A546
FREY, MR: Melnikov processes and noise-induced exits from a well, 8A87
FREY, R: Shock evolution after shaped charge jet impact and its relevance to explosive initiation, 1A217
FREZZOTTI, M: Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces, 11A1444
FRIC, TF: Skewed shear-layer mixing within a duct, 9T1158
FRICKE, J: Dependent scattering effects in latex-sphere suspensions and scattering powders, 3A640
- Transient heat transfer from surfaces of defined roughness into liquid nitrogen, 8A1124
- Radiation-conduction interaction: An investigation on silica aerogels, 10A1303
FRIDEN, J: Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
- Inverse scattering for the homogeneous dispersive anisotropic slab using transient electromagnetic fields, 12A228
FRIDMAN, MM: Selection of an optimization model in optimal design of ribbed cylindrical shells, 6T724
FRIDMAN, VE: Propagation of finite amplitude acoustic waves in the Earth's atmosphere, 11A248
FRIDRICH, J: Reconstruction of blurred orbits under finite resolution, 1A280
FRIDRIKHSON, YV: Pressure effects on the heat transfer of a liquid boiling on a surface with a capillary-porous coating, 1A1250
FRIEBELE, EJ: Fiber optic sensors in concrete structures: A review, 11T348
FRIED, E: Semi-quadratic variational problems for multiphase equilibria, 7T6
- Continua described by a microstructural field, 8A4
- Phase-field theory for solidification based on a general anisotropic sharp-interface theory with interfacial energy and entropy, 8A7
FRIEDMAN, A: Stefan problem for a reaction-diffusion system, 1A1307
FRIEDMAN, MH: Fabrication of vascular replicas from magnetic resonance images, 5A1392
FRIEDMAN, SP: Gas and solute diffusion coefficients in pore networks and its description by a simple capillary model, 3A1254
FRIEDMANN, PP: Vibration reduction in rotorcraft using active control: A comparison of various approaches, 1A415
- Digital adaptive flutter suppression and simulation using approximate transonic aerodynamics, 3A221
FRIEDRICH, C: Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, 4A904
- New ill-posed problems in rheology, 10A1039
FRIEDRICH, CR: Development of the micromilling process for high-aspect-ratio microstructures, 11A616
FRIEDRICH, K: Consolidation of GF-PP commingled yarn composites, 1A734
- Effects of fiber-matrix adhesion on off-axis mechanical response in carbon-fiber-epoxy resin composites, 2A418
- Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, 3A638
- Low-energy Charpy impact of interleaved CF-EP laminates - Part I: Effects of interleaving on stiffness degradation, 4A732
- Recent advances in polymer composites' tribology, 5A777
FRIEHMELT, H: X-31A system identification using single-surface excitation at high angles of attack, 11A1032
FRIEND, AD: Nail solution: Adhesion at interfaces, 11A847
FRIGAARD, IA: Dynamics of spray-formed billets, 2A560
FRISCH, U: Large-scale Kolmogorov flow on the beta-plane and resonant wave interactions, 11A979
FRISCHMUTH, K: Numerical solution of rail-wheel contact problems, 6A77
- Hyperbolic heat conduction with variable relaxation time, 6A2
- Modeling heat transfer in chemical microsensors, 10A1274
FRISON, TW: Nonlinear analysis of environmental distortions of continuous wave signals in the ocean, 6A238
FRISTROM, RM: Flame Structure and Processes, 3R30
FRISWELL, MI: Finite Element Model Updating in Structural Dynamics, 7R1
- Calculation of second and higher order eigenvector derivatives, 1T80
- Model reduction using dynamic and iterated IRS techniques, 2A24
- Quantifying the correlation between measured and computed mode shapes, 10A126
- Geometric parameters for FE model updating of joints and constraints, 11A11
FRITH, WJ: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
- Shear thickening in model suspensions of sterically stabilized particles, 12A1005
FRITSCH, G: Asymptotic analysis of mixing loss, 5A1071
FRITZ, C: Evaluating systems of equations: Towards a formal approach, 7T75
FRODSHAM, CW: Detailed measurements on a modern combustor dump diffuser system, 5A1273
FROES, FH: HIP '96 International Conference on Hot Isostatic Pressing, 6N23
FROHLICH, C: Reexamination of the Bucaramanga, Columbia, earthquake nest, 6A1230
- April 9, 1993 earthquake in south-central Texas: Was it induced by fluid withdrawal?, 6A1271
FROHLICH, J: Pseudospectral Chebychev method for the 2D wave equation with domain stretching and absorbing boundary conditions, 9A112
FROISHTETER, GB: Heat transfer in high-viscosity non-Newtonian fluids in rotating flows, 5A1148
FROLOV, IV: Elastoplastic properties of polycrystals, 6T394
FROLOV, KV: Novel equipment and Technology for tilling the soil, 6A539
- Optimization of rotary effectors of a modular system for performing a set of operations, 10A1027
FROLOVA, OA: Multicriteria simulation and analysis, 12A973
FROMION, V: Link between input-output stability and Lyapunov stability, 11T264
FROMMELT, JM: Modeling of piezoresistively-controlled electromechanical smart material, 3A768
FROSALI, G: Free vibrations of annular plates coupled with fluids, 10A306
FROST, DL: Two-dimensional autocorrelation function analysis of smoked foil patterns, 3A211
FROST, JD: Polymer impregnation to assist undisturbed sampling of cohesionless soils, 8A537
- Uniformity evaluation of cohesionless specimens using digital image analysis, 10A669
FROTA, MN: Wall effects for a sphere falling in a non-Newtonian fluid, 10A1149
FROYEN, L: Fretting wear of mechanically alloyed Al-Fe and Al-Fe-Mn alloys, 11A648
FROYSA, K-E: Renormalization method for nonlinear pulsed sound beams, 12A309
FRULLA, G: Nonlinear analysis of graphite-epoxy wing boxes under pure bending including lateral pressure, 5A994
FRUMAN, DH: Flow structure in a flooded ball bearing, 12T1197
FRUMAN, TE: Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, 10A1352
FRYBA, L: Dynamics of Railway Bridges, 8R4
FRYDMAN, S: Kinematic hardening of soft clay in simple shear, 4A602
- Normalized nondegrading behavior of soft clay under cyclic simple shear loading, 6A527
FRYDRYCHOWICZ, W: Stochastic analysis of the fracture of solids with microcracks, 1A838
- Aspects of a nonlinear convection-diffusion equation arising in heat-induced moisture transport in porous media, 9A1375
FRYER, PA: New pipe and horn modeling, 10A339
FU , QIANG: Interactions of 3D viscous axisymmetric vortex rings with a free surface, 3A893
FU , XIN-CHU: Criteria for a general continuous self-map to have chaotic sets, 4T119
FU, BAOLIAN: Coupled variational principles and generalized coupled variational principles in photoelasticity, 9A477
FU, DAN-YING: Two-dimensional deployable hexapod truss, 12A869
FU, DEXUN: Numerical simulation of the axisymmetric unsteady incompressible flow by a vorticity-velocity method, 2A879
FU, GONGKANG: Finite element analyses of irregular thick plates for signal pole design, 3A544
- Seismic response statistics of SDOF system to exponentially modulated colored input: An explicit solution, 3A1328
FU, JAN-KAUNG: Computations of aerodynamic drag for spinning transonic projectiles using an implicit TVD scheme, 1A1013
FU, LEI: Response of thick composite rings under uniform external pressure, 1A599
FU, MINGWANG: Stress analysis of the precision forging die for a bevel gear and its optimal design using the BEM, 3A50
- Simulation of the viscoplastic forming process by the FEM, 7A24
FU, MINHUEI: Semi-implicit method for solving problems of elasticity theory for thin axially-symmetric bodies, 10A514
FU, PEIFU: Automatic quadrilateral mesh generation for planar regions (Chinese), 11A30
FU, S: Application of an in-line, stereoscopic, PIV system to 3-component velocity measurements, 1A1150
FU, SONG: Numerical study of turbulent swirling flow in combustor, 10A1372
FU, SS: Acoustic lance: New *in situ* seafloor velocity profiles, 6A263
FU, TM: Infinite BE for elastodynamic problems of antiplane motion in an elastic half-space, 5A186
FU, WB: Study on ignition criterion of a large carbon-char particle, 5A1212
FU, WU-SHUNG: Experimental study of the heat transfer enhancement of an outer tube with an inner-tube insertion, 2A1087
- Thermal enhancement in laminar channel flow with a porous block, 10A1272
FU, XD: Numerical and experimental analysis of combined convective and radiative heat transfer in laminar flow over a circular cylinder, 2A1135
FU, YIBIN: Resonant-triad instability of a pre-stressed incompressible elastic plate, 6A497
- Effects of pre-stresses on the propagation of nonlinear surface waves in an incompressible elastic half-space, 7A227
FU, Z: Integrated approach to structural shape optimization, 11A723
FUCCI, F: Climate effect on the evaluation of the heat transfer through the perimetral structures of refrigerating stores, 8A1207
FUCHIDA, K: Nonlinear seismic response analysis method for saturated soil-structure system with absorbing boundary, 11A1402
FUCHIGAMI, Y: Optimization of grinding conditions with genetic algorithms, 3T629
FUCHS, H.: Optical research engines: Tools in gasoline engine development, 4A1266
FUCHS, HP: Nonlinear prebuckling response of short thin-walled laminated composite cylinders in bending, 11A510
FUCHS, K: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391
FUCHS, L: Sensitivity study of turbulent reacting flow modeling in gas turbine combustors, 3A1213
FUCHS, MB: Improved multivariate reanalysis of structures based on the structural variation method, 7A903
- Quasistatic optimal actuator placement with minimum worst case distortion criterion, 12A827
FUCHS, P: Fatigue load monitoring in steel bridges with Rayleigh waves, 8A696
FUCHSSTEINER, B: Explicit and exact solutions to a Kolmogorov-Petrovskii-Piskunov equation, 11A169
FUENTES, C: Note on the soil-water conductivity of a fractal soil, 10T1410
FUENTES-PEREZ, M: Interactive effect of multiple crack growth on fatigue, 2A587
FUERTES, AB: Characterizing fuels for atmospheric fluidized bed combustion, 1A1332
FUEYO, N: Detailed measurements in heavy oil and oil-water emulsion flames, 3A1226
FUFAEV, NA: Rigid body technique in the theory of motion of wheeled vehicles, 6T78
FUFAYEV, NA: Painleve paradoxes and the dynamics of a brake shoe, 4A103
FUH, CHYUN-CHAU: Analysis and design of a nonlinear robust controller, 12A362
FUH, KUANG-HUA: Prediction of the cutting forces for chamfered main cutting edge tools, 1A726
- Prediction of cutting forces in the ball-end milling process, 6A575
FUHS, AE: Handbook of Fluid Dynamics and Fluid Machinery, 6N30
FUIS, V: Computational modeling of stress at conical contact with ultra fine teeth (Polish), 11A816
FUJII, HA: Control of a flexible beam using back electromotive force of motor, 6A325
- Analysis of the dereverberated transfer function in finite dimensions, 6A267
- Deployment-retrieval control of a tethered subsatellite under effect of tether elasticity, 6T308
- Optimization of generalized potential in mission function control: Analytical and experimental results, 6T291
- Design of stabilizing control laws for mechanical systems based on Lyapunov's method, 6A299
- Wave approach for control of orientation and vibration of a flexible structure, 11A338
- Real-time optimal state feedback control for tethered subsatelite system, 12T414
- Nonlinear receding-horizon state estimation by real-time optimization technique, 12A329
FUJII, K: Computational study of large-disturbance oscillations in unsteady supersonic combustion around projectiles, 3A1219
- Effectiveness of tuned liquid dampers under wind excitation, 4A216

- Aerodynamics of high speed trains passing by each other, 4A970
- Fundamental study on prediction of slope failure by acoustic emission (Japanese), 4T617
- Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210
- Improvement of the accuracy for extracting areas in danger of the landslide using satellite multispectral data (Japanese), 10T676

FUJII, M: Perforated trapezoidal fins for tube-in-fin heat exchangers: Heat transfer and pressure drop characteristics, 8A1193

FUJII, S: Experimental study of bridge seismic sliding isolation systems, 8A145

FUJII, T: Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, 4A1184
- Elastic state and orientation of needle-shaped inclusions, 8A383
- Fatigue life prediction of CFRP using evolution of creep property (Japanese), 12A535

FUJII, TJ: Fatigue degradation and life prediction of glass fabric polymer composite under tension-torsion biaxial loadings, 8A582

FUJII, Y: Local stress and fatigue strength of the joint between longitudinal and transverse ribs in orthotropic steel deck plate (Japanese), 1A616
- Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), 11A779
- Conjugate heat and mass transfer in a desiccant-air-flow system: A numerical solution method, 12A1292

FUJIKAWA, S: Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, 4A1188

FUJIKAWA, SJ: Spacecraft attitude determination by Kalman filtering of global positioning system signals, 4T301

FUJIKI, A: Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of austenitic heat-resistant steel SUH36 against FE-base sintered alloy using plane specimens, 3A827
- Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, 9A1341

FUJIKI, H: Contact mechanics of ultrahigh-molecular-weight polyethylene for artificial knee joint, 3A1400

FUJIMA, Y: Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, 11T1329

FUJIMORI, A: Application of H_∞ control and LQC with frequency-dependent weight syntheses to a multivariable active flutter suppression system, 2A195

FUJIMOTO, E: Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706

FUJIMOTO, H: Finite element analysis of edge lamination during hot rolling process of aluminum alloy, 1A716
- Deformation process of a water droplet impinging on a solid surface, 5A918
- Deformation and rebounding processes of a water droplet impinging on a flat surface above Leidenfrost temperature, 9A1127

FUJIMOTO, K: Improvement in accuracy of seismic traveltime tomography by adding a priori information as constraints on velocity reconstruction (Japanese), 1A1379
- Field testing on nonsalt solar ponds, 9A1420

FUJIMOTO, T: Flow fields of interacting parallel supersonic free jets, 7T1114
- Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, 9A1253

FUJINO, Y: Active control of multimodal cable vibrations by axial support motion, 1A141
- Nonlinear dynamic model for cables and its application to a cable-structure system, 4A164
- Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), 5A259
- Weather influenced on constructability of tall structures (Japanese), 10A938

FUJIOKA, Y: Stability of liquid CO_2 in seawater at high pressures, 3A957

FUJISAKI, K: Effect of lubricating oils on piston ring friction and scuffing, 10A1386

FUJISAWA, J: Development of core technologies for laser repairing of surface defects of steel billet (Japanese), 2A324

FUJISAWA, N: Feedback control of vortex shedding from a circular cylinder by cross-flow cylinder oscillations, 12A1135

FUJISAWA, S: Two-dimensionally quantized friction observed with 2D frictional force microscope, 4T836

FUJISE, K: Face milling of Inconel 718 with cemented carbide tools, 1T723

FUJISHIRO, M: Basic test on the dynamic strength of R/C square columns under biaxial bending, 11A745

FUJITA, H: Macroscopic wetting behavior of a 2D meniscus under a horizontal plate, 1T1004
- Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), 2A691

FUJITA, I: Correction method of erroneous vectors in PIV, 5T1111

FUJITA, J: Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871

FUJITA, K: Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N13
- Flow-Induced Vibration - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N10
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, 1T257
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, 1T265
- Anode heat loss and current distributions in a DC arcjet, 6A1214
- Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, 8A877

FUJITA, M: Axisymmetric oscillations of an opposing jet from a hemispherical nose, 3A954

FUJITA, O: Visualization of formaldehyde distribution above platinum plate catalyst by using LIF method, 8A1046

FUJITA, S: Fabrication of micro shape by trans replica and plating technique (Japanese), 4T656

FUJITA, T: Vaporization behavior of a single droplet impinging on a hot surface with a flame-sprayed ceramic coating and a pressurized atmosphere, 9A1262
- Development of microvibration testing device: Realizing microvibrational reference waves smaller than floor vibrations, 12A196

FUJITA, Y: Evaporation heat transfer of falling films on horizontal tube - Part 2: Experimental study, 9A1261
- Evaporation heat transfer of falling films on horizontal tube - Part 1: Analytical study, 9A1260

FUJITANI, M: Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), 5T1332

FUJITANI, Y: Experimental study of spherical Couette flow in magnetic fluids: Torque characteristics for outer sphere rotation, 4T957

FUJIWARA, H: Effect of size distribution of powders on yield value and viscosity of mortar (Japanese), 9A525
- Ultimate behavior of tie plates at high-speed tension, 10A917
- Study on correlativity for paint film deterioration of steel bridge with corrosion under paint films (Japanese), 11A647

FUJIWARA, K: Study on the sound absorption of a quadratic-residue type diffuser, 2A231

FUJIWARA, T: Simplified analysis of circular plates including voids, 3A535
- Noise reduction characteristics of porous elastic road surfaces, 12A297

FUJIYA, A: Theoretical study on effects of convexities placed on the surface of road marking on the visibility (Japanese), 9A1461

FUKADA, E: Piezoelectricity of biopolymers, 6T514

FUKADA, R: Measurements and visualization in the flowfield behind a model propeller, 9A1244

FUKAGAWA, R: Evaluation of ground properties in deep soil improvement method and its application to automization of construction (Japanese), 10T671

FUKAHORI, Y: Mechanism of rubber abrasion - Part 3: How is friction linked to fracture in rubber abrasion?, 3A825

FUKAI, J: Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - I: Modeling, 11A1183
- Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - II: Experiments, 11A1184

FUKANO, T: Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf, 2N38
- Advances in Multiphase Flow 1995 - Selected papers from 2nd Int Congress on Multiphase Flow, Kyoto, Japan, April, 1995, 5N24
- Mass transfer into a liquid film flowing concurrently with gas flow: Correlation of average mass-transfer coefficient, 2A1166

FUKASAKU, Y: Theoretical and experimental studies on the pseudo-dropwise condensation of a binary vapor mixture, 8A1143

FUKASAWA, T: Analysis of rockfall by the dynamic granular element method, 4A624
- Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), 4A615

FUKATSU, K: Microphysical investigations on mechanical structures realized in p+ silicon, 5T352

FUKAYA, J: Precise tilting control of rotating table: Mechanical structure and preformance (Japanese), 4A864

FUKS-RABINOVICH, GS: Principles for choosing composite materials for cutters hardened by a combined technique, 6A576

FUKUDA, H: Progress in Durability Analysis of Composite Systems - Proc of Int Conf DURACOSYS 95, Brussels, Belgium, July 1995, 11N36

FUKUDA, K: Study on two-phase flow instability in parallel multi-channels, 7A1116
- Microhardness testing using AFM and SEM, 7T1005
- Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), 10A920

FUKUDA, T: Neurocomputing pavement performance model and its application to project level pavement management system (Japanese), 2T529
- Fiber optic method for detection of impact induced damage in composite laminates (Japanese), 3A742
- Study on smart composite beam: Optimal vibration control of 1st flexural mode by use of piezoelectric ceramics (Japanese), 4A800
- Effect of growth atmosphere on convection in $LiTaO_3$ melt, 7A1224
- Warping stress equation at the transverse joint edge of concrete pavement slab based on FEM analysis (Japanese), 9A926

FUKUHARA, T: Mechanism and estimation of leakage through concrete crack (Japanese), 4A1302

FUKUI, H: Inverse analysis of a regional groundwater flow model by extended Bayesian method: In case of steady flow data (Japanese), 10T1063

FUKUI, M: Study of simple assembly method for compact optical modules used in telecommincations systems (Japanese), 2A330

FUKUI, S: Physical meandings of A/Q_p0 and σ/Q_p0 in molecular gas film lubrication problems, 10T1109

FUKUI, Y: Construction methods of 3D shapes based on the nesting behavior of paper wasps, 9A883

FUKUKITA, H: Ultrasound pulse reflection mode measurement of nonlinearity parameter B/A and attenuation coefficient, 10A360

FUKUMOTO, I: Study on thermal shock phenomena due to laser irradiation using molecular dynamics, 3T1177
- Study of fusing and vaporizing-process of fcc metal due to laser irradiation: Molecular dynamics simulation (Japanese), 4A662

FUKUMOTO, Y: Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), 5A688
- Behavior of steel-to-concrete connections under combined axial force and cyclic bending, 7A963
- Local stability of 2D steady irrotational solenoidal flows with closed streamlines, 7A1122

FUKUNAGA, H: Buckling design of symmetrically laminated plates using lamination parameters, 1A653

FUKUOKA, H: Ultrasonic diffraction from a transducer with arbitrary geometry and strength distribution, 1A332

FUKUOKA, N: FEM analysis of torsional strength for twist drill, 1T15

FUKUSHIMA, M: Liquefaction strength and post-liquefaction volumetric change of non-plastic silt (Japanese), 10A656

FUKUSHIMA, T: Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706

FUKUSHIMA, Y: Site-dependent attenuation relations of seismic motion parameters at depth using borehole data, 6A1270
- Scaling relations for strong ground motion prediction models with M^2 terms, 11A1351

FUKUTA, H: Nonlinear stability of kolmogorov flow with bottom-friction using the energy method, 3A958

FUKUTE, T: Effects of classified fly ash on improving performance of roller compacted concrete pavements (Japanese), 6A745
- Hydrogen embrittlement of prestressing steel (Japanese), 9A490

FUKUTOMI, J: Unsteady fluid forces on a blade in a cross-flow turbine, 1A259

FUKUYAMA, A: Ohmic scaling based on current diffusive ballooning mode, 7A1146
- Circulating power of steady state tokamaks, 9A1202

FUKUYAMA, K: Statistical fatigue properties of ductile cast irons (Japanese), 3A654

FUKUZONO, H: Micro shock sensor (Japanese), 9T442

FULACHIER, L: Velocity near-field of variable density turbulent jets, 10A1166

FULEKY, P: Fatigue life estimation under random loading with respect to inhomogeneity of the mechanical properties of the material, 6A611

FULFORD, JK: Inverse geoacoustic analysis of a shallow water site, 10A346

FULINSKI, A: Noise-induced transitions in a bistable process driven by non-Markovian noise: Stationary states, 9A118

FULLAGER, KPL: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223

FULLER JR, ER: Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409, 8N15

FULLER, CR: Advanced time domain wave-number sensing for struiural acoustic systems - Part III: Experiments on active broadband radiation control of a simply supported plate, 3A305
- Optimizing actuator locations in active noise control systems using subset selection, 3A286
- Analytical investigation of active control of radiated inlet fan noise, 6A252
- Energy exchange between the coupled media of impulsively-excited, fluid-filled, elastic cylinders, 8A217
- Control of broadband acoustic radiation with adaptive structures, 9A375
- Active control of low-frequency broadband jet engine exhaust noise, 9A371

FULLER, GG: Dynamic response of a near-critical polymer blend solution under oscillatory shear flow, 6A865
- Structure and rheology of wormlike micelles, 10A1048

FULONG, D: Fabrication of high frequency gratings for high temperature, 2A326

FULTON, RE: Concurrent element level processing for nonlinear dynamic analysis on a massively parallel computer, 4A27

FUMEI, H: Theoretical and experimental study of U-shaped trough shell of aqueduct, 2A477

FUMERO, R: Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, 6A1349

FUNABASHI, H: Motion transmissibility of in-parallel actuated manipulators, 6A357
- Kinematic and static characteristics of in-parallel actuated manipulators at singular points and in their neighborhood, 9A448

FUNADA, Y: Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), 3T436

FUNAHASHI, S: Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), 7A897

FUNAHASHI, Y: Algorithm for computing fingertip positions of a multifingered hand in 3D, 6A365
- Contact points identification in enveloping grasp, 12A434

FUNAKURA, S: Solid particle erosion behavior of FRMs (Japanese), 2A428

FUNAZAKI, K: Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part I: Measurement of wake-affected heat transfer and wake-induced transition model, 11A1140
- Unsteady boundary layers on a flat plate disturbed by periodic wakes - Part II: Measurements of unsteady boundary layers and discussion, 11A1141

FUNG, KA SHUEN: Unsteady measurements near leading edge of separated flow, 11A951

FUNG, RONG-FONG: Application of variable structure control in the nonlinear string system, 2A99

FUNG, TC: Accuracy of discontinuous Galerkin methods in the time domain, 10A200
- Extrapolated Galerkin time FEs, 10A29

FUNK, K: Experimental characterization of dynamic micromechanical transducers, 10A457

FUNSTEN, HO: Low-energy neutral-atom imaging techniques for remote observations of the magnetosphere, 5A253

FURDYNA, JK: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518

FUREBY, C: Large eddy simulation of reacting flows applied to bluff body stabilized flames, 4A1080

FURGIUELE, FM: Monitoring of biaxial tests of ceramic materials by digital speckle interferometry, 2A709

FURLONG, ER: Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, 8A1052

FURMANSKI, P: Heat conduction through a barrier made of a suspension of disklike particles, 3T1116

FURROW, KW: Environmental effects on stitched RTM textile composites, 10A585

FURRUYA, H: Static shape control of space trusses with partial measurements, 5A756

FURUE, H: Estimating method for creep property of carbon fiber reinforced polyamide by enhancing stepwise temperature (Japanese), 12A534

FURUICHI, H: Amorphous state formation and structural changes in α alumina by repeated rubbing, 4A837

FURUKAWA, A: Cavitation and Gas-Liquid Flow in Fluid Machinery Devices - 1995 ASME/JSME Fluids Eng Conf, 2N34
- Air-water two-phase flow performance of centrifugal pump impellers with various blade angles, 11T1048

FURUKAWA, E: Development of a flexure-hinged translation mechanism driven by two piezoelectric stacks, 6A358

FURUKAWA, K: Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), 4T619

- Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), 4T822
- Method for predicting service load from the width and height of striation (Japanese), 10A743
- Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), 10A680

FURUKAWA, M: Autonomous driving of multiple AGVs for FMS by use of SLA (Japanese), 9A449

FURUKAWA, S: Continuous path control using clothoid curves, 9A396

FURUKAWA, T: Finite element simulation of dynamic responses of piezoelectric actuators, 10A492

FURUKAWA, Y: Study on the simulation of grinding process (2nd Report): Distribution of cutting edges on a grinding wheel surface (Japanese), 4T648
- Study on controlling algorithm to realize high-speed & high-accuracy control systems (1st Report): Proposal of modified delta operator (Japanese), 9A438

FURUKAWA, YUJI: Precision engineering, its past and future (Japanese), 7T483

FURUMOTO, GH: Augmented Burnett-equation solutions over axisymmetric blunt bodies in hypersonic flow, 1A1014

FURUTA, H: Elasto-plastic analysis with constitutive relation based on fuzzy reasoning, 1A3
- Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, 1A260
- Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, 8A1035
- Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), 11A776

FURUTANI, H: Vibration, buckling and dynamic stability of a non-uniform rectangular cantilever plate with thermal gradient resting on a Pasternak foundation (Japanese), 1A662

FURUTANI, M: Participation of inert species in air in piston-compression ignition, 11T1304

FURUTANI, N: Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, 4A1017

FURUTANI, R: Measurement of 3D objects using gray code projection (Japanese), 2A705
- On-line process control based on geometrical parameters from measured data in machining process (Japanese), 7A482

FURUTANI, T: Automated inspection of printed circuit board patterns referenced to CAD data, 9A872

FURUUCHI, H: Study on practical design method for shear of reinforced concrete slabs loaded near free edge (Japanese), 9A925

FURUYA, H: Combining genetic and deterministic algorithms for locating actuators on space structures, 12A860

FURUYA, N: Position and force control of pneumatic cylinder with ultrasonic PWM valves: First Report - Evaluation of control system by numerical simulation and experiments (Japanese), 3A412
- Study on direct kinematics of Stewart platform: Kinematic analysis by origami solution (Japanese), 12A448

FURUYA, O: Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, 12A1023

FURUYAMA, S: Weakly nonlinear waves and acoustic streaming produced by a vibrating strip flush with a plane wall, 5A258

FUSCHI, P: Nonlinear FE analysis of no-tension masonry structures, 1A904
- Elastic-plastic-damage constitutive models with coupling internal variables, 7T530

FUSEGI, T: Turbulent flow calculations of mixed convection in a periodically-ribbed channel, 2A1101
- Computational study of turbulent diffusion in a thermally-stratified channel with obstruction, 4A1079
- Mixed convection in periodic open cavities with oscillatory throughflow, 6A1091

FUSSELL, BK: Study of the pressure distribution on an aircraft tire-wheel interface, 2A794

FUYUKI, M: Capabilities of small computers as image analyzer for quantitative flow visualization, 5A1116

FUZI, K: Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, 11A631

FYHRIE, P: Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N14

FYRILLAS, MM: Surfactant dynamics and rectified diffusion of microbubbles, 9A1131

G

GABBITAS, BL: Dynamic stress analysis of an open-shapod railway bogie frame, 9A219

GABERSON, HA: Application of Choi-Williams reduced interference time frequency distribution to machinery diagnostics, 3A737

GABR, MA: Underseepage analysis of levees on two-layer and three-layer foundation, 8A540

GABRIELSON, TB: Fundamental noise limits for miniature acoustic and vibration sensors, 5A114

GAC, K: Analysis of initiation of detonation process in a system comprising an explosively loaded elastic partition, 6A225

GACEK, J: Simulation of the antiaircraft, long-range missile guidance, 3A359

GACHAGAN, A: Evaluation of 1-3 connectivity composite transducers for air-coupled ultrasonic applications, 9A390

GAD-EL-HAK, M: Modern developments in flow control, 8A899
- Rotating gas-liquid flows in finite cylinders: Sensitivity of standing vortices to end effects, 12A1088

GADANGI, R: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164

GADANGI, RK: Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, 10A1219

GADELRAB, RM: Free vibration of a stepped composite Timoshenko cantilever beam, 4T157
- Friction and wear properties of E-glass fiber reinforced epoxy composites under different sliding contact conditions., 10A964

GADELSHIN, MS: Large-size flat heat pipes, 10A1320

GADOMSKI, A: Kinetics of microdomain formation in 2D assemblies, 9A12

GAFFET, S: Teleseismic waveform modeling including geometrical effects of superficial geological structures near to seismic sources, 2A1236

GAFFURI, P: Wide-range modeling study of n-heptane oxidation, 1A1337

GAFKA, D: Nondestructive evaluation of cracks in conducting magnetoelastic materials, 9A645

GAGE, PJ: Variable-complexity genetic algorithm for topological design, 4A862

GAGLIARDINI, L: Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, 10A123

GAI, E: Guidance, navigation, and control from instrumentation to information management, 6A312

GAI, SL: Bluff body wakes with free, fixed, and discontinuous separation at low Reynolds numbers and low aspect ratio, 7A1105
- High-enthalpy, hypersonic compression corner flow, 11A918

GAITONDE, AL: Comparison of a cell-center method and a cell-vertex method for the solution of the 2D unsteady Euler equations on a moving grid, 2A1038

GAITONDE, D: Behavior of linear reconstruction techniques on unstructured meshes, 4A58
- Structure of a turbulent double-fin interaction at Mach 4, 4A1030
- Performance of eddy-viscosity-based turbulence models in 3D turbulent interaction, 9T1197

GAJARDO, C: Numerical Methods in Engineering Simulation - Proc of 3rd Int Congress on Numer Methods in Eng and Appl Sci (Cimenics '96), Merida, Venezuela, March 1996, 10N30

GAJDOS, L: Fracture behavior of a pipe with very sharp deep notches subjected to cyclic loading, 1A746

GAJEWSKI, RR: Prototype object-oriented FEM program: Class hierarchy and graphic user interface, 10A68
- Improved viscous boundary for dynamic soil-structure interaction, 10A686

GAJIC, Z: Filtering for linear stochastic systems with small measurement noise, 5A309

GAJJAR, JSB: Hydrodynamic stability of channel flow with compliant boundaries, 8A948

GAJL, O: Object oriented software methodology: A case study of systems for dam monitoring, state diagnosis and visualization, 6A62

GAJO, A: Influence of viscous coupling in propagation of elastic waves in saturated soil, 1A697
- Silent boundary conditions for wave propagation in saturated porous media, 10A1424
- Effects of inertial coupling in the interpretation of dynamic soil tests, 12A666

GAL, A: Temporal database with data dependencies: A key to computer integrated manufacturing, 8A371

GAL-OR, B: Thrust vector control eyed for passenger aircraft: A novel methodology to combine jet-engine tests with sub-scale proof-of-concept flight tests, 9A1228
- Proposed flight testing standards for engine thrust vectoring to maximize kill ratios, post-stall agility and flight safety, 9A1231

GALAMBOS, TV: Evaluation of web buckling test results on welded beams and plate girders subjected to shear, 10A634

GALANTE, M: Genetic algorithms as an approach to optimize real-world trusses, 7A902

GALASSI, L: Influence of boundary-layer transition on measured incipient separation angles, 2A943

GALBATO, AT: F117-PW-100 hybrid ball bearing ceramic technology insertion, 10A1010

GALBRAITH, RAM: Influence of detailed blade design on the aerodynamic performance of straight-bladed vertical axis wind turbines, 8A1011
- Examination of vortex deformation during blade-vortex interaction, 11A1068

GALDI, GP: Asymptotic structure of plane steady flow of a viscous fluid in exterior domains, 1T985
- Unsteady motions of fluids of second grade, 3A961
- Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with nonhomogeneous boundary conditions, 5A874

GALE, GW: Removal of particulate contaminants using ultrasonics and megasonics: A review, 7A1039

GALEAO, AC: Adaptive Petrov-Galerkin formulation for the compressible Euler and Navier-Stokes equations, 8A921

GALEL, Z: Laser guidance for repairing gas turbine parts, 5A1034

GALILEEV, SM: Method of initial functions in the analysis of laminated plates (Russian), 7A633

GALILI, N: Direct and inverse dynamics of a very flexible beam, 12A144

GALISHIN, AZ: Calculation of axisymmetrical thermoviscoelastoplastic state of the branched laminar shells allowing for the deformation of cross shear and rotation (Russian), 7T615

GALITSEYSKY, BM: Study of internal heat transfer in nonuniform porous structures, 10T1423

GALIULLIN, RG: Nonlinear oscillations of a gas in a tube, 6A202

GALKA, A: Duality and the complementary energy principle for a class of nonlinear structures - Part II: Anomalous dual variational principles for compressed elastic beams, 3A66
- Duality and the complementary energy principle for a class of nonlinear structures - Part I: Five-parameter shell model, 3A65
- Nonsmooth mechanics and dynamic contact problems, 6A76

GALL, B: Case studies in dynamic modeling of large-scale wastewater treatment plants, 11A1448

GALLAGHER, M: Influence of strain rate, specimen length and confinement on measured geotextile properties, 12A661

GALLARDO, T: High-eccentricity libration theory revisted, 3A237

GALLEGO, FO: Rivlin-Eriksen's theorem application to a turbulence model, 4T1086

GALLEGO, R: Hypersingular BEM for transient elastodynamics, 10A271

GALLEGO-JUAREZ, JA: Finite amplitude flexural vibrations at ultrasonic frequencies in metallic bars, 1A133

GALLEGOS, C: Rheology and processing of salad dressing emulsions, 5A867

GALLETLY, GD: Stability of complete circular and non-circular toroidal shells, 2A501

GALLETTI, C: Metric relations and displacement groups in mechanism and robot kinematics, 5A366

GALLIMARD, L: Error estimation and adaptivity in elastoplasticity, 6A409

GALLIMORE, AD: Near- and far-field plume studies of a one-kilowatt arcjet, 6A1217

GALLIMORE, JJ: Walking when utilizing a sensory feedback system and an electrical muscle stimulation gait orthosis, 1A1449

GALLIS, MA: Simulation of chemically reacting flowfields around a 70-deg spherically blunted cone, 1A1022
- Atomic species radiation from air modeled with direct simulation Monte Carlo method, 1A1021
- Modeling of chemical reactions in hypersonic rarefied flow with the direct simulation Monte Carlo method, 10A1096
- Maximum entropy analysis of chemical reaction energy dependence, 10A1102
- Comparison of maximum entropy direct simulation Monte Carlo code with flowfield measurements, 12A1081

GALLMAN, J: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046

GALLMAN, JW: Structural optimization for joined-wing synthesis, 7A1160

GALLO, Y: Extension of classical modal reanalysis algorithms: The improvement of initial models, 3A112

GALLOWAY, JE: Theoretical model for flow boiling CHF from short concave heaters, 3A1083

GALLUS, HE: Endwall and unsteady flow phenomena in an axial turbine stage, 5A1055
- Rotating stall in a single-stage axial flow compressor, 11A1057

GALLY, TA: Viscous normal shock solutions including chemical, thermal, and radiative nonequilibrium, 3A1137

GALPER, A: Dynamic equations of motion for a rigid or deformable body in an arbitrary non-uniform potential flow field, 1A1000

GALUTA, EM: Combined BE and FE analysis of composite box girder bridges, 1A910

GALVANETTO, U: Energy-conserving corotational procedure for the dynamics of planar beam structures, 12A185

GALVAO, CO: Evalutation of runoff and erosion loss in micro-basins utilizing the hydrodynamic model WESP, 1A976

GALYAVIEVA, MS: Problems of hydrofoil design for a given range of angles of attack, 12A1165

GALYBIN, AN: Growth of a crack from the boundary of a narrow cavity in a biaxially-compressed body, 4A701

GAMBAROVA, PG: Compressive model for study of shear in thin-webbed RC and PC beams, 6A742
- Bond and splitting in reinforced concrete: Test results on bar pull-out, 11A746

GAMBARYAN-ROISMAN, T: Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, 8A1247

GAMBIN, W: Natural surface layer of metals, 9A985
- Problems of mechanics of metal surface layers, 9A418
- Seizing effect in the roller burnishing process, 9A698

GAMBLE, JB: Modeling and simulation of a proportional solenoid valve, 9A437

GAMBOLATI, G: Advanced Methods for Groundwater Pollution Control - Proc of Int Symp at CISM, Udine, Italy, May 1994, 11N46

GAMPALA, R: Power-law creep blunting of contacts and its implications for consolidation modeling, 9A497

GAN, G: Computational fluid dynamics applied to ejector heat pumps, 7A1271

GAN, GY: Role of p-version Q(p) and Q'(p) 2D approximation functions in smooth and singular problems, 12A64

GAN, X: Turbulent flow between two disks contrarotating at different speeds, 11A896

GANABOV, VI: Predicting a noise level of rotating propeller with blades of an arbitrary form, 10A340

GANAPATHI, M: Supersonic flutter analysis of thermally stressed laminated composite flat panels, 9A323
- Large amplitude vibrations of circular cylindrical shells, 10A186
- Nonlinear dynamic instability of laminated composite plates using FEM, 11A554

GANAPATHY, C: Finite element method analysis of nonlinear dynamic response of articulated towers, 8A143

GANCHEV, S: Microwave imaging of thick composite panels with defects, 1A853

GANDHI, MV: Experimental control of a single-link flexible arm incorporating electrorheological fluids, 1T433
- Flexure of a fluid-saturated cuboid, 2A1223

GANDHI, UN: Data-based models for automobile side impact analysis and design evaluation, 10A283

GANESAN, N: Influence of constrained damping layer on the resonant response of orthotropic cylindrical shells, 1A164
- Impulse response of cantilever cylindrical shells with discontinuity in thickness subjected to axisymmetric load, 1A613
- Dynamic response of tapered composite beams using higher order shear deformation theory, 4A152
- Comparison of beam and plate theories for free vibrations of metal matrix composite pre-twisted blades, 7A183
- Analysis of temperature distribution during circumferential welding of cylindrical and spherical components using the FEM, 8A844
- Frequency response of shell-plate combinations, 10A185

GANESAN, P: Finite difference analysis of unsteady natural convection flow along an inclined plate with variable surface temperature and mass diffusion, 6A1076

GANESAN, R: Self-optimizing single-step algorithm for the numerical integration of parabolic equations, 1A78
- Probabilistic analysis of non-self-adjoint mechanical systems with uncertain parameters, 5A96
- Vibration and stability of fluid conveying pipes with stochastic parameters, 8A223
- Solution of the 1D convection-diffusion equation by a multilevel Petrov-Galerkin method, 12A1299
- Dynamic response and stability of a rotor-support system with nonsymmetric bearing clearances, 12A99

GANESAN, T: Source localization in a partially known shallow-water channel, 3A260

GANESAN, V: Numerical analysis of two-ring flame stabilizer flows in aircraft afterburners, 1A1324

GANGARAJ, SK: Model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals, 2A25
- Posteriori ostimation and adaptive control of the pollution error in the h-version of the FEM, 5A31
- Computer-based proof of the existence of superconvergence points in the FEM: Superconvergence of the derivatives in FE solutions of Laplace's, Poisson's and the elasticity equations, 9A51

GANGARAO, HVS: Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, 7A888

- Warping solution for shear lag in thin-walled orthotropic composite beams, 10A590

GANGHOFFER, JF: Expansion of a cavity in a rubber block under stress: Application of the asymptotic expansion method to the analysis of the stability and bifurcation conditions, 3A426
- Deductive theory of friction, 3A822
- Geometrically nonlinear modeling of contact problems involving thin elastic layers, 12A494
- Deductive theory of friction - II: Mathematical study, 12A879

GANGLOFF, RP: Elevated temperature fracture particulate-reinforced aluminum - Part II: Micromechanical modeling, 2A411

GANGULEE, D: Vortex control over sharp-edged slender bodies, 1A1123

GANGULI, R: Aeroelastic optimization of a helicopter rotor with composite coupling, 5A1068
- Aeroelastic optimization of an advanced geometry helicopter rotor, 7A1179
- Aeroelastic optimization of a helicopter rotor with two-cell composite blades, 9A1242

GANGULY, G: Reliability issues in plated-through-holes due to insertion-mount complaint-pin connectors, 3A858

GANIEV, RF: Wave technology in machinery manufacture, 12A471

GANJI, AR: Introduction to Engineering Experimentation, 7R10

GANJI, V: Effects of obstacles on Rayleigh wave dispersion obtained from the SASW test, 12A220

GANOULIS, J: Impact of global climate change on temperature and precipitation in Greece, 1T1406

GANS, RF: When is cutting chaotic?, 5A575

GANSER, G: Modeling of the transient heat transfer across a heat transfer tube in a bubbling fluidized bed, 8T1315

GANSLE, AJ: Experimental leakage and rotordynamic results for helically grooved annular gas seals, 10A229

GANSLER, RA: Investigation of minute solar radiation data, 1A1428

GANTI, G: Velocity characteristics of steady flow through a straight generic inlet port, 2A960

GANY, A: Model for low-temperature ignition of magnesium particles, 2A1176
- Ignition of boron particles coated by a thin titanium film, 4A1250

GAO , CUNFA: Problems of the elliptical holes or cracks in orthotropic plates (Chinese), 9A804
- Stress in an orthotropic plate containing two circular holes forced by elastic rings (Chinese), 9T599

GAO , DEPING: Nonlinear quasi-conforming FEM and the hybrid-mixed FEM - II: On the Hu-Washizu variational principle (Chinese), 9T21

GAO , FENG: Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, 6A362

GAO , QIU-XIN: Numerical simulation of scale effect on ship stern flow and hydrodynamic performance, 4A1106

GAO , YUCHEN: Stress-strain field near the notch tip of a rubber sheet, 3A428

GAO , ZHENFENG: Application of nonlinear beam and cable element theory in the design of light mast structures (Chinese), 9A23

GAO, CHAO: Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769
- Tribological performance of magnetic thin-film glass disks: Its relation to surface roughness and lubricant structure and its thickness, 5A805

GAO, CHENG: Transient heat conduction during quenching of downward facing copper and stainless steel convex surfaces, 11A1193

GAO, D: Tool condition monitoring in drilling using vibration signature analysis, 10A1000

GAO, D YANG: Complementary FEM for finite deformation nonsmooth mechanics, 12A14

GAO, DAVID YANG: Nonlinear elastic beam theory with application in contact problems and variational approaches, 7T598

GAO, DEPING: Analysis of the influence of main control parameters in the transient response calculation (Chinese), 6A8

GAO, FENG: Physical model of the solution space of 3-dof parallel planar manipulators, 6A361
- Statistically fractal strength theory for brittle materials, 9A780

GAO, H: Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, 5A399
- Overload effects in environmental hydrogen induced fracture, 11A646

GAO, J: Kinematic and static hypotheses for constitutive modeling of granulates considering particle rotation, 9A5

GAO, JIAN: Physical theory of asymmetric plasticity, 1A492
- Experimental and numerical investigation of failure of alumina under plane stress, 3A649

GAO, M: Conventional K calibration equations for single-edge-cracked tension specimens, 10A834

GAO, N: Short crack coalescence and growth in 316 stainless steel subjected to cyclic and time dependent deformation, 6A608
- Crack growth morphology and microstructural changes in 316 stainless steel under creep-fatigue cycling, 6A603

GAO, RENLIANG: Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), 8A581

GAO, S: Interaction between an interface and cracks, 5A649
- Issue of the interaction between multicracks near the interface, 5A657

GAO, SHIAN: Large-eddy simulation of turbulent heat transport in enclosed impinging jets, 5A950

GAO, SX: Heat transfer behavior of Reiner-Rivlin fluids in rectangular ducts, 7A1223

GAO, W: Simple and effective error separation method for roundness measurement, 7A898

GAO, WEI: Application of the improved BP network to rotating machinery fault diagnosis (Chinese), 6A353

GAO, XIN-LIN: General solution of an infinite elastic plate with an elliptic hole under biaxial loading, 8A384
- Mathematical analysis of the elasto-plastic anti-plane shear problem of a power-law material and one class of closed-form solutions, 9A515

GAO, XIYAN: New measuring technique of diesel spray (Chinese), 8A936

GAO, XIYU: Research on ultra-precise level detection method of storage tanks (Chinese), 11A1087

GAO, Y: Determination of frequency response functions from response measurements - II: Regeneration of frequency response functions from polos and zeros, 12A325
- Determination of frequency response functions from response measurements - I: Extraction of poles and zeros from response cepstra, 12A324

GAO, YC: Crack tip field in a rubber sheet, 3A515
- Stress singularity near the notch tip of a rubber-like specimen under tension, 10A591

GAO, ZENTONG: Constant amplitude fatigue strength and P-S_a-S_m -N camber family, 10T728

GAO, ZHENGHONG: Unconditional stable solutions of the Euler equations for 2D and 3D wings in arbitrary motion, 8A232

GAO, ZHIQIANG: Novel approach to reconfigurable control systems design, 12T375

GAONKAR, GH: Flap-lag-torsion stability in hover and forward flight with 3D wake, 6A222

GAPONOV, SA: Interaction of a supersonic boundary layer with acoustic waves, 12T1104

GAPPOEV, M: Mode II fracture testing method for highly orthotropic materials like wood, 10A838

GARALA, HJ: Analytical-experimental evaluation of hybrid commingled carbon-glass-epoxy thick-section composites under compression, 2A416
- Stress singularity due to kink band weakening a unidirectional composite under compression, 11A480

GARANDET, JP: Effect of natural convection in liquid phase mass transport coefficient measurements: The case of thermosolutal convection, 10A1351

GARAY, BM: Structural stability of ordinary differential equations with respect to discretization methods, 7T81

GARBA, JA: Intelligent control system for multiple dof vibration isolation, 7A136

GARBALINSKA, H: Assessment of nonlinearity of moisture diffusion in cement mortar, 9A941

GARBEY, M: Linear stability analysis of reaction fronts in liquids, 11A980

GARBOCZI, EJ: Algorithm for computing the effective linear elastic properties of heterogeneous materials: 3D results for composites with equal phase Poisson ratios, 1A564
- Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, 3A487

GARBUTT, G: Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", 12A1451

GARCEAU, M: Unstructured adaptive mesh computations of rotorcraft high-speed impulsive noise, 1A291

GARCIA, E: Optimal placement of damped struts using simulated annealing, 1A876
- Precision position control of piezoelectric actuators using charge feedback, 3A386
- Self-sensing magnetostrictive actuator for vibration suppression, 11T740

GARCIA, G: Numerical computation of free boundary problems in elastohydrodynamic lubrication, 7A1187

GARCIA, HE: State-space supervisory control of reconfigurable discrete event systems, 10A421

GARCIA, JAG: BEM applied to 2D thermoelastic contact problems including conduction and forced convection in interstitial zones, 3A1185

GARCIA, M: Turbulent coherent structures in the near wall region of open channel flows, 10T1056

GARCIA, MH: Modeling of 1D turbidity currents with a dissipative-Galerkin FEM, 4T921

GARCIA, RA: Trajectory tracking in nonlinear systems via nonlinear reduced-order observers, 2A274

GARCIA-ABDESLEM, J: Inversion of the power spectrum from gravity anomalies of prismatic bodies, 3A1283

GARCIA-BONITO, J: Local active control of diffracted diffuse sound fields, 1A337
- Active cancellation of pressure and pressure gradient in a diffuse sound field, 3A280

GARCIA-CORDOVILLA, C: Abrasive wear resistance of aluminum allot-ceramic particluate composites, 10A969

GARCIA-ESTEBAN, M: Design of pulse width modulation controllers for stabilization and tracking in derived DC-to-DC power converters, 11T340

GARCIA-LOPEZ, CM: Linearized θ-methods - I: Ordinary differential equations, 9A96
- Piecewise-linearized method for ordinary differential equations: Two-point boundary-value problems, 11A26

GARCIA-REJON, A: Effect of die geometry and flow characteristics on viscoelastic annular swell, 4A445

GARDEN, H: Experimental results and FE modeling of an embedded polarimetric sensor, 2A425

GARDENIERS, H: Survey on the reactive ion etching of silicon in microtechnology, 10T723

GARDENIERS, JGE: Electrochemical microactuator: Principle and first results, 11A359

GARDINER, KM: Integrated design strategy for future manufacturing systems, 7T473

GARDNER, BK: Sound cancellation by the use of secondary multipoles, 3A289

GARDNER, NJ: Punching shear of continuous flat reinforced concrete slabs, 9A597

GARDNER, R: Instability of oscillatory shock profile solutions of the generalized Burgers-KdV equation, 8A193

GARDNER, TN: Influence of external fixators on fracture motion during simulated walking, 11A1460

GARDNER-MEDWIN, D: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319

GARDONIO, P: Active control of waves on a 1D structure with a scattering termination, 11A162

GAREY, LE: Higher-order methods for eigenvalues of second-order ordinary differential equations with boundary conditions, 9A125
- Effects of coordinate transformation and differencing schemes on matrix structure and convergence history, 11A42

GARG, HP: Economic design of a rock bed storage device for storing solar thermal energy, 1A1427
- Performance and cost analysis of two-pass solar air heaters, 2A1274
- Comparative performance of coriander dryer coupled to solar air heater and solar air-heater-cum-rockbed storage, 10A1323

GARG, S: New approach to evaluate the deflection of a thrust pad on an elastic support, 6T835

GARG, SANJAY: Unsteady pressure loads generated by swept-shock-wave and boundary-layer interactions, 11A949

GARG, VK: Laminar mixed convection in vertical elliptic ducts, 5A1134

GARGAS, J: Noncontacting strain measurements during tensile tests, 10A856

GARGETT, AE: Biological-physical interactions in the upper ocean: The role of vertical and small scale transport processes, 2A1258

GARGUREVICH, IA: Chemical structures of fuel-rich, premixed, laminar flames of 1,1-$C_2H_4Cl_2$/CH_4/O_2/Ar, 3A1208

GARIEL, JC: Site-dependent attenuation relations of seismic motion parameters at depth using borehole data, 6A1270

GARIFULLIN, MF: Loading surface effect vehicle during flight over non-regular sea wave, 8A230
- Structural mechanics and strength of flight vehicles: Refining the numerical solution of aeroautoelasticity problem, 8A231

GARIMELLA, R: Automatic construction of 3D models in multiple scale analysis, 6A47
- Free-floating closed-chain planar robots: Kinematics and path planning, 7A433

GARIMELLA, S: Performance evaluation of a generator-absorber heat-exchange heat pump, 11A1234

GARIMELLA, SV: Heat transfer enhancement in narrow channels using 2D and 3D mixing devices, 3A1028
- Thermal wake downstream of a 3D obstacle, 6A977
- Nozzle-geometry effects in liquid jet impingement heat transfer, 12A1262

GARINIS, D: Two-dimensional autocorrelation function analysis of smoked foil patterns, 3A211

GARMAN, JFR: Internal waves from a body accelerating in a thermocline, 8A205

GARMESTANI, H: Stress analysis of an orthotropic work-hardening cylinder with body force, 3A472

GARNCAREK, RJ: Proportioning of I sections on account of their stability (Polish), 10A904

GARNER, CP: Numerical modeling and particle image velocimetry measurement of the laminar flow field induced by an enclosed rotating disc, 7A1063
- Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, 7A1192

GARNHAM, JE: Rolling contact fatigue of three pearlitic rail steels, 10A982

GARNIER, V: Propagation of ultrasonic waves passing through an RCC test specimen (French), 11A710

GARRA, BS: Measurements of ultrasonic backscatter coefficients in human liver and kindey *in vivo*, 3A273

GARRATT, JR: Atmospheric boundary layer - Advances in knowledge and application, 12A1420

GARRETT JR, WE: Axial strain measurements in skeletal muscle at various strain rates, 5A1362

GARRETT, H: Estimates of the Clementine interstage adapter satellite tumbler rate, 5T744
- Clementine dosimetry, 5A741

GARRETT, HB: Clementine engineering experiments program, 5A742
- Single-event upset effects on the Clementine solid-state data recorder, 5A752

GARRIS, CT: Liquefaction-induced ground-surface disruption, 3A585

GARRISON, TJ: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
- Measurements of the triple shock wave-turbulent boundary-layer interaction, 6A950
- Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, 6A948

GARRITANO, RF: Anomalies in the normal force measurement when using a force rebalance transducer, 11A861

GARTSHORE, IS: Resolved-scale turbulence in the atmospheric surface layer from a large eddy simulation, 3A1349

GARVEY, S: Operation of a four-bar mechanism above several critical speeds, 10A83

GARVEY, SD: Model reduction using dynamic and iterated IRS techniques, 2A24
- Quantifying the correlation between measured and computed mode shapes, 10A126

GARVEY, VJ: Process re-engineering provides the impetus for accelerating change, 10T494

GARWOOD, SJ: TWI biaxial test program: 1984-1994, 1T500
- Use of failure assessment diagrams for the prediction of cleavage fracture in structural applications from the behavior of sub-sized specimens, 1T775

GARZA-RIOS, LO: Effect of mooring line arrangement on the dynamics of spread mooring systems, 8A1002

GASCON, F: Experimental results on bulk waves and Rayleigh waves in slate, 6A187

GASIOR, E: Influence of the chemical composition of steel on railway rails, in particular on their hydrogen embrittlement, and their susceptibility to delayed cracking (Polish), 9A782
- Computer simulation used for solid state diffusion investigations (Polish), 9A1297

GASKELL, DR: Introduction to the Thermodynamics of Materials, Third Edition, 10N36

GASKELL, PH: Modeling and analysis of meniscus roll coating, 2A536
- Natural convection in a shallow laterally heated air-filled cavity, 4A1153
- Burning velocities, Markstein lengths, and flame quenching for spherical methane-air flames: A computational study, 7A1306

GASKIN, D: Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, 10A577
- Strength and damage mechanisms of notched 2D triaxial braided textile composites and tape equivalents under tension, 11A686

GASPAR, Z: Global, direct algorithm for path-following and active static control of elastic bar structures, 3A767

GASPARINI, DA: Stochastic parallel-little network for modeling materials, 7A551

GASPARINI, FM: Heat capacity of confined helium very near the lambda point, 7A302

GASPERINI, P: Forecasting where larger crustal earthquakes are likely to occur in Italy in the near future, 3A1282

GASPERSIC, P: N2 method for the seismic damage analysis of RC buildings, 6A1276

GASTALDI, F: Dissipative graph solutions for a 2 dof quasistatic frictional contact problem, 2A386

GATES, DJ: Solar cars and variational problems equivalent to shortest paths, 8T290

GATES, JH: Refined model for base-isolated bridges with bilinear hysteretic bearings, 11A1405

GATES, S: Clementine attitude determination and control system, 5A740
- Attitude determination and control of Clementine during Lunar mapping, 11A356

GATES, TS: Elastic-viscoplastic behavior of fiber-reinforced thermoplastic composites, 10A574

GATIGNOL, R: Canonical variables for one Hamiltonian system, 4T94

GATO, LMC: Iterative use of a time-marching code for designing turbomachine blade rows, 8A1030

GATON, VA: Computational estimate of the separation effect, 5A1017

GATSCHER, JA: Comparison of mechanical impedance methods for vibration simulation, 10A204

GATSKI, T: Prediction of nonequilibrium turbulent flows with explicit algebraic stress models, 4A1081

GATTESCO, N: Experimental study on stad shear connectors subjected to cyclic loading, 12A840

GATTI, E: Perturbation approach for low frequency noise in junction field effect transistors, 7A71

GAUDEMER, R: Flow structure in a flooded ball bearing, 12T1197

GAUDENZI, P: Pin-force and Euler-Bernoulli models for analysis of intelligent structures, 2T735
GAUDILLER, L: Active control of flexible structures using a minimum number of components, 12A393
GAUL, L: Hybrid BEM in elastodynamics, 8T64
- Sound energy flow in the acoustic near field of a vibrating plate, 12A274
GAUNAURD, GC: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7
- Identification of cylindrical shells with sets of reinforcing ribs by their acoustic Bragg diffraction (grating) patterns, 1A317
- Acoustic scattering of a plane wave by two spherical elastic shells, 3A271
- Acoustic point source scattering by a spherical elastic shell submerged beneath a free surface, 10A354
GAUR, U: Effects of external loading of fiber on fiber-matrix interfacial shear strength, 5A641
GAUSSIER, P: Moving the frontiers between robotics and biology, 11A374
GAUTAM, M: Analysis of throughflow velocity in 2D fluidized bed bubbles, 1T1362
- Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
GAUTHIER, M: ASM Engineered Materials Handbook, Desk Edition, 2N53
- Fractal aggregates with fullerene-like monomers, 8A462
GAUTHIER, P: Four-dimensional data assimilation with a wide range of scales, 4T1345
GAUVIN, R: Laminate temperature distributions and filling time prediction during non-isothermal impregnation of fiber preforms, 2A555
- Experimental investigation of resin temperature and pressure during filling and curing in a flat steel RTM mold, 9A720
- Heat transfer analysis in a heated mold during the impregnation phase of the resin transfer molding process, 10A1269
- Directional permeability measurement of deformed reinforcement, 12A486
GAVAISES, M: Development and validation of a computer simulation model for diesel fuel injection systems, 10A1385
- Modeling wall impaction of diesel sprays, 11A1303
GAVALESHKO, MP: Magnetic susceptibility of HgTe(Mn,Fe,Cr), 6T519
GAVRIC, L: Computation of propagative waves in free rail using a FE technique, 1A185
GAVRILENKO, GD: Precritical state and stability of cylindrical shells beyond the elasticity limit, 7A668
- Stability of smooth and ribbed shells of revolution under nonhomogeneous precritical state: Survey, 9A635
GAVRILENKO, P: Scales of rock permeability, 11A1324
GAVRILESCU, CO: Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, 2A1109
GAVRILYUK, SL: Solitary waves in bubbly liquids are linearly unstable, 8A197
GAWANDE, WJ: Ultrasonic velocity and elastic constant measurements in some borate glasses, 7A587
GAWIN, D: Comparison of results of estimation of thermal energy consumption carried out by simulation method and balance sheet method (Polish), 10A1452
GAWNE, DT: Erosion of steel surfaces by grit-blasting as a preparation for plasma spraying, 12A721
GAZENGEL, B: Aspects of tuning and clean intonation in reed instruments, 2A213
GAZETAS, G: Dynamic soil-pile-foundation-structure interaction: Records and predictions, 9A679
- Dynamic response of a tower-pier system on viscoelastic foundation with frictional interface, 11A142
GAZIZOV, KS: Diagonal formulation of mass matrix in the FEM, 6A7
GAZONAS, GA: Oblique impact modeling of fuzes, 9A283
GAZZOLA, F: Existence and numerical approximation of periodic motions of an infinite lattice of particles, 5A75
- Periodic motions of an infinite lattice of particles with nearest neighbor interaction, 8T70
GDOUTOS, EE: Evaluation of stress intensity factors in metals by photoelastic coatings and caustics, 9A861
- Effect of processing residual stresses on stress-strain behavior of brittle matrix composites, 12A539
GE , DONG-FANG: Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), 4A863
GE , XIURUN: Automatic generation of unstructured quadrilateral mesh for complex domain (Chinese), 9A48
GE, DONGFANG: Study on CAM system for machining of mesh surface: Relation of machining accuracy, error of normal vector and mesh interval (Japanese), 1A729
GE, HANBIN: Formulation of moment-thrust-curvature relations for locally buckled unstiffened steel box stub-columns (Japanese), 1A643
- Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), 5A1325
- Ultimate strength of steel outstands in compression, 10A905
GE, JIAN-HUA: H_{∞} control via output feedback for state delayed systems, 11A280
GE, QILU: Wear of 2024 Al-Mo-SiC composites under lubrication, 12A920
GE, SS: Comparative studies between finite and infinite time interval controllers for flexible joint robots, 2T309
GE, T: Toeplitz Jacobian matrix for nonlinear periodic vibration, 5A98
GE, Y: Study on ignition criterion of a large carbon-char particle, 5A1212
GE, Z-M: Global stability of a shielded dual-spin satellite, 8A779
GE, ZHENG-MING: Stability of rate gyro in a vehicle with uncertian angular velocity and acceleration, 6A96
- Influence of temperature on the drift of Gyroscope, 6A95
- Stability of Euler, Lagrange and Kovalevskaya gyros in a Newtonian central force field with second order terms, 10A93
GE, ZONGTOA: Improvement of interferometer accuracy with self-calibration of phase interpolation error (Japanese), 9A863
GEA, HAE CHANG: Structural optimization using a new local approximation method, 8A727
GEARY, W: Fatigue crack growth from 2D surface defects, 1A744
GEAVES, GP: Investigation using the BEM into the acoustic field resulting from concave loudspeaker-type structures, 2A235
GEBERT, GA: Rotating nose tip effects on slender body aerodynamics at high angles of attack, 5A1005
GEBERT, M: Measurement of tooth displacements and mouthpiece forces during brass instrument playing, 4A1370
GEBHARD, U: Numerical investigation of fluidic micro-oscillators, 10T444
GEBHART, B: Review of semi-analytical solutions for flame impingement heat transfer, 12A1320
GEE, AE: Model of brittle materials single point machining with high removal rates, 10A713
GEE, K: Analysis of tangential slot blowing on F/A-18 isolated forebody, 2A1029
- Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
GEE, KEN: Computational investigation of tangential slot blowing on a generic chined forebody, 1A1112
GEE, MG: High temperature friction and wear testing of silicon nitride ceramics, 5T809
- High resolution characterization of tribochemical films on alumina, 12A905
GEER, J: Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - I: Steady problems, 6A1125
- Hybrid perturbation-Galerkin technique for nonlinear heat conduction problems - II: Partial differential equations, 6A1126
GEER, JF: Reconstruction of blurred orbits under finite resolution, 1A280
- Multiple scales approach to sound generation by vibrating bodies, 2A210
- Rational trigonometric approximations using Fourier series partial sums, 4A77
GEGOV, AE: Decentralized fuzzy control of multivariable systems by active decomposition of control laws, 2T279
- Multilayer fuzzy control of multivariable systems by passive decomposition, 9A410
GEIGER, H: FE stress and strain analysis in composites with embedded optical fiber sensors, 1A14
GEISSLER, W: Experimental and numerical investigations of dynamic stall on a pitching airfoil, 10A1200
GELACHOV, MV: Carbon-fiber-titanium silicide interphase-titanium-matrix composites: Fabrication, structure and mechanical properties, 6A421
GELDA, RK: Determination of reaeration coefficients: Whole-lake approach, 9T1428
GELFGAT, AY: Stability of confined swirling flow with and without vortex breakdown, 9A1176
GELIN, J-C: Inverse solution procedure for material parameters identification in large plastic deformations, 9A510
GELIN, JC: Computation of thin structures at large strains and large rotations using a simple C^0 isoparametric three-node shell element, 3A545
- Modeling drawbeads in sheet metal forming, 4A629
- Finite element modeling of the stamping of anisotropic sheet metals, 11T586
GELL, DA: Stellar alignment of the high resolution Doppler image, 5A242
GELLER, BE: Influence of pigments on structural-mechanical properties of chemical fibers, 6T462
GELLER, VE: Technological and theoretical studies on the process of polyester yarn high-speed spinning, 6A450
GELSEY, A: Computational environment for exhaust nozzle design, 11A968
GELTMACHER, AB: Modeling study of the effect of stress state on void linking during ductile fracture, 11A670
GEN , H: Acoustic properties of an infinite elastic plate backed by multiple layers, 9A339
GENCAY, R: Statistical framework for testing chaotic dynamics via Lyapunov exponents, 6A109
- Topological invariance of Lyapunov exponents in embedded dynamics, 7A117
GENDELMAN, OV: Description of polyethylene crystal as a continuum with internal dof, 9A9
GENERALOVA, NV: Effect of a strip-shaped punch on a linearly-deformable foundation strengthened by a thin covering, 8A389
GENERAZIO, ER: Advanced Ceramic Matrix Composites: Design Approaches Testing and Life Prediction Methods, 11N26
GENEVIER, ESG: Separation of fetal and maternal ECG complexes from a mixed signal using an algorithm based on linear regression, 1A1465
GENG, DONGFANG: Study on CAM system for 5-axis controlled machining center: Efficient collision check and collision avoidance (Japanese), 7A747
GENG, P: Massively-parallel computation for acoustical-scattering problems using BEMs, 9A364
GENG, ZJ: Intelligent control system for multiple dof vibration isolation, 7A136
GENIN, YV: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812
GENNA, F: Incremental elastic-plastic FE solver in a workstation cluster environment - Part I: Formulations and parallel processing, 12A527
- Incremental elastic-plastic FE solver in a workstation cluster environment - Part II: Performance of a first implementation, 12A528
GENNARETTI, M: Forces and moments in incompressible quasi-potential flows, 11T871
GENS, A: Estimation of parameters in geotechnical backanalysis - I: Maximum likelihood approach, 7A700
- Parameter and variance estimation in geotechnical backanalysis using prior information, 7A1368
- Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, 7A701
GENTA, G: Dynamic design, 4T866
- Use of genetic algorithms for the design of rotors, 5A858
GENTAZ, L: Motion simulation of a cylinder at the surface of a viscous fluid, 8A1003
GENTILE, A: Dynamic behavior of a mobile robot vehicle with a two caster and two driving wheel configuration, 7A399
GENTILE, G: Whiskered tori with prefixed frequencies and Lyapunov spectrum, 3A104
GENTILI, G: Inversion and quasi-static problems in linear viscoelasticity, 1A477
GENTLE, CR: Review of the *in vitro* evaluation of conduit-mounted cardiac valve prostheses, 1A1475
- Conduit-mounted cardiac valve prostheses: A review of their uses, design, and in vivo performance, 11A1479
GENTRY, TR: Local buckling of pultruded FRP beams: Analysis and design, 9A621
GEOFFROY, M: Active shielding of eddy current sensors: A method to focus the magnetic field in order to improve lateral resolution and coupling coefficient, 2A700
GEORGE , A: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
GEORGE, AR: Effects of ingested atmospheric turbulence on measured tail rotor acoustics, 7A313
GEORGE, DL: Review of electrical impedance techniques for the measurement of multiphase flows, 12A1095
GEORGE, J: Prediction of aerofoil wake subjected to the effects of curvature and pressure gradient, 6A1024
- Physical mechanisms to explain the observed features of ambient noise in shallow water, 12A282
GEORGE, WK: X-wire response in turbulent flows of high-intensity turbulence and low mean velocities, 6A1051
GEORGESCU, M: Considerations concerning the influence of cross-section type on critical-load erosion in compression members, 11T542
GEORGESON, GE: Composite structure development decisions using X-ray CT measurements, 2A703
GEORGIADIS, HG: Dynamic indentation of an elastic half-plane by a rigid wedge: Frictional and tangential-displacement effects, 1A461
GEORGIADIS, JG: Conjugate forced convection in crossflow over a cylinder array with volumetric heating, 7A1204
GEORGIEVSKII, DV: Saint-Venant plastic flow in plane spiral confusor (Russian), 7A526
GEORGIOU, GC: Stability of the shear flow of a viscoelastic fluid with slip along the fixed wall, 9A1173
GEORGIOUS, GC: Singular function boundary integral method for the Laplace equation, 8A60
GEPPERT, CA: Electrohydrodynamically enhanced heat transfer in pool boiling, 8T1150
GEPPERT, LM: Electrohydrodynamically enhanced heat transfer in pool boiling, 8T1150
GER, GS: Dynamic tensile strength of composite laminate joints fastened mechanically, 7A567
GERA, D: Analysis of throughflow velocity in 2D fluidized bed bubbles, 1T1362
GERADIN, M: Exact model reduction technique for beam structures: Combination of transfer and dynamic stiffness matrices, 1A132
- Implicit time integration of a class of constrained hybrid formulations - Part I: Spectral stability theory, 1A210
- Improved transfer matrix technique as applied to BHA lateral vibration analysis, 1A181
- Dynamic force identification for beamlike structures using an improved dynamic stiffness method, 10A144
- Improved dynamic stiffness method and modal analysis for beam-like structures, 12A150
GERARD, B: Cracking and permeability of concrete under tension, 10A841
GERARDI, DT: Evaluation of fatigue and wear characteristics of M50 steel using MIL-L-7808K, 12A924
GERASIMOV, AV: Numerical simulation of interaction between the turbine fragment and the engine envelope, 11A185
GERASIMOV, YF: Large-size flat heat pipes, 10A1320
GERAY, OKAN: Linear quadratic regulator loop shaping for high frequency compensation, 11A283
GERBEAUX, M: Musculo-articular modeling of the triceps brachii, 6A1320
GERBERT, G: Tension distribution in multiple V-belt drives, 2A810
GERBSCH, RA: Bio-Medical Fluid Engineering - 1995 ASME/JSME Fluids Eng Conf, 1N39
GERDES, R: Stability of the thermohaline circulation in a simple coupled model, 12A1412
GERE, JM: Mechanics of Materials, Fourth Edition, 10N23
GEREN, N: Automated rework of printed circuit board assemblies: Methods and procedures, 7T464
GERGELY, P: Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, 11A1404
GERICH, DA: Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, 4A1076
GERLACH, CFG: Modeling the influence of filler particles on surface geometry in drawn PET film, 6A418
GERLINGER, P: Matrix dissipation for central difference schemes with combustion, 3A1239
- Numerical simulation of mixing for turbulent slot injection, 6A970
GERMAIN, J-P: Analytical and experimental study of the oblique passing of a solitary wave over a shelf in a two-layer fluid, 1A226
GERMAIN, L: Method for the evaluation of tensile properties of skin equivalents, 1T1461
- Study of the tensile properties of living skin equivalents, 6A1358
GERMAINE, JT: Undrained multidirectional direct simple shear behavior of cohesive soil, 7A693
- Rate-dependent undrained shear behavior of saturated clay, 7A691
GERMANOVICH , LN: General properties of strength criteria, 1A778
GERMERDONK, R: Isothermal liquid transport in porous media: Capillary hysteresis effects, 8A1304
GEROLYMOS, GA: Implicit computation of 3D compressible Navier-Stokes equations using k-ε closure, 12A1076
- Computation of unsteady 3D transonic nozzle flows using k-ε turbulence closure, 12A1127
GEROT, JT: Three-dimensional videography of swimming with panning periscopes, 8A1452
GERRITSEN, KGM: Computer simulation of landing movement in downhill skiing: Anterior cruciate ligament injuries, 12A1493
- Modeling of force production in skeletal muscle undergoing stretch, 12A1455
GERSHMAN, IS: Dissipative self-orginization of rubbing surfaces in tribosystems, 5A761
GERSHUNI, GZ: Mechanical quasi-equilibrium and thermovibrational convective instability in an inclined fluid layer, 8A1086
GERSTLE, WH: Energy-based cohesive crack propagation modeling, 6A631
GERSTOFT, P: Parameter estimation using multifrequency range-dependent acoustic data in shallow water, 10A347
GERTNER, Y: Die-less forming of large and variable-radii of curvature in continuous-fiber thermoplastic-matrix composite materials, 10A717
GERTS, EV: Technique for designing vane pneumatic drives, 5A841
GERTS, ME: Technique for designing vane pneumatic drives, 5A841
- Limiting characteristics of a resonance machine with an electromagnetic vibration exciter, 6A515
GERZ, T: Possible expianation of countergradient fluxes in homogeneous turbulence, 11A996
GESSNER, FB: Calculation method for developing turbulent flow in rectangular ducts of arbitrary aspect ratio, 1A1081
GETHIN, DT: Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, 6A1124

GETTU, R: Characterization of flexural toughness in fiber reinforced concretes, 1A531
GEUBELLE, PH: Spectral method for 3D elastodynamic fracture problems, 3A676
- Crack propagation in homogeneous and bimaterial sheets under general in-plane loading: Nonlinear analysis, 5A621
GEURTS, B: Comparison of numerical schemes in large-eddy simulation of the temporal mixing layer, 7A1134
GEURTS, BJ: Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, 4A1006
GEVELBER, MA: Analysis of induction plasma deposition dynamics for control, 5A336
GEVORKYAN, RS: Effect of a discrete load on a three-layer strip with viscoelastic middle layer, 6A435
GHADDAR, C: Analysis of a part design procedure, 3A418
GHADDAR, NK: Natural convection over rotating cylindrical heat source in an enclosure, 10A1258
GHAJAR, AJ: Methodology for comparison of hydraulic and thermal performance of alternative heat transfer fluids in complex systems, 1A1349
GHALEB, AF: One-dimensional bulk waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A590
- Surface waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A591
- Deformation of a superconducting cylindrical tube in a parallel magnetic field, 4A596
GHALI, A: Transfer of moments between columns and slabs: Proposed code revisions, 7A959
- Moment transfer by shear in slab-column connections, 9A919
GHAMARI, M: Numerical study of convective heat transfer from a blunt plate at low Reynolds number, 3A1031
GHANDAKLY, AA: Decentralized model for adaptive multimachine power system stabilizers design, 11A79
GHANDHI, JB: Fluorescent behavior of ketones at high temperatures, 12A1204
GHANDI, K: Shape memory ceramic actuation of adaptive structures, 4A799
GHANEM, R: Stochastic FE analysis of soil layers with random interface, 10A662
GHANEM, RG: Numerical solution of spectral stochastic FE systems, 9A65
- Heuristic spectral estimation of bivariate nonstationary processes, 11A100
GHARBI, A: Numerical modeling of variable density turbulent jets, 8A1115
GHARIB, M: Turbulent vortex ring-free surface interaction, 5A879
- Experimentalist and the problem of turbulence in the age of supercomputers, 12A1203
GHATTAS, O: Variational FEM for stationary nonlinear fluid-solid interaction, 2A201
GHATTAS, ON: Infeasible path optimal design methods with applications to aerodynamic shape optimization, 7A1175
GHAVAMI, K: Ultimate load behavior of bamboo-reinforced lightweight concrete beams, 4A805
- Multicriteria optimal design of stiffened plates - Part 1: Choice of the formula for the buckling load, 7A634
GHAZARIAN, N: Nonlinear random response of antisymmetric angle-ply laminates under thermal-accoustic loading, 2A120
GHAZIZADEH, A: Neural networks representation of a vehicle model: "Neuro-Vehicle", 8A343
GHAZLAN, G: Incremental formulation for the linear analysis of thin viscoelastic structures using generalized variables, 2A387
GHEE, TA: Wake of a small-scale rotor in forward flight using flow visualization, 1A1140
GHIDAGLIA, J-M: Rotational effects in the modulations of weakly nonlinear water waves over finite depth, 4A260
GHIL, M: Singularly weighted symplectic forms and applications to asteroid motion, 1A281
GHILA, A: Radial inflow between two flat disks, 5A880
GHMMAM, AHA: Review of the influence of high angle of attack aerodynamics on aircraft dynamic stability, 1A1121
GHOBARAH, A: Analytical model for shear-link behavior, 3A1331
- Dynamic response of hollow section frames with bolted moment connections, 4A187
- Site effects on the seismic response of a suspension bridge, 9A1390
GHODRATI AMIRI, GR: Moment curvature analysis of confined concrete flexural members, 2A461
GHONEM, H: Time-dependent fatigue crack growth in titanium metal matrix composites, 5A602
GHONIEM, AF: Application of the infinite reaction rate model in the simulation of the dynamics of exothermic mixing layers, 2A1188
- Lagrangian simulation of a thin non-premixed flame in the field of an asymmetric layer, 12A1323
GHORAI, S: Consistency coefficient of a power-law flow of blood through the narrow vessel, 9A1448
GHORBANIAN, K: Influence of formation processes on oblique detonation wave stabilization, 11A236
GHORBANPOUR, A: Thermoelastic buckling of thin cylindrical shells based on improved stability equations, 12A626
GHOSAL, A: Modeling of axially-translating flexible beams, 10A151
GHOSAL, S: Analysis of numerical errors in large-eddy simulations of turbulence, 9A1190
- Evaporation of multicomponent liquid fuel droplets, 11A1179
GHOSH CHOUDHURI, P: Effects of compressibility, pitch rate, and Reynolds number on unsteady incipient leading-edge boundary layer separation over a pitching airfoil, 8A1008
GHOSH MOULIC, S: Dynamic effects of centrifugal forces on turbulence, 9A317
GHOSH, A: Residual strength approach to fatigue design and analysis, 1A887
- Periodic response of piecewise nonlinear oscillators under harmonic excitation, 9A161
- Impact dampers for controling self-excited oscillation, 12A208
GHOSH, AK: Impact dampers for nonlinear vibrating systems, 4A217
- Axisymmetric vibration of a long cylinder, 4A173
- Hydromagnetic pulsatile flow of a two-phase fluid, 8T993
- Free-vibration analysis of stiffened laminated plates using higher-order shear deformation theory, 12A179
GHOSH, BK: Perspective theory for motion and shape estimation in machine vision, 2A287
GHOSH, C: Coupled nonlinear system in (2 + 1) dimension and overturning solitons, 10T262
GHOSH, D: Evaluation of the anisotropic Green's function in 3D elasticity, 7A516
GHOSH, MK: Temperature distribution and thermal distortion due to frictional heating in a dry shaft-bush tribosystem using the FEM, 2A817
- Thermal effects on film thickness and traction in rolling-sliding EHL line contacts: An accurate inlet zone analysis, 10A1228
GHOSH, ML: Diffraction of elastic waves by two parallel rigid strips embedded in an infinite orthotropic medium, 2A160
GHOSH, RN: CLIP: Computer software for creep life prediction of engineering materials, 10A530
GHOSH, S: Computational Methods in Micromechanics, AMD-Vol 212/MD-Vol 62 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N1
- Vertical oscillation of a bed of granular material, 9A1348
- Optimal design of process variables in multi-pass wire drawing by genetic algorithms, 11A581
- Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell FE model, 12A529
GHOSH, SK: Materials Processing Defects - Studies in Applied Mechanics series, Vol 43, 6N24
- Tension development length of reinforcing bars embedded in high-strength concrete, 2A766
- Generating solid models from 2D representations, 6A854
- Curvature sensing: A new concept in tracing technology, 6A375
GHOSHAL, A: Wave propagation in circular cylindrical shells with periodic axial curvature, 12A216
GHOSHDASTIDAR, PS: Computation of flow and heat transfer around a vertical discrete protruding heater using an operator-splitting algorithm, 1A1200
GHOSN, AA: Governing stresses in Z-purlin lap joints, 6A861
GHOSN, LJ: Optimum notch configurations for the chevron-notched four-point bend specimens, 6A692
- Fatigue crack growth behavior of PWA 1484 single crystal superalloy at elevated temperatures, 10A730
GHOUATI, O: Inverse solution procedure for material parameters identification in large plastic deformations, 9A510
GIACOMIN, AJ: Role of temperature in the entanglement kinetics of a polymer melt, 5A452
GIAMBANCO, F: Optimality conditions for shakedown design of trusses, 5A694
GIAMBANCO, G: Nonlinear FE analysis of no-tension masonry structures, 1A904
- Interface model for analysis of deformation behavior of discontinuities, 6A1250
GIANCHANDANI, YB: Bent-beam strain sensors, 11A347
GIANNAKOGLOU, KC: Segregated implicit solution algorithm for 2D and 3D laminar incompressible flows, 4A981
- Arbitrary blade section design based on viscous considerations: Background information, 12A1179
GIANNAKOPOULOS, AE: Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix, 2A447
- Analysis of Berkovich indentation, 3A431
- Finite element analysis of configurational stability and finite growth of buckling driven delamination, 4A691
- Controlled indentation: A general approach to determine mechanical properties of brittle materials, 8A690
GIANNAKOPOULOU, AA: Effect of processing residual stresses on stress-strain behavior of brittle matrix composites, 12A539
GIANNI, R: Constant flow rate problem for fluids with increasing yield stress in a pipe, 5A863
GIANNINI, R: Non-Gaussian solution for random rocking of slender rigid block, 9A688
- Motion of a rigid body with a rounded base due to harmonic excitation, 10A110
GIANNOTTI, P: Assessment of normal testis growth by quantitative texture analysis of 2D echo images, 1T1458
GIARDINI, C: Theoretical and experimental analysis of non-axisymmetrical deep drawing, 6A564
- Formability in extrusion forging: The influence of die geometry and friction conditions, 6A557
GIBBARD, SR: Investigation of primary flight control failure in a piloted helicopter, 10A438
GIBBON, JD: Shape and dimension of the Lorenz attractor, 3A161
- Voyage around the Navier-Stokes equations, 10A1064
GIBBONS, C: Calculation of serviceability deflections for non-sway frames with semi-rigid connections, 11A771
GIBBS, BM: Towards a practical characterization for structure-borne sound sources based on mobility techniques, 2T224
- Structure-borne sound power emmission from resiliently mounted fans: Case studies and diagnosis, 4A311
GIBBS, SJ: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
GIBELING, JC: Analysis of creep transients in pure metals following stress changes, 1A478
- Observations of tension-compression asymmetry in the cyclic deformation of aluminum alloy 7075, 8A566
GIBIANSKY , LV: Geometrical-parameter bounds on the effective moduli of composites, 2A408
GIBIANSKY, LV: Bounds on the effective moduli of cracked materials, 7A807
- Extremal structures of multiphase heat conducting composites, 11A1198
- Complete characterization of the possible bulk and shear moduli of planar polycrystals, 12A3
- Phase-interchange relations for the elastic moduli of two-phase composites, 12A567
GIBOWICZ, SJ: Introduction to Mining Seismology - International Geophysics Series, Vol 55, 1N38
GIBSON , RE: Origins of the theory of consolidation: The Terzaghi-Fillunger dispute, 12A647
GIBSON, AG: Finite element aided design of biaxial bending tests on oval sandwich plates, 2A474
- Manufacture of polyphenylene sulfide matrix composites via the powder impregnation route, 4A948
- New biaxial bending test on oval sandwich plates, 7A645
- Study of the failure behavior of key-lock joints in glass fiber reinforced plastic pipework, 11A687
GIBSON, CG: Algorithm to generate the transition curve of the planar four-bar mechanism, 9A1019
GIBSON, CH: Turbulence in the ocean, atmosphere, galaxy, and universe, 7A1128
GIBSON, ED: Sliding wear behavior of deformation-processed cu-15vol%Cr in situ composites, 12A911
GIBSON, LJ: Effects of non-periodic microstructure on the elastic properties of 2D cellular solids, 2A434
GIBSON, RF: Innovative Processing and Characterization of Composite Materials, NCA-Vol 20-AMD-Vol 211 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA, 4N16
- Vibration characteristics and comparisons of automotive engine valves made from conventional and non-conventional materials, 10T1021
GIBSON, RG: Active control of low-frequency broadband jet engine exhaust noise, 9A371
GIDDENS, DP: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
GIDNER, A: Energy efficient evaporation process for treating bleach plant effluents, 3A1090
GIEHRL, M: Numerical analysis of nozzle and afterbody flow of hypersonic transport systems, 5A1036
GIEL, PW: Three-dimensional Navier-Stokes heat transfer predictions for turbine blade rows, 4A1119
GIELEN, CCAM: Estimating the contribution of muscles to joint torque based on motor-unit activity, 12A1445
GIELLY, J: Behavioral study of a reinforced analogical soil under external loads, 12A656
GIERLINSKI, JT: Structural Analysis, Design and Control by the Virtual Distortion Method, 10R19
GIERLOTKA, S: Investigations of the combustion products of aluminum in explosion processes, 9A332
GIEROW, PA: Material-property effects on a thin-film solar concentrator, 1A1348
GIERULSKI, W: Analysis of working possibilities of a power shovel, 9A166
GIESY, DP: Efficient computation of closed-loop frequency response for large-order flexible systems, 12A404
GIGLA, M: Microstructure and properties of CuAlNi shape memory alloys, 9A1295
GIJSBERS, J: Structural lightweight concrete: Recent research, 1A895
GIL, FJ: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
GIL, JJ: High-speed photography study on engagement process of wet clutch, 7A1193
GIL, PJS: Spiral coordinates with application to wave propagation, 4A255
GIL-SEVILLANO, J: Analysis of the extrusion of bimetallic tubes by numerical simulation, 4A631
- Analytical approach to the stress field in the extrusion of bimetallic tubes, 9A695
GILAT, R: Dynamic inelastic response and buckling of metal matrix composite infinitely wide plates due to thermal shocks, 1A664
GILBERT, J: Aspects of tuning and clean intonation in reed instruments, 2A213
- Aeroacoustics of musical instruments, 11A244
GILBERT, JA: Characterization, production, and reconstruction of substrate guided wave holointerferograms, 10A852
GILBERT, JB: Studies of helical magnetohydrodynamic seawater flow in fields up to twelve teslas, 4A1101
GILBERT, JR: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
GILBERT, MG: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395
GILBERT, RB: Analytical model of progressive slope failure in waste containment systems, 6A543
- Shear strength of reinforced geosynthetic clay liner, 9A660
- Strain-softening behavior of waste containment system interfaces, 12A665
GILBERT, RI: Rotating crack FE model for reinforced concrete structures, 3A706
- Design of nonflexural members with normal and high-strength concretes, 7A932
GILBERT, RJ: Nonlinear stability of a defective cylindrical shell, 8A499
GILBERTSON, LG: Cancellous bone Young's modulus variation within the vertebral body of a ligamentous lumbar-spine: Application of bone adaptive remodeling concepts, 5A1363
GILCHRIST, BE: VLF wave experiments in space using a modulated electron beam, 1A277
GILCHRIST, LA: Two-part, viscoelastic foot model for use in gait simulations, 10A1473
GILCHRIST, MD: Fractographic analysis of delamination within multidirectional carbon-epoxy laminates, 5A646
- Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, 9A818
GILES, MB: Simultaneous viscous-inviscid coupling via transpiration, 1T1010
- Asymptotic analysis of mixing loss, 5A1071
GILHEANY, J: Control of the natural frequencies of NITINOL-reinforced composite beams, 1A882
GILL, AW: Complex mapped matrix methods in hydrodynamic stability problems, 3A965
GILL, GK: Nonlinear instabilities in superposed fluids in the presence of adsorption, 5A957
GILL, J: Experimental investigation of side-jet steering for supersonic and hypersonic missiles, 12A864
GILL, KF: Fuzzy neural controller design for use with a nonlinear system, 12A429
GILLES, J-P: Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, 10T459
GILLESPIE JR, JW: Literature review: Effects of hydrostatic pressure on the mechanical behavior of composite materials, 2A438
- Model to predict the through-thickness distribution of heat generation in cross-ply carbon-fiber composites subjected to alternating magnetic fields, 5A1168
- Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, 8A1106
- Elastic response of post- and *in situ* consolidated laminated cylinders, 11A1250
GILLESPIE, DRH: Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
GILLIAM, FT: Design analysis methodology for solar-powered aircraft, 1A919
GILMAN, A: Migration of salts in the unsaturated zone caused by heating, 2A1218
- Non-equilibrium imbibition of a porous block, 8T1313
- Influence of free convection on soil salinization in arid regions, 12A1346
GILMORE, JO: Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
GILOT, P: Geometric effects on mass transfer during thermogravimetric analysis: Application to reactivity of diesel soot, 1A1325

GIMPEL'SON, BI: Enhancement of heat transfer in steam generating tubes, 1A1280
GINDER, RB: Unsteady 3D flow in a single-stage transonic fan - Part II: Unsteady stator exit flow field, 5A1064
- Unsteady 3D flow in a single-stage transonic fan - Part I: Unsteady rotor exit flow field, 5A1063
GINER, L: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
GINGRAS, DF: Parameter estimation using multifrequency range-dependent acoustic data in shallow water, 10A347
GINSBERG, JH: Advanced Engineering Dynamics, Second Edition, 2R6
- Complex power, reciprocity, and radiation for submerged bodies, 5A270
- Forced harmonic response of a continuous system displaying eigenvalue veering phenomena, 5A100
- Fundamental tests of two modal strain energy methods, 10T134
GINZBOURG, I: Surface tension models with different viscosities, 4A1310
GIOIA, G: Two-dimensional structure of dynamic boundary layers and shear bands in thermoviscoplastic solids, 7A536
GIORDANO, CM: Universal formulation for the N-body problem, 12A96
GIORDANO, D: Two-temperature Saha equation: A misunderstood problem, 3T1012
GIORGI, C: Internal dissipation, relaxation property, and free energy in materials with fading memory, 4A454
GIOVANIGILI, V: Volume viscosity of dilute polyatomic gas mixtures, 4A892
GIOVINE, P: Dynamics and wave propagation in dilatant granular materials, 2A159
GIPSON, GS: Interrelated fundamental solutions for various heterogeneous potential, wave and advective-diffusive problems, 5A46
- Boundary Integral Equation formulation of a linearly layered potential problem, 5A1171
GIRARD, J: Effect of rotary arms on corotating disk flow, 1A997
GIRARD, L: Hyperbolicity analysis of multimoment plasma models: Application to auroral plasma outflows along magnetic field lines, 10A1187
GIRARDEY, A: Sizing procedure for photovoltaic refrigerating systems using a simple approach of the LLP calculation, 11A1235
GIRARDOT, D: Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, 4A466
GIRAUD, A: Consolidation around a volumic spherical decaying heat source, 3A1171
GIRAUD, P: Two planes balancing with dominant mode, 11A130
GIRAUDEAU, A: Two planes balancing with dominant mode, 11A130
GIRAULT, V: Local projection operator for quadrilateral FEs, 3A30
GIRCHENKO, AG: Numerical study of marginal effects in adhesive compounds (Russian), 3A488
GIRHAMMAR, UA: Shear capacity of notched prestressed hollow core slabs with circular voids, 3A790
GIRIMAJI, SS: Study of turbulent compustion and its modeling using a diffusion reaction equation model, 5A1222
GIRISH, DV: Surface integrity studies on shot-penned thermal-treated En 24 steel spur gears, 12A937
GIRLEA, F: Turbulent incompressible jet in a curved coflow, 12A1136
GIROIRE, J: New system of boundary integral equations for plates with free edges, 1A609
GIROUD, F: Solid-propellant fire in an enclosure fitted with a ceiling safety-vent, 4A1262
GISSINGER, GL: Evaluating systems of equations: Towards a formal approach, 7T75
GITTER, AJ: Energy transfer mechanisms as a compensatory strategy in below-knee amputee runners, 10A1468
GIUDICI, R: Laminar flow and forced convection heat transfer in plate-type monolith structures by a FE solution, 8A1073
GIURGIUTIU, V: Engineering feasibility of induced strain actuators for rotor blade active vibration control, 3A109
- Energy-based comparison of solid-state induced-strain actuators, 9T447
GIURIANI, E: Experimental study on stud shear connectors subjected to cyclic loading, 12A840
GIVI, P: Non-Gaussian scalar statistics in homogeneous turbulence, 11A989
GIVLER, SD: Supercritical droplet vaporization and combustion studies, 11A1294
GIVOLI, D: Minimization of thermoelastic deformation in space structures undergoing periodic motion, 1A272
- Solution of unbounded domain problems using elliptic artifical boundaries, 2A237
- Quadratic programming algorithms for obstacle problems, 10A521
GJELSVIK, A: Elastic composite beams, 8A479
GJERDE, T: Computationally efficient sub-band coding of ECG signals, 7T1409
GJONNES, L: Development of surface topography during cold rolling of twin-roll cast aluminum, 10A991
GLABISZ, W: Stability of simple discrete systems under nonconservative loading with dynamic follower parameter, 12A631
GLADFELTER, WL: Friction force microscopy as a probe of molecular relaxation on polymer surfaces, 4A847
GLADH, M: Embrittlement of a steam turbine rotor, 6A621
GLADKOV, SO: Theoretical study of micro and macroscopic processes developing in solid fuels during combustion, 3A1224
GLADKOVA, IV: Necessary conditions of partial controllability of the system solid-GyrodyneGuz IA: Study of the composite resistance under compression along two parallel structural cracks on the interfaces, 7A100
GLADWELL, GML: Functional Analysis: Applications in Mechanics and Inverse Problems - Solid Mechanics and Its Applications Series, Vol 41, 12R1
- Reconstruction of a mass-spring system from spectral data II: Experiment, 1A844
- Generic element matrices suitable for FE model updating, 5A26
- Mode shapes of the Helmholtz equation, 6A129
GLADWELL, I: Workshop on the method of lines for time-dependent problems, May 31-June 4, 1995, University of Kentucky, 10A42
GLADWIN, CJ: Higher-order methods for eigenvalues of second-order ordinary differential equations with boundary conditions, 9A125
GLAESE, RM: Derivation of zero-gravity structural control models from analysis and ground experimentation, 12T402
GLAISTER, P: Numerical scheme for steady, supercritical flows with boundary fitted coordinates, 6A893
- Efficient Riemann solver for open channel flows, 7A1044
GLAKPE, EK: Natural convection in a corrugated enclosure with mixed boundary conditions, 7A1213
GLASER, SD: Estimation of liquefaction potential by in situ methods, 3A574
GLASS, K: Adaptive stabilization and tracking control of electrically driven manipulators, 8A322
- New results on adaptive impedance control for dexterous manipulators, 10A487
GLASSER, D: Experimental and modeling study of fires in ventilated ducts - Part II: PMMA and stratification, 7A1331
GLASSMAN, I: Plateau region of composite propellants, 8A1273
GLATZMAIER, GA: Effects of curvature, aspect ratio and plan form in 2D and 3D spherical models of thermal convection, 3T1036
GLAV, R: Point-matching method on dissipative silencers of arbitrary cross-section, 7A356
- Null-field approach to dissipative silencers of arbitrary cross-section, 7A354
GLAVARDANOV, BV: Stability of a rigid sphere supported by a thin elastic column, 10A627
GLAZ, HM: Inviscid dynamics of 2D shear layers, 9A1168
GLAZEWSKI, M: Vegetation cover of earth structures (Polish), 3A589
GLAZUNOV, VA: Principles of the construction and analysis of spartial parallel-structure mechanisms, 3A845
GLEBOV, A: Numerical solution of transient heat conduction in a cylindrical section during quenching, 4A1201
GLEBOV, AG: Film boiling from a downward-facing curved surface in saturated and subcooled water, 4A1182
GLEBOV, IA: Application of physical methods for monitoring fatigue processes in rotor steels for estimating the residual service life of turbo-generator shaftings, 12T800
GLEGG, SAL: Perpendicular blade vortex interaction, 2A194
GLEINSER, W: Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, 4A904
GLENDINNING, P: Bifurcations and rotation numbers for maps of the circle associated with flows on the torus and models of cardiac arrhythmias, 6A70
GLIMM, J: Model for rate-dependent plasticity, 1A491
- Global solutions to the cylindrically symmetric rotating motion of isentropic gases, 12A1066
GLINKA, G: Calculation of elastoplastic strains and stresses in notches under multiaxial loading, 1A788
- Mean stress effects in multiaxial fatigue, 1A764
- Stress intensity factors and weight functions for a corner crack in a finite thickness plate, 10A775
- Elastic-plastic stress-strain calculation in notched bodies subjected to non-proportional loading, 12A743
GLINOV, AP: Analysis of the flexural vibrations of a beam due to the motion of a line load, 7A140
GLIZER, VY: Optimal planar interception with fixed end conditions: Closed-form solution, 7T391
GLOAGUEN, C: Multiple Rayleigh scattering of electromagnetic waves: A partial summation, 8A524
GLOGOWSKI, MJ: Performance comparisons of low-power arcjets, 4A1277
GLORIEUX, C: Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, 7A228
- Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attentuation measurements, 9A368
GLOTOV, GF: Vortical cord-shock interference in free-flow and nonisobaric jets, 10A1138
GLOVER, IC: Preconditioner for steady 2D turbulent flow simulation, 6A1001
GLOVER, KL: Functional knee brace alters joint torque and power patterns during walking and running, 8A1448
GLOVER, PWJ: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578
GLOVNEA, RP: Mapping shear stress in elastohydrodynamic contacts, 2T1057
GLOWACKA, E: Major earthquakes in Mexicali Valley, Mexico, and fluid extraction at Cerro Prieto Geothermal Field, 11A1345
GLOWINSKI, R: Computational approach to controllability issues for flow-related models - II: Control of 2D, linear advection-diffusion and Stokes models, 12T372
GLUMAC, NG: Diagnostics and modeling of strained fuel-rich acetylene-oxygen flames used for diamond deposition, 10A1359
GLUMB, RJ: Laser propulsion 10-kW thruster test program results, 4A1276
GLYNN, D: Forging sequence design using an expert system, 7A722
GLYNN, JE: Diffusion approximation for a network of reservoirs with power law release rule, 8T1351
GLYNN, PW: Diffusion approximation for a network of reservoirs with power law release rule, 8T1351
GLYNN, T: Causality and the complex modulus model of damping, 4T143
GNADLER, R: Vertical load-deflection behavior of a pneumatic tire subjected to slip and camber angles, 7A978
GNOFFO, PA: Mars Pathfinder six-dof entry analysis, 5A239
- Wake flow about the Mars Pathfinder entry vehicle, 5A721
- Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, 10A330
GOARD, J: Nonclassical symmetry analysis of nonlinear reaction-diffusion equations in two spatial dimensions, 5T1201
GOBEL, G: Dependent scattering effects in latex-sphere suspensions and scattering powders, 3A640
GOBIN, D: Double-diffusive convection in an inclined slot filled with porous medium, 4A1243
- Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, 7A1231
- Cooperating thermosolutal convection in enclosures - II: Heat transfer and flow structure, 11A1261
- Cooperating thermosolutal convection in enclosures - I: Scale analysis and mass transfer, 11A1260
GODBER, SX: New stereoscopic X-ray imaging technique using a single X-ray source: Theoretical analysis, 8A694
GODBOLE, PN: Soft missile impact on rigid targets, 2A170
GODBOLE, R: Device for the *in situ* determination of soil deformation modulus, 9A673
GODDARD, AJH: Potential for gas-cooled reactor development, 4A1352
GODDARD, JD: Simulation of the quasi-static mechanics and scalar transport properties of ideal granular assemblages, 2T1203
GODFREY, L: Numerical technique for bond correction in ultrasonic measurements, 10A861
GODIN, C: Electrochemical analysis of blood cell-substrate interactions under flow conditions, 2T1303
GODIN, YA: Exact solution to a problem of axisymmetric torsion of an elastic space with a spherical crack, 4A436
- Interaction between a penny-shaped crack and a spherical inclusion under torsion, 5A414
GODLER, I: Reduction of speed ripple due to transmission error of strain wave gearing by repetitive control, 9A1025
GODON, J-C: Modeling of normal and erosive burning rate of a hot double-base homogeneous propellant, 9A1325
GODOY , LA: Dynamic buckling of discrete structural systems under combined step and static loads, 7A676
GODOY, J: Role of negative statements on the subjective effects of traffic noise, 6A255
GODOY, LA: Selected and extended papers from the 4th Pan-American Congress of Applied Mechanics, January, 1995, Buenos Aires, Argentina, 2A4
- Higher-order sensitivity to imperfections in bifurcation buckling analysis, 4A567
- Finite elements for three-mode interaction in buckling analysis, 7A680
- Sensitivity of post-critical states to changes in design parameters, 9A616
GODRECHE, C: Hydrodynamics and Nonlinear Instabilities - Collection Alea-Saclay: Monographs and Texts in Statistical Physics 3, 7N23
GOEL, R: Emissions of CO and NO from a two stage porous media burner, 5A1226
GOEL, S: NO and N_2O formation during char combustion: Is it HCN or surface attached nitrogen, 7T1319
- Identification of parameter coupling in turbine design using neural networks, 11A1041
GOEL, SC: Special truss moment frames with Vierendeel middle panel, 1A1400
- Upgrading of braced frames for potential local failures, 10A934
GOEL, VK: Cancellous bone Young's modulus variation within the vertebral body of a ligamentous lumbar-spine: Application of bone adaptive remodeling concepts, 5A1363
GOELEVEN , D: Hemivariational inequality approach to nonconvex constrained problems in the theory of von Karman Plates, 5A504
GOELEVEN, D: Stability of elastic bodies with non-monotone multivalued boundary conditions of the quasi-differential type, 6A489
GOERING, DJ: Winter-time convection in open-graded embankments, 8A1077
GOERISCH, F: Methods for computing lower bounds to eigenvalues of self-adjoint operators, 5A70
GOETZ, RL: Modeling of thermal stresses and thermal cracking during heating of large ingots, 11A1244
GOETZBERGER, A: Two-stage concentrator permitting concentration factors up to 300X with one-axis tracking, 9A1418
GOFMAN, M: Torsion of shafts of keyedless joints, 9A1008
- Steady-state oscillations of composite spheres, 9A178
GOFRON, M: Equivalence of the driving elastic forces in flexible multibody systems, 1A87
GOGATE, SD: Economic parameters in the conceptual design optimization of an air-taxi aircraft, 1A870
GOGINENI, S: Fluid flow analysis in an axially rotating porous pipe with mass injection at the wall, 5A1298
GOGOLEK, PEG: Fundamental hydrodynamics related to pressurized fluidized bed combustion, 7A1328
GOGONIN, II: Experimental study of R-11 and R-12 film condensation on horizontal integral-fin tubes, 8A1137
GOGOS, G: Transient laminar natural convection heat transfer from isothermal spheres, 6A1080
- Laminar natural convection heat transfer from isothermal spheres, 8A1075
GOH, ATC: Neural-network modeling of CPT seismic liquefaction data, 6A533
GOH, CJ: Approximate pole placement for acceleration feedback control of flexible structures, 6T298
- H_∞ synthesis of robust current error feedback learning control, 12A335
GOHEEN, KR: Linear quadratic optimal model-following control of a helicopter in hover, 11A290
GOJKOVIC, M: Design of composite timber-concrete beams, 11T772
GOKCEN, T: Effects of freestream nonequilibrium on convective heat transfer to a blunt body, 10A1101
GOKHALE, AM: Estimation of bivariate size and orientation distribution of microcracks, 6A684
GOL'DENVEIZER, AL: Internal and boundary calculations of thin elastic bodies, 12A603
GOLABEK, A: Reliability model for combustion engine, 8T842
GOLAN, OM: Optimal planar interception with terminal constraints, 4A367
GOLAS, J: Limits of application of Kirchhoff's hypothesis in the theory of viscoelastic fibrous composite plates, 9A637
GOLAY, MW: Forced convection in-tube steam condensation in the presence of noncondensable gases, 11A1177
GOLBERG, M: Recent developments in the numerical evaluation of particular solutions in the BEM, 7A56
GOLD, VM: Concrete penetration by eroding projectiles: Experiments and analysis, 7A252
- Constitutive models for concrete penetration analysis, 8A189
GOLDAK, J: Estimated error bounds for FE solutions of elliptic boundary value problems, 12A17
GOLDEN, JM: Inertial effects in a steady-state normal viscoelastic contact problem, 3A452
- Viscoelastic moving-contact problem with inertial effects included, 7A522
GOLDENBERG, AA: Asymptotically stable robust control of robust manipulators, 11A389
- Variable structure hybrid control of manipulators in unconstrained and constrained motion, 12A458
GOLDFARB , YR: Three-dimensional analysis of stress and strain transmission through line joints of spatial linkage of plates, 8A489
GOLDMANN, LS: Model for deformation of solder bumps from ramp loading, 8A486
- Statistical model for the inherent tilt of flip-chips, 8A843

GOLDREIN, HT: Automated fine grid technique for measurement of large-strain deformation maps, 3A727

GOLDSCHMIT, MB: Three field element via augmented Lagrangian for modeling bulk metal forming processes, 6A33

GOLDSHTEIN, A: Mechanics of collisional motion of granular materials - Part 3: Self-similar shock wave propagation, 12A1334

GOLDSMITH, AAJ: Application of FEs to the stress analysis of articular cartilage, 7A1405

GOLDSMITH, HL: Effect of hematocrit of adenosine diphosphate-induced aggregation of human platelets in tube flow, 2T1293

GOLDSMITH, W: Analytical model for tumbling projectile perforation of thin aluminum plates, 5A191

- Impact on aluminum plates by tumbling projectiles: Experimental study, 5A196

GOLDSTEIN, BS: Skin response to mechanical stress - Adaptation rather than breakdown: A review of the literature, 4A1364

GOLDSTEIN, D: Direct numerical simulation of turbulent flow over a modeled riblet covered surface, 4A1078

GOLDSTEIN, DB: Experimental and numerical study of hypersonic forward-facing cavity flow, 12A1071

GOLDSTEIN, RJ: Fluid Mechanics Measurements, Second Edition, 10N27

- Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part II: On the exposed surface, 5A1159

- Heat (mass) transfer and film cooling effectiveness with injection through discrete holes - Part I: Within holes and on the back surface, 5A1158

- Influence of secondary flows near the endwall and boundary layer disturbance on convective transport from a turbine blade, 5A1142

- Pressure die casting: A model of vacuum pumping, 11A606

- Film cooling of the gas turbine endwall by discrete-hole injection, 11A1040

GOLDSTEIN, RV: Method for crack kinetics calculations in a medium with volume gas evolution, 6A682

GOLDSTEIN, SA: Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, 10A1466

GOLDSTICK, TK: Nonlinear viscoelasticity and the thrombelastograph- I; Studies on bovine plasma clots, 6A1334

GOLEBIOWSKA-ROZANOW, M: Free vibration of an axially-loaded prestressed planar frame, 7A181

GOLECKI, JJ: Extension fracture due to collinear cracks, 10A772

GOLIA, UM: Effects of two-dimensionality on pipe transients modeling, 6A877

GOLIK, WL: Adaptive boundary collocation method for linear PDEs, 1A55

GOLITSYN, GS: Convection in Rotating Fluids - Fluid Mechanics and Its Applications Series, 2R50

GOLL, C: Microvalves with bistable buckled polymer diaphragms, 10T462

GOLLAHALLI, SR: Nitric oxide emission from pulverized coal blend flames, 5A1229

- Burner wake stabilized gas jet flames in cross-flow, 7A1311

- Application of noncircular primary-air inlet geometries in the inshot burners of residential gas furnaces, 8A1281

GOLLAPUDI, S: Sapphire optical fiber-based interferometer for high temperature environmental applications, 1A1298

GOLLWITZER, S: Continuum sensitivity method for reliability-based structural design and optimization, 3A754

GOLNARAGHI, MF: Experimental implementation of the internal resonance control strategy, 10A883

- New vibration regulation strategy and stability analysis for a flexible gyroscopic system, 12A407

GOLOTINA, LA: Models of the initiation of macroscopic cracks in particlate elastomeric composites, 3A700

GOLOVACHOV, YP: Numerical Simulation of Viscous Shock Layer Flows - Fluid Mechanics and Its Applications, Vol 33, 11R40

GOLOVCHAN, VT: Macroscopic tensor of elastic moduli of porous medium of regular structure of noncompressible metal, 7A7

- Complete systems of double- and triple-periodical frequency solutions and equations of the elasticity theory in spherical coordinates, 9A523

GOLOVIN, NN: Thermomechanical model of nonlinear deformation of carbon-carbon composites with 3D reinforcements, 5T1195

GOLOVKIN, MA: Orthogonal vector transformations and fundamental properties of the Navier-Stokes and Euler equations for incompressible vortex fluid flows, 10T1067

GOLRIZ, MR: Analytical-empirical model to predict heat transfer coefficients in circulating fluidized bed combustors, 3A1259

GOLSE, F: Numerical analysis of the shear and thermal creep flows of a rarefied gas over the plane wall of a Maxwell-type boundary on the basis of the linearized Boltzmann equation for hard-sphere molecules, 10T1112

GOLSHAN EBRAHIMI, N: Effects of molecular weight distribution on dynamic viscoelasticity and biaxial extensional flow behavior of polystyrene melts, 4A886

GOLSHTEIN, E: Convective instabilities in rarefied gases by direct simulation Monte Carlo method, 10A1116

GOLUB, GP: Asymmetrical strain of orthotropic shells of revolution of nonlinear elastic base, 9A590

GOLUB, VP: Estimating limiting state under asymmetrical load and complex stressed state, 7A785

- Estimating time of viscous failure under creep, 7A792

- Nonlinear 1D continuum damage theory, 12A733

GOLUBEV, NF: Fatigue-energy model of exhaust valve erosion, 6A879

- Analysis of the reliability of internal combustion engine exhaust valves, 9A1027

- Fundamentals of the service life design of diesel exhaust valves, 12A985

GOLUBEV, VB: Free convective heat and mass transfer in processing polymer materials, 5A1147

GOLUBEVA, TV: Statistical estimation of seismic hazard parameters: Maximum possible magnitude and related parameters, 12A1387

GOLUBIEWSKI, M: Directed graphs as the generators of the whole set of gerber beams, 2A465

GOLUBKIN, VN: Asymptotic theory of 3D hypersonic flow past a wing, 10A1092

GOMAA, S: Computer-aided multiscale modeling tools for composite materials and structures, 4A531

- Unstructured multigrid method for shells, 9A611

GOMAN, M: Analysis of the asymptotic stability region boundary for a dynamic system, 10A87

GOMATAM, J: Eikonal approximation to excitable reaction-diffusion systems: Travelling non-planar wave fronts on the plane, 6A1188

GOMBERG, J: Constraints on the June 29, 1992, Little Skull Mountain, Nevada, earthquake sequence provided by robust hypocenter estimates, 2A1229

- Accuracy of seismic estimates of dynamic strains: An evaluation using strainmeter and seismometer data from Pinon Flat Observatory, California, 11A1382

GOMES DE ALMEIDA, F: Decentralized adaptive control of a directly driven hydraulic manipulator - Part 1: Theory, 2A310

- Decentralized adaptive control of a directly driven hydraulic manipulator - Part 2: Experiment, 2A311

GOMES, SM: Convergence estimates for the wavelet Galerkin method, 7A60

GOMEZ, JB: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578

GOMEZ, JC: Response of a viscous incompressible fluid cylinder to an incident plane compressional elastic wave, 9A313

GOMEZ, MO: Exact solution for contaminant transport with nonlinear sorption, 6A1185

GOMEZ-BLANCO, R: Minimum induced drag of a three-surface ultra high capacity aircraft, 2A1034

GOMEZ-VALDES, J: Massively parallel processing in coastal ocean circulation model, 4A1349

GONCALVES FILHO, OJA: Closed-form solution for the isothermal creep rupture behavior of a two-bar structure under constant load, 1A768

GONCALVES, PB: Free vibrations of cylindrical tanks, 2A192

GONCHAROV, AA: Surface damage under dynamic loading, 12T936

GONCHARUK, NV: Tribological properties of titanium-nickel compound at dry friction, 6A787

GONCLAVES, PB: Computational strategy for determining bifurcation diagrams for nonlinear oscillating systems, 8A79

GONG , JINXIN: New algorithm for solving the structural reliability index (Chinese), 9A903

GONG , WEIGUO: In-process monitoring of tool damage by active method: Behavior of damping ratio with tool wear development (Japanese), 7A805

GONG, DAH-CHUAN: Towards a manufacturing metamodel, 7A487

GONG, HAIQING: Experimental investigations on tension and compression properties of an electrorheological material, 9A1040

GONG, HANSHENG: Study on fault diagnosis method based on reliability theory (Chinese), 6A355

GONG, R: Bulk flow pulsations and film cooling - II: Flow structure and film effectiveness, 11A1147

- Bulk flow pulsations and film cooling - I: Injectant behavior, 11A1146

GONG, SW: Transient stresses generated by low velocity impact on orthotropic laminated cylindrical shells, 1A572

GONG, SX: Micromechanics modeling of microcrack toughening in ceramic materials, 3A712

GONG, W: Turbulent boundary-layer flow over fixed aerodynamically rough 2D sinusoidal waves, 10A1177

GONG, X: Fracture mechanics for the design of ceramic multilayer actuators, 6A638

GONG, YE: Solutions for a class of equations occurring in research of arc column instability (Chinese), 8A847

- Numerical method for solving a kind of system of nonlinear equations in two-stream instability of plasma (Chinese), 11A1012

GONG, ZHEN-XIANG: Simultaneous iteration procedure for the FE solution of the enthalpy model for phase change heat conduction problems, 1A1265

- New solar receiver thermal store for space-based activities using multiple composite phase-change materials, 3A1163

- Enhancement of energy charge-discharge rates in composite slabs of different phase change materials, 5A1169

GONSALVES, P: Hybrid fuzzy logic flight controller synthesis via pilot modeling, 3T388

GONTIER, C: Large displacement analysis of a beam using a CAD geometric definition, 2A466

GONZALEZ DE SANTOS, P: Generation of discontinuous gaits for quadruped walking vehicles, 1A422

GONZALEZ, AM: Determination of unknown coefficients of a semi-infinite material through a simple mushy zone model for the two-phase Stefan problem, 12A1243

GONZALEZ, E: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279

GONZALEZ, J: Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, 12A1229

GONZALEZ, JA: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769

GONZALEZ, O: Leg stiffness and stride frequency in human running, 6A1327

GONZALEZ, R: Limnology, a concept review, 10T1113

GONZALEZ, RV: Development and evaluation of a musculoskeletal model of the elbow joint complex, 9A1435

GONZALEZ-PINTO, S: Iterative schemes for three-stage implicit Runge-Kutta methods, 2A38

GONZATO, G: Detecting low-dimensional chaos in time series of finite length generated from discrete parameter processes, 7A107

GOO, JH: Monte-Carlo simulation of turbulent deposition of charged particles in a plate-plate electrostatic precipitator, 12A1337

GOOD, AC: Joint operations planning for the mid-course space experiment satellite, 5A237

GOOD, JK: Importance of traction in web handling, 5A772

GOODALL, AJ: Use of carrier frequency shifting for the elimination of phase discontinuities in Fourier transform profilometry, 2A52

GOODE, CD: Large reinforced concrete cylinders under external pressure, 11A757

- Large steel-concrete composite cylinders under external pressure, 11A758

GOODER, JL: Compressive behavior of a titanium metal matrix composite with a circular hole, 1A810

GOODMAN, RE: Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992, 12N25

- Block theory and its application, 2A532

GOODNO, BJ: Testing of energy dissipating cladding connections, 7A1382

GOODRICH, KH: Batch simulation environment for integrated batch and piloted air combat analysis, 5A999

GOODSON, KE: Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, 3A1166

- Thermal conduction in nonhomogeneous CVD diamond layers in electronic microstructures, 11A1195

GOODWIN, DG: Diagnostics and modeling of strained fuel-rich acetylene-oxygen flames used for diamond deposition, 10A1359

GOODWIN, GC: Controller design for partial decoupling of linear multivariable systems, 8A300

- Sensitivity limitations in nonlinear feedback control, 11T268

GOODWIN, MJ: Steady load-carrying capacity of recessed hydrodynamic bearings, 4T1124

- Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, 7T1186

- Novel variable impedance hydrodynamic oil-film bearing - Part I: Theoretical modeling, 7A1185

GOODWIN, RT: Interactions of two jets in a channel: Solution multiplicity and linear stability, 11A976

GOODWIN-JOHANSSON, SH: Integrated force arrays: Theory and modeling of static operation, 5A350

GOON'KO, YP: Estimation on integral aerogasdynamics of hypersonic scramjet-powered aircraft, 12T1332

GOOSSEN, KW: Fabrication of a mechanical antireflection switch for fiber-to-the-home systems, 11T619

GOOSSENS, M: Numerical simulations of MHD wave excitation in bounded plasma slabs, 10A1189

GOOVAERTS, MJ: Proceedings of the Sixth International Congress on Computational and Applied Mathematics, July 1994, Leuven, Belgium, 11A70

GOPAL, P: Hybrid phenolic friction composites containing Kevlar pulp - Part I: Enhancement of friction and wear performance, 12A891

- Hybrid phenolic friction composites containing Kevlar pulp - Part II: Wear surface characteristics, 12A929

GOPALARATNAM, VS: Characterization of flexural toughness in fiber reinforced concretes, 1A531

GOPALSAMY, K: Chaos in an anharmonic oscillator, 5A89

GOPINATH, A: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3, 3N34

GORAJ, Z: Review of the influence of high angle of attack aerodynamics on aircraft dynamic stability, 1A1121

- Classical panel methods: A routine tool for aerodynamic calculations of complex aircraft configurations: From concepts to codes, 3A995

- Calculation of the wing aerodynamic characteristics with ground effect using panel methods, 3A994

GORAN, D: Comparative analysis of the different methods for speed control of separately excited DC motor, 1A389

GORANSSON, P: Acoustic FE formulation of a flexible porous material: A correction for inertial effects, 2A233

GORBENKO, AN: Dynamics of a self-balancing unit in a multi-disk rotor, 6T75

GORBUNOV, VA: Calculation of force parameters of shaping when bending thin-walled profile parts, 11A583

GORBUROV, VI: Friction losses in two-phase flow taking into account relative motion of phases, 1A1034

GORCE, P: Design methodology approach for flexible grippers, 11A365

GORDEYEV, YN: Hydraulic fracture in a transversely-isotropic poroelastic medium, 7A846

GORDIENKO, VI: Use of transition functions in the problems of nonstationary hydroelasticity for the systems of cylindrical shells, 7A290

GORDNIER, RE: Pitch rate and pitch-axis location effects on vortex breakdown onset, 2A1021

- Compressibility effects on vortex breakdown onset above a 75-degree sweep delta wing, 2A1011

- Origin of computed unsteadiness in the shear layer of delta wings, 2T1036

GORDO, JM: Compressive strength of rectangular plates under biaxial load and lateral pressure, 5A527

- Collapse strength of rectangular plates under transverse compression, 7A658

GORDON, JL: Current Topics in Computational Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N2

GORDON, JM: Simple string construction method for tailored edge-ray concentrators in maximum-flux solar energy collectors, 9A1417

- Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design, 11A1229

GORDON, MK: Perturbed scale-invariant initial value problems in 1D dynamic elastoplasticity, 3A180

GORDON, N: Bayesian state estimation for tracking and guidance using the bootstrap filter, 4T339

GORDON, SJ: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082

GORDON, TJ: Application of Learning Automata to controller design in slow-active automobile suspensions, 1A407

GORDON, WA: Use of multiple flow fields for continuous solutions from upper-bound analysis, 3A604

GORE, JP: Experimental realization of premixed methane-air cylindrical flames, 1A1343

- Radiometric measurements of wall temperatures in the 800 K to 1150 K range for a quartz radiant heating tube, 3T1132

- Measurements of radiative properties of cellular ceramics at high temperatures, 6A1133

- Study of radiant tube flame structure and NO_x emissions, 7A1324

- NO_x emission and major species concentrations in partially premixed laminar methane-air co-flow jet flames, 10A1367

GORE, RA: Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf, 1N30

GORECKI, J: Nonequilibrium velocity distribution of reactive foreign gas: Simulation and phenomenology, 9A1035

- Nonequilibrium spatial correlations of reagents in model reaction diffusion system, 9T1301

GORENBUKH, PI: Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094

GORG, A: Parametric representation of embankments, 2T525

GORIN, AV: Convective heat transfer from a horizontal cylinder in a porous medium and a narrow slot, 10A1268

GORIN, SV: Theoretical-experimental method for determining the stiffness and dissipative characteristics of elastodamping elements in the frequency domain, 10A137
GORLA, RSR: Unsteady natural convection from a heated vertical plate in micropolar fluid, 1A1185
- Stretching a surface in a rotating power-law fluid, 5T881
- Mixed convection in an axisymmetric stagnation flow of micropolar fluid on a vertical cylinder, 8A1095
- Mixed convection boundary layer flow on a continuous flat plate with variable viscosity, 8A1094
- Nonsimilar boundary layer on a moving wall, 10A1128
GORMAN, DG: Symmetrization of equations of motion for coupled systems subject to fluid-structural interactions, 3A228
- Vibration analysis of cylindrical shells in contact with an annular fluid region, 4A289
- Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - II: Empirical modal analysis, 10A312
- Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - I: Theoretical study, 10A311
GORMAN, DJ: Accurate free vibration analysis of the completely free rectangular Mindlin plate, 7A151
- Accurate free vibration analysis of clamped antisymmetric angle-ply laminated rectangular plates by the Superposition-Galerkin method, 12A57
GORMAN, MR: Application of normal mode expansion to acoustic emission waves in finite plates, 12T273
GORMAN, RM: Sediment transport near the break point associated with cross-shore gradients in vertical eddy diffusivity, 7T1049
GORODETSKIY, AA: US and Russian thermal control coating results in low Earth orbit, 7A992
GORODOV, GF: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
GOROKHOVSKAYA, NK: Wear behavior of natural rubber-containing nickel-alloy coatings, 6A808
GOROKHOVSKII, GA: Wear behavior of natural rubber-containing nickel-alloy coatings, 6A808
GOROSHIN, S: Quenching distance of laminar flame in aluminum dust clouds, 9A1313
GORR, GV: The dynamics of the precessional motions of a system of two rigid bodies in a gravitational field, 2A524
GORRES, J: Trajectories of burning coal particles in highly swirling reactive flows, 5A1262
GORSHKOV, AG: Nonstationary waves radiated by a spherical shell in an elastic half-space, 7A224
- Application of the BEM to the problem of body penetration into fluid, 10A53
GORSKI, JJ: Vorticity transport analysis of turbulent flows, 5A973
- Modeling of the turbulent enstrophy equation, 11A1005
GORYACHEV, AP: Contact of elastic bodies with thin viscoelastic coatings under conditions of rolling or sliding friction, 7A504
GORYACHEVA, IG: Contact of elastic bodies with thin viscoelastic coatings under conditions of rolling or sliding friction, 7A504
GOSCIK, J: Burnout of counter-current two-phase flow in a horizontal channel (Polish), 9A1180
- Analysis of transport phenomena occurring in rectangular latent heat storage units - Part III: Description of the storage cycle, 9A1265
GOSHAWK, JA: Flow of continuous fiber-reinforced composites in steady shear, 9A532
- Use of interferometry of measure flow characteristics of an oscillating draining film, 12A1037
GOSHIMA, T: Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, 7A812
GOSMAN, AD: Prediction of compressible subsonic flow through an axisymmetric exhaust valve-port assembly, 4A987
GOSS, LP: Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology combustor, 5A1240
GOSSARD, DC: Synthesis of optimal shape and topology of structures, 8A838
GOSSELIN, CM: Simulation and computer-aided kinematic design of three-dof spherical parallel manipulators, 4A859
- Kinematic and static analysis of a planar two-dof parallel manipulator (German), 6A360
- Parallel computational algorithms for the kinematics and dynamics of planar and spatial parallel manipulators, 9A467
- Determination of the workspace of planar parallel manipulators with joint limits, 12A443
GOSSWEILER, CR: Fast-response probes - Part 1: Technology, calibration, and application to turbomachinery, 5A1077
- Fast-response probes - Part 2: Aerodynamic probe design studies, 5A1078
GOSTEV, EA: Experimental determination of mixing length in the buffer layer of a turbulent boundary layer, 8T940
GOSWAMI, DY: Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL, 1N36
- Terrestrial solar-pumped iodine gas laser with minimum threshold concentration requirements, 6A1298
- Photocatalytic treatment of wastewater from 5-fluorouracil manufacturing, 7A1396
- Feasibility of an iodine gas laser pumped by concentrated terrestrial solar radiation, 11T1427
GOSWAMI, S: Geometrically nonlinear analysis of laminated composite stiffened shells, 5A511
- Finite element free vibration analysis of laminated composite stiffened shell, 6A149
GOSWAMI, T: Dwell sensitivity - Part I: Behavior and modeling, 9A751
GOTLIB, VA: Model of brittle-dominated wear due to delayed fracture: Vertical crack growth, 3A646
GOTO, H: Micro scanning optical sensor (Japanese), 9T865
GOTO, K: Study on countermeasure for liquefaction of reclaimed ground by coal fly ash (Japanese), 7A698
- Lapping system for ultra-precision bearing balls (Japanese), 12A702
GOTO, M: Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, 4A1184
- Crack growth arresting property of a hole and Brinell-type dimple, 8A567
GOTO, S: Development of precooling method using frozen sand (sandprecool method) (Japanese), 4T1206
- Structure formation and strength development at early stage of hydration of rapid hardening portland cement (Japanese), 4A481
- Liquefaction resistance of silty sand based on in situ frozen samples, 9T667
GOTO, T: Boundary integral equation method for nonlinear heat conduction problems with temperature-dependent material properties, 5A1166
- Analysis of transient heat conduction with phase changes by a boundary integral equation method, 11A1190
GOTO, Y: Validity of classification systems of semirigid connections, 4A872
- Single point diamond turning of chalcone organic nonlinear optical crystals for second harmonic generation (Japanese), 4T660
- Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, 5T1293
- Effects of cardiac infarction on realistic 3D left ventricular blood ejection, 9A1447
- Ultimate behavior of tie plates at high-speed tension, 10A917
GOTOH, H: Numerical simulation of surface-sheared-sand layer (Japanese), 3A889
GOTOH, K: Evaluation of physical aging on creep deformation of epoxy resin (Japanese), 6A624
GOTOH, M: Growth behavior of sawtoothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), 9A507
GOTOU, E: In-process measurement of wear of abrasive grain - 2nd Report: Binary image-acquisition system for wear flat of cutting edge (Japanese), 7A1004
GOTSIS, AD: Relaxation of shear and normal stresses of nematic liquid crystalline polymers in squeezing and shear flows, 6A867
GOTSULYAK, EA: Study of self-organization in dynamics of shells (Russian), 3A137
GOTTESMAN, T: Skin-stiffener interface stresses in tapered composite panel, 4A527
GOTTLIEB, D: Gibbs phenomenon V: Recovering exponential accuracy from collocation point values of a piecewise analytic function, 3A54
- Gibb's phenomenon - III: Recovering exponential accuracy in a sub-interval from a spectral partial sum of a piecewise analytic function, 7A64
- Nonlinear Galerkin method: The two-level Fourier-collocation case, 10A57
GOTTLIEB, HPW: Nonlinear, non-planar transverse free vibrations of a constant-tension string, 10A165
GOTTLIEB, J: Determination of the density distribution of a vibrating body, 12T129
GOTTLIEB, JJ: Interactions between shock wave and hypersonic laminar boundary layer near convex corner, 5A932
GOTTLIEB, O: Parameter identification of nonlinear ocean mooring systems using the Hilbert transform, 8A149
GOTTWALD, JA: Routes to escape from an energy well, 4A127
- Nonstationary transition through resonance, 10A111
GOTZ, IG: Criteria for the disappearance of the mushy region in the Stefan problem, 4A1207
GOU , ZHIJIAN: Studies on differential diagnosis of chatter caused by phase-delay of dynamic cutting force (relative to vibration) (Chinese), 3A166
GOUDREAU, S: Effect of lubricant in electrical conductor fretting fatigue, 4A682
GOUESBET, G: Heat and mass transfer coupling between vaporizing droplets and turbulence using a Lagrangian approach, 1A1244
GOUIN, H: Stability of spherical isothermal liquid-vapor interfaces, 1A1036
GOULAS, A: Boundary layer transition induced by a von Karman vortex street wake, 11A541
GOULD, RW: Double pass retroreflection for corrosion detection in aircraft structures, 6A694
GOUNARIS, GD: Crack identification in beams by coupled response measurements, 3A717
GOURDEAU, R: Dual conformance index-based robotic arm placement and adaptation, 8A363
GOURICHON, L: Devolatilization of coal particles in a flat flame: Experimental and modeling study, 1A1334
GOUSSEV, OA: Local bending moment as a measure of adhesion: The blister test, 11A846
GOUSTOURIDIS, D: Miniature self-aligned pressure sensing element, 10A463
GOUVEIA, BPPA: Fracture predicting in bulk metal forming, 7A720
GOVARDHAN, S: Infrared sensing for on-line weld geometry monitoring and control, 5A385
GOVINDA RAO, HS: Integration of polynomials over linear polyhedra in Euclidean 3D space, 4A83
- Integration of polynomials over an arbitrary tetrahedron in Euclidean 3D space, 7A38
GOVINDARAJAN, G: Experimental study of the discharge coefficient of pipe perforations, 3A877
GOVINDARAJAN, R: Stability of spatially developing boundary layers in pressure gradients, 4A1024
GOVINDARAJU, RS: Characterization of preferential flow paths in compacted sand-clay mixtures, 1A692
GOVINDJEE, SANJAY: Anisotropic modeling and numerical simulation of brittle damage in concrete, 4A689
GOVINDSWAMY, K: Finite element modeling of frequency-dependent and temperature-dependent dynamic behavior of viscoelastic materials in simple shear, 4A8
GOWAYED, YA: Modification and application of a unit cell continuum model to predict the elastic properties of textile composites, 6A454
GOWDA, BHL: Draining of liquid from tanks of square or rectangular cross sections, 10T1402
- Comparative study of the influence of curvature on the boundary layers and on the inner region of wall jets, 11A942
GOYAL, G: Simulation of the behavior of rich hydrogen-air flames near the flammability limit, 2A1179
GOYAL, KC: Transient response of a two-lobe journal bearing lubricated with non-Newtonian lubricant, 4T1123
GOYEAU, B: Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, 7A1231
GOYON, O: Multilevel schemes for solving unsteady equations, 11A44
- High-Reynolds number solutions of Navier-Stokes equations using incremental unknowns, 12A1059
GOZ, MF: Transverse instability of plane wavetrains in gas-fluidized beds, 4A1072
GRABIEC-MIZERA, T: Influence of raised temperatures on strength and deformability of concrete, 1A906
GRABINER, MD: Measures of paraspinal muscle performance do not predict initial trunk kinematics after tripping, 10A1472
GRABMULLER, H: Finite displacements of curved annular elastic membranes without wrinkling, 1A604
GRABOT, B: Conceptual framework for shopfloor production activity control, 2A335
GRABSKI, J: Dynamic analysis of a machine model with time-varying mass, 3A83
GRACE , JL: Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882
GRACE, JM: Droplet motion in an electrohydrodynamic fine spray, 7A1139
GRACE, JR: Fundamental hydrodynamics related to pressurized fluidized bed combustion, 7A1328
GRACEWSKI, SM: Behavior of a gas cavity impacted by a weak or strong shock wave, 8A207
GRACIA, L: Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, 1A54
- Nonlinear transformation algorithm for the integration of the singular kernels in 3D BEM for elastostatics, 11A54
GRADETSKII, AV: Digitally controlled invariant active vibration-isolation system for microgravity protection, 7A397
GRADY , PL: Acoustical characteristics of fabrics in high-intensity ultrasound, 12A289
GRADY, PL: Acoustic properties of fabrics in low-intensity ultrasound, 12A288
GRAEF, JR: Asymptotic behavior of solutions of impulsively damped nonlinear oscillator equations, 12A109
GRAESSER, DL: Damage tolerance predictions for stiffened composite panels - Part I: Strain field predictions, 11A676
- Damage tolerance predictions for stiffened composite panels - Part II: Application of a failure criteria, 11A675
GRAESSLEY, WW: Tests of constitutive equations for entangled polymers based on planar-extension flow histories in a periodically-constricted channel, 9A1043
GRAF, WH: Bed-shear stress in non-uniform and unsteady open-channel flows, 4T916
- Velocity and turbulence distribution in unsteady open-channel flows, 8T873
GRAFAREND, EW: Gravitational field of topographic-isostatic masses and the hypothesis of mass condensation - II: The topographic-isostatic geoid, 8A1329
GRAHAM, AL: Improved mechanical properties in hydrodynamically-aligned, short-fiber composite materials, 8A454
- Stability of some shear flows for concentrated suspensions, 9A1042
GRAHAM, G: Laser phased array measurement of simulated solidified weld penetration depth, 11A835
GRAHAM, GAC: Crack and Contact Problems for Viscoelastic Bodies, 2N25
- Inertial effects in a steady-state normal viscoelastic contact problem, 3A452
- Viscoelastic moving-contact problem with inertial effects included, 7A522
- Certain two-punch problems for an elastic layer, 11A424
GRAHAM, JK: Initiation of the pre-flame reaction of n-heptane in a motored engine, 7A1344
GRAHAM, K: Control issues for rigid-in-plane helicopter rotors, 9A1243
GRAHAM, KM: Experimental and theoretical studies of mist jet impingement cooling, 11A1099
GRAHAM, L: Vortex wakes and jets, 7A1106
GRAHAM, LJW: Examination of the flow around a hot-wire probe using particle image velocimetry, 4A1127
GRAHAM, N: Frequency-wavenumber structure of the tropical ocean-atmosphere system, 4T1341
GRAHAM, P: Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806
GRAHAM, WR: Influence of curvature on the sound radiated by vibrating panels, 1A286
- Boundary layer induced noise in aircraft - Part II: The trimmed flat plate model, 10A343
- Boundary layer induced noise in aircraft - Part I: The flat plate model, 10A342
GRAHAM-JONES, PJ: Expert and knowledge-based systems in failure analysis, 2A288
GRAICHEN, F: Patient monitoring system for load measurement with spinal fixation devices, 7A1413
GRAMA, P: Affine fractal interpolation functions and wavelet-based FEs, 6A30
GRANAT, MH: Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, 6A1323
GRANATA , KP: EMG-assisted model of trunk loading during free-dynamic lifting, 2A1289
GRANCHER, MS: Heat and mass transfer coupling between vaporizing droplets and turbulence using a Lagrangian approach, 1A1244
GRANDCHAMP, J-P: Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, 10T459
GRANDHI, RV: Intervening variables and constraint approximations in safety index and failure probability calculations, 2A742
- Improved two-point function approximations for design optimization, 2A724
- General purpose procedure for reliability based structural optimization under parametric uncertainties, 3A757
- Multivariate Hermite approximation for design optimization, 8A717
- Safety index calculation using intervening variables for structural reliability analysis, 10A888
- Reliability based structural analysis and optimization in X window environment, 11A734
- Computer aided preform design in forging using the inverse die contact tracking method, 12A677
GRANDPEIX, J-Y: Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, 11A1213
GRANET, I: Fluid Mechanics, Fourth Edition, 6N29
- Thermodynamics and Heat Power, Fifth Edition, 5N31
GRANGER, LP: Effect of composition on basic creep of concrete and cement paste, 3A666
GRANGER, S: Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, 1T991
GRANKIN, VA: Friction losses in two-phase flow taking into account relative motion of phases, 1A1034
GRANT, I: Application of an in-line, stereoscopic, PIV system to 3-component velocity measurements, 1A1150
- Investigation of the performance of multilayer, neural networks applied to the analysis of PIV images, 1T1151
- Examination of vortex deformation during blade-vortex interaction, 11A1068
GRANT, JR: Penetration of a blade into a vortex core: Vorticity response and unsteady blade forces, 7A1057

GRAPE, JA: Failure in carbon-polyimide laminates under biaxial compression, 2A648
GRAS, R: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
GRASSI, M: Atomspheric research with the small expendable deployer system: Preliminary analysis, 7A988
GRASSI, W: Electric field effects on film boiling on a wire, 12A1231
GRASSIA, P: Computer simulations of polymer chain relaxation via Brownian motion, 8A860
GRASSIE, S: Dynamic modeling of concrete railway sleepers, 4A195
GRASSO, F: Analysis of laminar near-wake hypersonic flows, 5A897
GRATT, HJ: Feedback linearization autopilot design for the advanced kinetic energy missile boost phase, 3A369
GRATTON, LJ: Influence of morphology upon two-temperature statements for convective transport in porous media, 8A1113
GRAUER, R: Finite time singularities in ideal fluids with swirl, 4A932
GRAUR, IA: Rarefied gas flow simulation based on quasigasdynamic equations, 4A1001
GRAVER III, DP: Experimental model investigation of the opening of a collapsed untethered pulmonary airway, 5A1375
GRAVESEN, P: New piezoresistive pressure transducer principle with improvements in media compatibility, 10T467
GRAVSETH, IJ: Space-debris identification using optical calibration of common spacecraft materials, 10A331
- Mass-diameter and characteristic-length ratio functions for orbital debris, 12A270
GRAVVANIS, GA: Explicit sparse unsymmetric FE solver, 7A36
GRAY, CW: Scanning horizon sensor attitude correction for earth oblateness, 11T234
GRAY, GJ: Genetic algorithm automated approach to the design of sliding mode control systems, 10A426
GRAY, GL: Chaos in a spacecraft attitude maneuver due to time-periodic perturbations, 12A268
GRAY, LJ: Evaluation of the anisotropic Green's function in 3D elasticity, 7A516
- Hypersingular residuals: A new approach for error estimation in the BEM, 12A54
GRAY, TGF: Analysis of stress concentration factors for stepped plates based on a crack tip stress intensity approach, 11A421
GRAY, WG: Boundary conditions in shallow water models: An alternative implementation for FE codes, 9A39
GRAYMAN, WM: Explicit mathematical models of distribution storage water quality, 2A1277
GRAYSON, GD: Coupled thermodynamic-fluid-dynamic solution for a liquid-hydrogen tank, 5T1242
GRAZZINI, G: Measuring thermal properties with the parallel wire method: A comparison of mathematical models, 10A1298
GREATED , CA: Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, 5T943
GREATED, C: Simulation of wave motion using a lattice gas model, 7A276
GREATRIX, DR: Internal ballistic model for spinning star-grain motors, 11A1309
GRECO, M: Effects of two-dimensionality on pipe transients modeling, 6A877
GREEN, ER: Measurement and prediction of time domain waveforms in fiber-reinforced laminates, 5A271
- In-plane and interlaminar shear properties of carbon-epoxy laminates, 5A473
GREEN, LL: Sensitivity derivatives for advanced CFD algorithm and viscous modeling parameters via automatic differentiation, 11T910
GREEN, M: Continuity properties of LQG optimal controllers, 2A260
GREEN, MR: Sound field generated by a pair of circular cylinders moving in unsteady rectilinear motion, 3A251
GREEN, P: Development of easy-to-understand vehicle malfunction warnings, 8A1445
GREEN, PA: Simultaneous in-process inspection of surface form and roughness of machined sculptured surfaces, 5A572
- Error compensation strategy for replication by rapid prototyping, 5A382
GREEN, PW: Demonstration of 3D microstructure self-assembly, 5T347
GREEN, SI: Fluid Vortices - Fluid Mechanics and Its Applications Series, Vol 30, 2R33
GREENBERG, A: Estimation of the spatial impulse response of an ultrasonic transducer using a tomographic approach, 3A297
GREENBERG, AR: Material and compositional properties of selectively demineralized cortical bone, 2A1309
GREENBERG, JB: Mass exchange between droplets during head-on collisions of multisize sprays, 2A1165
- Extinction dynamics of partially premixed spray flames, 6A1205
- Solution of a class of polydisperse spray problems, 8A937
- New heterogeneous burning velocity formula for the propagation of a laminar flame front through a polydisperse spray of droplets, 8A1250
- Analysis of multiple flames in counterflow spray combustion, 9A1309
GREENBERG, JM: Well-balanced scheme for the numerical processing of source terms in hyperbolic equations, 7A277
GREENE, JA: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222
- Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342
- Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882
- Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, 7A884
GREENE, JM: Area preserving nontwist maps: Periodic orbits and transition to chaos, 8A76
GREENE, R: Computation of vascular flow dynamics from intravascular ultrasound images, 11A1420
GREENE, RL: Classical Mechanics with Maple™, 2R31
GREENFIELD, S: Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
GREENGARD, L: Integral equation methods for Stokes flow and isotropic elasticity in the plane, 11A885
GREENHALGH, SA: Accurate formulation of log-stretch dip moveout in the frequency-wavenumber domain, 11A1366
GREENKORN, RA: Laboratory observation of nonlocal dispersion, 11A1321
GREENLEAF, JF: Nonlinear interaction of two plane waves in a viscous medium, 10A337
GREENSPAN, D: Particle simulation of large carbon dioxide bubbles in water, 4A1013
GREENWOOD, DT: Stability and accuracy analysis of Baumgarte's constraint violation stabilization method, 5A95
GREENWOOD, K: CAD-CAM of 3D woven structures (preforms) for fiber-reinforced composites, 6A427
GREGERSEN, H: Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, 6A1332
GREGORY, MJ: Technology management: A process approach, 2A352
GREGORY, S: Open grid bridge noise from grid and tire vibrations, 8A244
GREGSON, PJ: Deviant crack path behavior of aluminum-lithium alloy AA8090 plate, 11A624
GREIF, R: Mean free path and apparent thermal conductivity of a gas in a porous medium, 3T1118
- Approximate formulation for coupled conduction and radiation through a medium with arbitary optical thickness, 3T1138
- Heat transfer from a flat plate to a fully developed axisymmetric impinging jet, 3T1019
- Thermophoretic deposition including an application to the outside vapor deposition process, 7A1299
GREIG, AR: Improvement of the accuracy of a PUMA 560 industrial manipulator by calibration, 7A463
GREIM, R: Three-dimensional flow simulation on high-performance computers, 4A984
GREINER, BE: Laboratory-scale hybrid rocket motor uncertainty analysis, 11A1310
GREINER, GP: Stress-based quadrilateral shear panel, 7A44
GREITZER, EM: Dynamic control of rotating stall in axial flow compressors using aeromechanical feedback, 5A1049
- Effects of rotating inlet distortion on multistage compressor stability, 11A1055
- Computational study of viscous effects on lobed mixer flow features and performance, 11A1072
GREK, GR: Experimental study of the influence of riblets on transition, 11A946
GREMAUD, P-A: Super-time-stepping acceleration of explicit schemes for parabolic problems, 7A1251
- A priori error estimates for numerical methods for scalar conservation laws - Part I: The general approach, 9A98
- Error estimates for FEMs for scalar conservation laws, 10A17
GREN, PO: Transient acoustic near field in air generated by impacted plates, 7A326
GRESCHIK, G: Helically curved unfurlable structural elements: Kinematic analysis and laboratory demonstration, 8A839
GRETLER, W: Pressure wave propagation in a short tunnel caused by passing trains, 6A246
- Wave propagation by the passage of two high-speed trains in a tunnel, 12A1079
GREUTER, F: Nonlinear dielectric composites, 2A439
GREWAL, PS: Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, 5T943
GREYDANUS, J: Theoretical analysis of an airbag crash sensor, 5A339
GRIBANOV, SA: Technological and theoretical studies on the process of polyester yarn high-speed spinning, 6A450
GRIBOV, AA: Heat transfer and limiting heat loads in water boiling on downward-facing plane and spherical surfaces, 1A1237
GRIBOVA, IA: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812
GRIEF, R: Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, 11A1205
GRIESEL, CJW: Effects of strakes on a glancing shock wave-turbulent boundary-layer interaction, 2A947
- Correlation of shock angles caused by rhombic delta wings, 12T1103
GRIFFIN JR, OH: Postbuckling of laminated composites with delaminations, 3A636
- Buckling and postbuckling of circular plates containing concentric penny-shaped delaminations, 5A525
GRIFFIN, MJ: Standardization of a testing method for the end-stop impacts of suspension seats, 10A215
GRIFFIN, T: Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, 10A1363
GRIFFITHS, BJ: Erosion of steel surfaces by grit-blasting as a preparation for plasma spraying, 12A721
GRIFFITHS, JR: Damage by the cracking of silicon particles in an Al-7Si-0.4 Mg casting alloy, 5A639
GRIGGS JR, FE: Stephen H Long and Squire Whipple: The first American structural engineers, 1A912
GRIGOLYUK, EI: Model of the deformation of a non-uniformly heated three-layer rod with delaminations, 4A1228
- Nonlinear behavior of thin elastic plates, 12T165
GRIGORENKO, YM: Solution of plate and shell theory problems using spline-functions: Survey (Russian), 7A606
- Solution of 2D problems of statics of shallow shells on the basis of spline-approximations (Russian), 7A622
- Study of the stressed state of hollow orthotropic cylinders of nonround cross-section under the effect of local load (Russian), 7A623
GRIGORIADIS, KM: Optimal H_∞ model reduction via linear matrix inequalities: Continuous- and discrete-time cases, 5T313
- Alternating convex projection methods for discrete-time covariance control design, 7A385
GRIGORIU, M: Non-Gaussian noise effects on reliability of multistable systems, 5A105
- Non-Gaussian elliptically-contoured ARMA models, 10A60
GRIGOROPOULOS, CP: Heat transfer in excimer laser melting of thin polysilicon layers, 3A1119
GRIGOROVA, TV: Stress and damage distribution near the tip of a crack growing under creep, 6T678
GRILITSKY, DV: Nonstationary temperature field and thermoelastic state of bilayered hollow round cylinder under friction heating, 7A1280
GRILL, W: Phase singularities in scanning acoustical microscopy, 5A272
- Focusing PVDF transducers for acoustic microscopy, 10A860
GRILLI, ST: Numerical modeling of wave breaking induced by fixed or moving boundaries, 10A296
GRIMALDI, A: Theory of Stability of Continuous Elastic Structures, 5R19
GRIMAZ, S: Modeling of ground motion in the vicinity of massive structures, 8A1334
GRIMBERG, R: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
GRIMBLE , MJ: Horizontal axis wind turbine control: Comparison of classical, LQG and Hᵢ∞ designs, 9A435
GRIMBLE, MJ: H_∞ optimal multichannel linear deconvolution filters, predictors and smoothers, 8T283
- Extensions to generalized LQG and H_∞ multivariable controllers, 8T280
GRIMES, RY: How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, 12A1474
GRIMSHAW, R: Modulation of nonlinear periodic wavetrains by dissipative terms in the Korteweg-de Vries equation, 4A258
- Radiation boundary conditions in barotropic coastal ocean numerical models, 6A1291
- Numerical simulations of uniformly stratified fluid flow over topography, 7A1062
GRIMSHAW, RHJ: Solitary waves on 2D slab conduits of buoyant fluid in a more viscous fluid, 3A201
- Simple model for unsteady buoyancy-driven abyssal circulation, 11T1414
GRIMSLEY, JL: Optimal packing of arbitrarily-shaped polygons using simulated annealing and polynomial-time cooling schedules, 1A34
GRINCHENKO, VT: Axisymmetrical waves in elastic hollow cylinder filled and surrounded with liquid (Russian), 3A215
- Peculiarities of dynamic deformation of a round plate with holes, 7A164
GRINFELD, M: Discrete velocity coagulation-fragmentation model, 2A1111
GRINFELD, MA: Nonlinear poroelasticity for a layered medium, 1A1367
GRINSHPAN, DD: New process for the production of hydrocellulose fibers without using carbon disulfide, 6A870
GRINSTAFF, MW: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
GRINSTEAD, JH: Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063
- Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, 8T1064
GRINSTEAD, RR: Jet fuel deposition and oxidation: Dilution, materials, oxygen, and temperature effects, 10A1373
GRINSTEIN, FF: Numerical simulation of particle transport in planar shear layers, 6A939
GRINSTEIN, G: Conjectures about phase turbulence in the complex Ginzburg-Landau equation, 7T104
GRINZATO, E: Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, 4A1202
GRISHIN, SA: Problems with the Toeplitz and quasi-Toeplitz matrices that appear in the static stability analysis of elastic systems, 8A523
GRISHIN, VA: Stressed state of a box-like shell reinforced by a pair of symmetric inclusions parallel to the edge of the shell, 8A495
GRISHIN, VI: Solution of problems on elastic-plastic contact interaction of bodies using a FEM, 10A11
GRISHIN, VK: US and Russian thermal control costing results in low Earth orbit, 7A992
GRISHKO, AA: Effect of damping forces on the postcritical behavior of substantially nonpotential systems, 5A81
- Secondary bifurcations and global instability of an aeroelastic nonlinear system in the divergence domain, 10A319
GRISMER, DS: Double-delta-wing aerodynamics for pitching motions with and without sideslip, 5A991
GRITSYNA, VT: Use of stimulated boundary gas release for determination of the adhesion of thin films by the blister test, 3A869
GRITZO, LA: Coupled thermal response of objects and participating media in fires and large combustion systems, 4A1261
GRMELA, M: Direct modeling of flow of FENE fluids, 2A840
GROBBELAAR-VAN DALSEN, M: Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with nonhomogeneous boundary conditions, 5A874
GROBOV, ID: State-set estimation algorithm for linear systems in the presence of bounded disturbances, 10T401
GROCOCK, PG: Development of the twin-roll casting process, 7A756
GRODSINSKY, CM: Microgravity isolation system design: A modern control analysis framework, 7A214
- Microgravity isolation system design: A case study, 7A215
- Microgravity isolation system design: A modern control synthesis framework, 7A213
GRODSKI, JJ: Parametric motor control: A new approach to the control of point-to-point manipulator movements, 5A374
GRODZINSKY, AJ: Effect of aging and pressure on the specific hydraulic conductivity of the aortic wall, 8A1426
GROEN, AE: Observations on element performance in isochoric and dilatant plastic flow, 1A523
GROENENBOOM, J: Attenuation, dispersion, and anisotropy by multiple scattering of transmitted waves through distributions of scatterers, 5A269
GROENEWALD , W: Effect of mass transfer on turbulent friction during condensation inside ducts, 2A959
GROENEWEGEN, P: Barriers to energy in vehicle design, 11A1279
GROENEWOUD, WM: Influence of fiber length and concentration on the properties of glass fiber reinforced polypropylene - 2: Thermal properties, 12A545
GROENWOLD, AA: Efficient 4-node 24 dof thick shell FE with 5-point quadrature, 9A608
- Pseudo-discrete rounding method for structural optimization, 12A826
GROFF, GB: Plasma spray treatments for steel adherends, 8A855
GROMOV, DG: Free convective heat and mass transfer in processing polymer materials, 5A1147
GROMOVYK, VI: Thermal-stress state of heat-sensitive ceramic tubular systems in the case of convective heat exchange, 1A1279
GRONAS, S: Special issue with papers presented at the International Symposium "The life cycles of extratropical cyclones" in Bergen, Norway, June 27-July 1, 1994, 4A1344
GRONOSTAJSKI, J: Few methods of analytical calculation of forming-limiting curves, 7A730

GROOD, ES: Cell orientation response to cyclically deformed substrates: Experimental validation of a cell model, 5A1377
- Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443
GROOT, CJWP: Effects of water on mortar-brick bond, 1A955
GROOTENBOER, HJ: Inverse dynamics model for the analysis, reconstruction, and prediction of bipedal walking, 2A1290
GROS, P: Matching and clustering: Two steps toward automatic object modeling in computer vision, 4A386
GROS, XE: Characterization of low-energy impact damages in composites, 9A286
GROSH, K: Design of Galerkin generalized least squares methods for Timoshenko beams, 12A143
GROSLAND, N: Reinforcement of bone cement around prostheses by pre-coated wire coil: A FEM study, 2A1316
GROSS, D: Strategy for determining the equilibrium shape of an inclusion, 1A468
- Fast crack propagation in viscoplastic materials, 9A840
- Traction and contact problems for an anisotropic medium with a cylindrical borehole, 9A484
GROSS, G: Applicability of numerical mass-consistent wind field models, 12A1419
GROSS, GJ: Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, 10A1466
GROSS, JL: Inelastic response to the Cypress Viaduct to the Loma Prieta earthquake, 2A1243
GROSS, RS: Missile flight control using active flexspar actuators, 11A313
GROSS, S: Magnitude distributions and slip scaling of heterogeneous seismic sources, 11A1344
GROSS, TS: Study of the pressure distribution on an aircraft tire-wheel interface, 2A794
GROSSE, IR: A posteriori error estimation and adaptive mesh refinement for combined thermal-stress FE analysis, 10A1344
GROSSE, M: Influence of the depth position on the neutron embrittlement of the VVER reactor pressure vessel steel 15Cr2Mo V(A) consequences for the assessment of reactor safety, 4A1351
GROSSE-GORGEMANN, A: Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, 1A1174
- Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, 1A1173
GROSSI, RO: Natural frequencies of edge restrained tapered rectangular plates, 1A150
GROSSMAN, B: Sensitivity algorithms for an inverse design problem involving a shock wave, 1A243
- Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, 11A797
GROVE, DJ: Prediction of force-time histories in thick steel plates due to penetration by tungsten rods at velocities of 1.5-2.5 km s^{-1}, 8A190
GROVE, JW: Numerical investigation of Richtmyer-Meshkov instability using front tracking, 4A1063
GROVER, PS: Characterization of creep-fatigue crack growth behavior in 2.25 Cr-1 Mo steel using $(C_t)_{avg}$, 8A595
GROVER, RB: Experimental study of the discharge coefficient of pipe perforations, 3A877
GROVES, SE: Evaluation of first ply failure in a 3D load space, 1A539
GROWNEY, E: Accuracy of a video strain measurement system, 10A1482
GRUBB, DT: Measurement of stress concentration in a fiber adjacent to a fiber break in a model composite, 2A420
- Fiber interactions in the multi-fiber composite fragmentation test, 2A650
GRUBER, F: Advanced gas engine cogeneration technology for special applications, 5A1267
GRUFFMAN, S: Fiber optic strain gauge linearization, 1A849
GRUJOVIC, N: Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, 4A579
- General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, 12A515
GRUNDLER, P: Modeling heat transfer in chemical microsensors, 10A1274
GRUNDMANN, R: Effects of blade design on centrifugal fan noise and performance, 1A285
GRUPP, M: "Convective" flat plate collectors and their applications, 3A1363
GRUTTMANN, F: Axisymmetrical quasi-Kirchhoff-type shell element for large plastic deformations, 2A29
- Coupling of 2D and 3D composite shell elements in linear and nonlinear applications, 9A607
- Four-node finite shell element for the implementation of general hyperelastic 3D-elasticity at finite strains, 12A602
GRYANIK, VM: Vortex intensification and collapse of the Lissajous-elliptic ring: Single- and multi-filament Biot-Savart simulations and visiometrics, 2A873
GRYGIEL, K: Lyapunov exponents analysis of autonomous and nonautonomous sets of ordinary differential equations, 1A110
GRYNING, S-E: Humidity fluctuations in the marine boundary layer measured at a coastal site with an infrared humidity sensor, 12T1426
GRZBIELA, C: Control of shifting locomotive operating in excavator-haulage train system (Polish), 3T408
- Analysis of shift locomotive work as element of excavator-haulage train robot system (Polish), 3T406
GRZEGORY, I: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704
GRZESIK, JA: Scattering characteristics of fibrous media containing closely spaced parallel fibers, 1A1270
GRZESIK, W: Revised model for predicting surface roughness in turning, 12A933
GRZYB, A: Dynamic effects in the rail vehicle-track system for elastic-plastic foundation, 9A572
GRZYWACZEWSKI, M: Kinetic description of self organization in friction process (Polish), 6A786
GU , DINGLIANG: Thermal regulation of head region and its selective cooling, 7A1419
GU , ZHIPING: Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), 3A168
GU, CHEN-GANG: Scanning moire method for obtaining smooth fringe patterns, 5A683
GU, GUOXIANG: New method for computing delay margins for stability of linear delay systems, 2A252
GU, H: Exact elasticity solution for buckling of composite laminates, 11A429
GU, HAOZHONG: Modeling of delamination buckling in composite cylindrical shells with a new higher-order theory, 1A666
- Delamination buckling and postbuckling of composite cylindrical shells, 11A654
GU, J: Trace averaging domain decomposition method with nonconforming FEs, 7A39
GU, JIALIU: Active robust H^{∞} control for vibration of rotor system by controlled squeeze film damper bearing (Chinese), 10T222
GU, JINQPING: Assessment of potential strength of an induced earthquake by using fuzzy multifactorial evaluation, 3A1334
GU, MIAN-JU: Postural control in young and elderly adults when stance is perturbed: Dynamics, 6A1328
GU, MU: Obtaining initial parameter estimates for chaotic dynamical systems using linear associative memories, 9A160
GU, RJ: Reconstruction of contact pressures between flexible objects and rigid planes using friction data, 2A807
GU, RONGRONG: Vibration control of a ropeway carrier by passive dynamic vibration absorbers, 6A173
GU, SONGNIAN: New procedure for orthogonalization of measured modes considering structural symmetry (Chinese), 4T207
GU, W: Dynamic pulse buckling of cylindrical shells subjected to external impulsive loading, 7A677
GU, XIAOHUI: New experiment-calculation mixing method used to determine stress intensity factors (Chinese), 9A800
GU, XJ: Burning velocities, Markstein lengths, and flame quenching for spherical methane-air flames: A computational study, 7A1306
GU, YI: Enumerating significant failure modes of a structural system by using automatic matrix force method (Chinese), 9T901
GU, YIAN: Analytical solution to transient heat conduction in a composite region with a cylindrical heat source, 3A1102
GU, YONG-QUAN: Critical balance ratio of mechanical seals, 8T820
GU, YUANXIAN: Combined programming and iteration algorithm for FE analysis of 3D contact problems, 10A519
GU, ZHEN: Simplified dynamic model of the T700 turboshaft engine, 6A1207
GU, ZHENGQUI: Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, 12A930
GUAN, BOTAO: Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, 9A444
GUAN, F: Three-dimensional dynamic response of lined tunnels due to incident seismic waves, 9A1392
GUAN, LINGWEI W: Performance of strengthened concrete deep beams predamaged in shear, 9A921
GUAN, PENG: Sensitivity analysis of eigenproblems for symmetrically-laminated composite plates, 8A136
GUAN, YUPU: Nonlinear quasi-conforming FEM and the hybrid-mixed FEM - II: On the Hu-Washizu variational principle (Chinese), 9T21
GUAN, ZHICHENG: Existence and blow-up of solutions to two-phase nonequilibrium problems, 12A1244
GUANGTENG, G: Measurement and modeling of boundary film properties of polymeric lubricant additives, 7T1188
- Boundary film formation by lubricant base fluids, 8T1036
- Role of surface tension and disjoining pressure in starved and parched lubrication, 11T1077
GUBAIDULLIN, AA: One-dimensional linear waves with axial and central symmetries in saturated porous media, 9A1356
GUBANOVA, GN: Development of deformation process in carbon fiber reinforced plastics and metals on acoustic emission data, 1A586
- Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699
GUBARENKO, SI: Algorithms of analytical compensation for systematic drifts of a noncontact gyro, 5A83
- Identification of the model of noncontact gyro drift on the basis of bench test results, 7A99
GUBBINS, D: Three-dimensional kinematic dynamos dominated by strong differential rotation, 7A1144
GUCCIONE, JM: Finite element stress analysis of left ventricular mechanics in the beating dog heart, 1A1450
GUCUNSKI, N: Effects of obstacles on Rayleigh wave dispersion obtained from the SASW test, 12A220
GUDEHUS, G: Constitutive relations for granulate-liquid mixtures with a pectic constituent, 9A656
- Plane shear waves and loss of stability in a saturated granular body, 10A256
GUDIMENKO, Y: Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, 5A249
GUDMESTAD, OT: Hydrodynamic coefficients for calculation of hydrodynamic loads on offshore truss structures, 11A223
GUEDES SOARES, C: Observations of the high-frequency range of the wave spectrum, 11A1415
GUEDES, JM: Generalized topology design of structures with a buckling load criterion, 3A758
- Optimization of structure and material properties for solids composed of softening material, 9A891
GUEGUEN, Y: Scales of rock permeability, 11A1324
GUELIN, P: Towards modeling of deformable ferromagnets and ferroelectrics, 3A565
GUELL, DC: Improved mechanical properties in hydrodynamically-aligned, short-fiber composite materials, 8A454
GUELMAN, M: Earth-to-moon transfer with a limited power engine, 3A347
- Optimal planar interception with terminal constraints, 4A367
GUELZIM, Z: Coupled incremental damage and plasticity theory for metal matrix composites, 9A783
GUENETTE, R: New mixed FEM for computing viscoelastic flows, 3A455
- Numerical simulation of viscoelastic flows through a planar contraction, 8A405
GUENTHER, GK: Evaluation of the Doi-Ohta theory for an immiscible polymer blend, 6A864
GUERASSI, N: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
GUERIN, JP: Feedback representation of precompensators: Application decoupling linear multi-input multi-output plants, 8T278
- Feedback representation of precompensators: The general case, 8T259
GUERIN, R: Collocation method for convective flow induced by directional solidification in a cylinder, 8A66
GUERLEMENT, G: Elastic-plastic plates sealing a liquid: Tests and analysis, 9A601
GUERRE-CHALEY, C: Influence of water content and temperature on the thermal conductivity of autoclaved aerated concrete (French), 3A485
GUERRERO, A: Rheology and processing of salad dressing emulsions, 5A867
GUESS, TR: Rubbery cure shrinkage model for analyzing encapsulated assemblies, 3A449
- Butt joint strength: Effect of residual stress and stress relaxation, 8A852
GUEST, SD: Folding of triangulated cylinders - Part III: Experiments, 9A967
GUGLIELMINO, E: Improvements in bio-mechanical adhesion of screws used in medical field: First application in spinal surgery, 2A1315
- Thermal infrared analysis of plastics under monoaxial loads, 7A1043
GUGLIELMO, K: Theory and implementation of a repetitive robot controller with Cartesian trajectory description, 9A465
GUHA, B: New fracture mechanics method to predict the fatigue life of welded cruciform joints, 2A571
GUI, FULIN: Absolute falling tube viscometer, 8A1045
GUIBERTEAU, F: Residual stresses around Vickers indents, 2A403
GUICCIARDI, S: High temperature friction and wear testing of silicon nitride ceramics, 5T809
GUICE, LK: Buckling of encased elliptic thin ring, 6A494
GUICHARD, L: Two-dimensional weak shock-vortex interaction in a mixing zone, 3A1220
GUIDOTTI, HA: Advantages of air conditioning and supercharging an LM6000 gas turbine inlet, 5A1027
GUIGNE, JY: Near-field acoustic intensity mapping using a closed surface, 1A348
- Dynamic response of tubular T-joints under the influence of propagating cracks, 8A146
GUILAK, F: Compression-induced changes in the shape and volume of the chondrocyte nucleus, 5A1380
GUILEMANY, JM: Powder particle structure formation during solidification in the process of metal atomization, 6A1171
- Dynamic processes during in-flight motion of Cr_3C_2-NiCr powder particles in high velocity oxy-fuel (HVOF) spraying, 7A1086
GUILLARD, H: Second order defect correction scheme for unsteady problems, 6A913
GUILLAUME, DW: Combustion enhancement using induced swirl, 5T1237
GUILLET, S: Structural shape optimization of parts bounded by free-form surfaces, 12A832
GUILLOT, M: Method for the evaluation of tensile properties of skin equivalents, 1T1461
- Study of the tensile properties of living skin equivalents, 6A1358
GUIMARAES, J: Dynamic surface solutions in linear elasticity and viscoelasticity with frictional boundary conditions, 5A391
GUIMARAES, S: Numerical Green's function approach for BEs applied to fracture mechanics, 2A678
GUINES, D: EHD analysis, including structural inertia effects and a mass-conserving cavitation model, 5A1097
GUIQING, L: Analysis of free vibrations of high-rise structures, 2A130
GUIU, F: Theoretical analysis of the cutting method for the measurement of crack bridging tractions, 9A852
GUI, G: Extended self similarity and the form function, 5A960
- Experimental analysis of scaling laws in low RE_{λ} grid-generated turbulence, 7A1129
- Extended self-similarity in anisotropic grid-generated turbulent flow, 10T1182
GULATI, A: Effect of dilution air on the scalar flowfield at combustor sector exit, 4A1256
GULATI, KC: Reliability-based casing design, 1A948
GULCZINSKI III, FS: Near- and far-field plume studies of a one-kilowatt arcjet, 6A1217
GULDER, OL: Inner cutoff scale of flame surface wrinkling in turbulent premixed flames, 1A1321
GULDNER, J: Tracking the gradient of artificial potential fields: Sliding mode control for mobile robots, 8A355
GULISASHVILI, A: Linear chaos in the unforced quantum harmonic oscillator, 12T114
GULIYEV, RS: Nonlinear dynamics of nonclassic destruction of damaged lamellar systems (Russian), 7A577
GULLAPALLI, SR: Thermo-elastic FE fatigue failure analysis, 4A17
GULTOP, T: Acceleration waves in finitely deformed elastic-plastic solids, 1A195
GULYAEV , VI: Optimal control of a spacecraft with a solar sail (Russian), 3A376
GULYAEV, VI: Dynamics of deep-sea cable system (Russian), 7T599
GUMBSCH, P: Atomistic study of brittle fracture: Toward explicit failure criteria from atomistic modeling, 8A676
GUMEROV, KS: Commercial hazardous liquid waste disposers using thermojet afterburners, 6A1300
GUMUSEL, L: Optimum design of a buoyancy and gravity-driven underwater robot, 11A375
GUN, HUSEYIN: Total heat transfer coefficients for canned foods during sterilization, 4A1204
GUNARATNE, M: Response of a layered elastic medium to a moving strip load, 8A138
- Study of pore pressures induced in laboratory dynamic consolidation, 8A531
GUNDA , R: Method of images for the harmonic response of beams and rectangular plates, 2A94
GUNDES, AN: Test for stabilizability by constant output-feedback, 3T320
GUNDY-BURLET, K: Hot-streak clocking effects in a 1-1/2 stage turbine, 11A1305
GUNGOR, S: Experimental determination of stress intensity factors of cracks in sheet structures with bolted stiffeners, 8A623
GUNJIMA, M: Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
GUNNARS, J: Effect of elastic mismatch on the growth of a crack initially terminated at an interface in elastic plastic bimaterials, 3A688
GUNTHER, MF: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222
GUNZBURGER, MD: Least-squares methods for the velocity-pressure-stress formulation of the Stokes equations, 4A947
- Analysis and FE approximation of optimal control problems for a Ladyzhenskaya model for stationary, incompressible, viscous flows, 4A971
- Finite-dimensional approximation of a class of constrained nonlinear optimal control problems, 10A411
- Model for variable thickness superconducting thin films, 12A641

GUO , DONG: One-dimensional searching method for positive coefficient geoemtric programming (Chinese), 9A886
GUO , RIXIU: Semi-analytical plate-beam super-element (Chinese), 9A83
GUO , YONGSHAN: Research on theory and test on defrosting soil using microwave power (Chinese), 8A536
GUO , ZHAOPU: Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), 9A533
GUO, BAO ZHU: Initial-boundary value problem and exponential decay for a flexible-beam vibration with gain adaptive direct strain feedback control, 12T151
GUO, BENYU: Spectral method for the fluid flow with low Mach number on the spherical surface, 4A999
GUO, BOLING: Finite dimensional behavior for the derivative Ginzburg-Landau equation in two spatial dimensions, 6A516
GUO, CHENGBI: Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), 8A1232
- Damage criterion of low cycle fatigue of medium carbon steel under complicated stress state (Chinese), 9A750
GUO, CHUN-HUA: Incomplete block factorization preconditioning for linear systems arising in the numerical solution of the Helmholtz equation, 8A256
GUO, DALI: Two-phase flow for a horizontal well penetrating a naturally fractured reservoir with edge water injection, 6A943
GUO, HAIYAN: FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), 6A10
GUO, HUIFANG: Reciprocal sliding wear of SiC particle reinforced Al-Cu aluminum matrix composites against stainless steel, high speed tool steel and ceramics - I: Tribological properties and construction of tribo-maps, 12A909
- Reciprocal sliding wear of SiC particle-reinforced Al-Cu aluminium matrix composites against stainless steel, high speed tool steel and ceramics - II: Wear mechanisms, 12A908
GUO, J: Fine suspended sediment transport rates, 6A884
GUO, JIANLIN: Nonlinear stability of convection induced by inclined thermal and solutal gradients, 2A1097
GUO, N: Comparison of Lamb waves and pulse echo in detection of near-surface defects in laminate plates, 2A698
GUO, QUANXIN: Three-dimensional analysis of surface cracks in an elastic half-space, 12A487
GUO, R-M: Recent Advances in Heat Transfer and Microstructure Modeling for Metal Processing, MD-Vol 67-MED-Vol 4 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 7N19
GUO, RIXIU: Hydroelasticity of rotating bodies: Theory and application, 7A1151
GUO, S: Orthogonality sensitivity method for analytical dynamic model correction using modal test data, 4A136
- Exact dynamic stiffness matrix of a bending-torsion coupled beam including warping, 9A185
GUO, SUOFENG: Studies on aircraft total energy flight control system: Nonlinear system integration and simulation, 6A321
GUO, SZ: Coupling model of vertical and lateral vehicle-track interactions, 12A200
GUO, W: Modeling of a three-layer piezoelectric bimorph beam with hysteresis, 5A353
GUO, XIAOPING: Modeling of instantaneous temperature field in reactor (Chinese), 8A1165
GUO, Y: Thermal deformation analysis of various electronic packaging products by moire and microscopic moire interferometry, 3A1188
GUO, YAKUN: Flow generated by the rotation of a horizontal disk in a stratified fluid, 4A953
GUO, YAN: Theoretical analysis and experimental study of speed effect of incipient cavitation erosion number (Chinese), 8A879
- Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, 9A1141
GUO, YING-ZHENG: Generalized variational principles for the natural frequencies of elastic cylindrical shells, 1A156
GUO, YINGKUI: Experimental research on transient heat transfer in sand, 10A1422
GUO, YP: Acoustic scattering from cylindrical shells with deck-type internal plate at oblique incidence, 10A355
GUO, Z: Plastic deformation kinetics of 95.5Sn4Cu0.5Ag solder joints, 3A866
GUO, ZENG-YUAN: Non-Fourier heat conduction in IC chip, 3A1109
- Thermal effect on the recirculation zone in sudden-expansion gas flows, 11A1139
GUO, ZENGYUAN: Natural convective boiling in vertical rectangular narrow channels, 8T1131
- Experimental research on transient heat transfer in sand, 10A1422
GUO, ZHAOPU: Thermal buckling analysis of laminated composite plates with temperature-dependent material properties (Chinese), 8A1236
- Finite element method for nonlinear viscoelastic analysis of laminated composite plates (Chinese), 11A443
GUO, ZHEN-REN: Numerical model for sea outfall hydraulics, 6A892
GUO, ZHENFENG: Effect of microstructure size on deformation kinetics and thermo-mechanical fatigue of 63Sn37Pb solder joints, 12A1280
GUO, ZHIHONG: Effects of hypoelastic model and plastic hardening on numerical simulation: Shear deformation of 2D plane block, 3A463
- Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, 7A25
GUO, ZX: Phase superposition processing for ultrasonic imaging, 12A796
GUOPING, Y: Experimental investigation and theoretical analysis of large miter gates, 2A778
GUPALO, YP: Model of the hydrodynamic interaction between inhomogeneities in a fluidized bed, 1A1366
GUPTA, A: Advanced manufacturing technology strategy: A managerial perspective, 8A373
GUPTA, AK: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Inelastic vector FE analysis of RC shells, 8A17
- Vector algorithm for layered reinforced concrete shell element stiffness matrix, 8A40
- Propagation of torsional surface waves in viscoelastic medium, 8A173
- Torsional surface waves in nonhomogeneous and anisotropic medium, 10A249
- Propagation of torsional surface waves in a homogeneous substratum over a heterogeneous half space, 10A248
- Role of combustion on droplet transport in pressure-atomized spray flames, 11A1302
- Propagation of Rayleigh waves in a heterogeneous incompressible substratum over a homogeneous incompressible half-space, 11A168
GUPTA, AS: Dispersion of a solute in oscillating flow through a channel, 10A1350
- Transient compressible boundary layer on a wedge impulsively set into motion, 10A1141
GUPTA, BK: Mechanical and tribological properties of hard carbon coatings for magnetic recording heads, 5A801
GUPTA, JL: Effect of roughness on the behavior of squeeze film in a spherical bearing, 6A847
GUPTA, K: Composite shaft rotordynamic analysis using a layerwise theory, 10A224
GUPTA, KM: Design of loose type orthotropic flange, 1A607
- Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, 5A516
GUPTA, M: Investigation of lean combustion in a natural gas-fueled spark-ignited engine, 12A1328
GUPTA, OP: Error analysis in applying a BEM for 3D steady state potential problems, 3A44
GUPTA, R: Technique for sound velocity measurement in liquids using cavity resonance, 3A261
- Reliability-based design of water-distribution systems, 6T876
- Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, 12A281
GUPTA, RB: Experimental and numerical studies of shear layers in granular shear cell, 8A528
GUPTA, RN: Aerothermal study of Mars Pathfinder aeroshell, 7A985
- Two- and three-dimensional analysis of hypersonic nonequilibrium low-density flows, 10A1099
- Viscous shock-layer study of thermochemical nonequilibrium, 10A1100
- Reevaluation of flight-derived surface recombination-rate expressions for oxygen and nitrogen, 12T868
GUPTA, S: Mapping algorithm for domain decomposition in massively parallel FE analysis, 2A23
- Unified approach to modeling photovoltaic powered systems, 3A1385
- Integrated controls-structures design methodology: Redesign of an evolutionary test structure, 8A272
- Experimental validation of an integrated controls-structures design methodology, 8A350
- Propagation of torsional surface waves in viscoelastic medium, 8A173
- Torsional surface waves in nonhomogeneous and anisotropic medium, 10A249
- Propagation of torsional surface waves in a homogeneous substratum over a heterogeneous half space, 10A248
- Propagation of Rayleigh waves in a heterogeneous incompressible substratum over a homogeneous incompressible half-space, 11A168
GUPTA, U: Thermal convection in micropolar fluids in porous medium, 2A1107
GUPTA, US: Method of collocation by derivatives in the study of axisymmeric vibrations of circular plates, 2A104
GUPTA, V: Crack nucleation in columnar ice due to elastic anisotropy and grain boundary sliding, 2A1278
- Failure in carbon-polyimide laminates under biaxial compression, 2A648
- Observations of crack nucleation in columnar ice due to grain boundary sliding, 2A1280
- Contribution of surface irregularities to rolling contact plasticity in bearing steels, 5A439
- Influence of indent geometry on repeated 2D rolling contact, 5T800
- Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, 5A779
- Numerical study of the compression and shear failure of woven carbon-carbon laminates, 6A670
- Stress singularities at triple junctions with freely sliding grains, 8A445
- Supersonic separation with obstructions, 9T1137
- Mechanisms and quantification of spalling failure in laminated composites under shock loading, 11A684
- Singularities at grain triple junctions in 2D polycrystals with cubic and orthotropic grains, 12A490
GUPTA, VA: Proof of the convergence of the segmentation approach used in analysis of 1D linear systems, 9A99
GUPTA, VK: Probabilistic assessment of seismic damage in ductile structures, 3A1333
- Modeling solder joint fatique life for gullwing leaded packages - Part I: Elastic plastic stress model, 3A652
- Note on damage-based inelastic spectra, 10A1438
GUPTE, SK: Role of micro-convection due to non-affine motion of particles in a mono-disperse suspension, 1A1247
GUPTILL, JD: Merits and limitations of optimality criteria method for structural optimization, 2A725
- Comparative evaluation of different optimization algorithms for structural design applications, 10A876
GUR'YANOV, IA: Mathematical modeling of unsteady viscous flow over a 3D finite span wing, 10T1206
GURAN, A: Smart Structures, Nonlinear Dynamics, and Control, 8R6
GURARIE, D: Symmetries and conservation laws of 2D hydrodynamics, 2A870
GURCAN, AB: Wear behavior of AA6061 aluminium alloy and its composites, 3A829
GURDAL, Z: Postbuckling of laminated composites with delaminations, 3A636
- Improved genetic algorithm for the design of stiffened composite panels, 4A557
- Buckling and postbuckling of circular plates containing concentric penny-shaped delaminations, 5A525
- Derivative based approximation for predicting the effect of changes in laminate stacking sequence, 12A810
GUREEVA, GI: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812
GUREVICH, G: Misalignment and vibration, 10A220
GURFINKEL, G: Simple design of concrete walls and structural members under combined tension and moment, 3A785
- Designing T-beams for less ductility than required by ACI, 7A951
GURGOZE, M: Eigenfrequencies of a cantilever beam with attached tip mass and a spring-mass system, 7A141
- Slightly damped uniform n-mass oscillator, 9A194
GUROCAK, HB: Fuzzy rule base optimization of a compliant wrist sensor for robotic assembly, 11A396
GURSUL, I: Vortex breakdown over a pitching delta wing, 1A1107
- Active control of vortex breakdown over a delta wing, 2T1007
- Parametric effects on lift force of an airfoil in unsteady freestream, 10T1193
- Effect of nonaxisymmetric forcing on a swirling jet with vortex breakdown, 12A1134
GURTIN , ME: Phase-field theory for solidification based on a general anisotropic sharp-interface theory with interfacial energy and entropy, 8A7
GURTIN, ME: Nature of configurational forces, 1A4
- Thermomechanics and the formulation of the Stefan problem for fully faceted interfaces, 4A1234
- Semi-quadratic variational problems for multiphase equilibria, 7T6
- Configurational forces and the basic laws for crack propagation, 12A765
GURU MURTHY, K: Stress field in coated continuous fiber-reinforced polymeric composite due to hygrothermal loading, 12A552
GURUMOORTHY, R: Neural networks with modified backpropagation learning applied to structural optimization, 7A905
GURUSWAMY, GP: Navier-Stokes computations of full wing-body configuration with oscillating control surfaces, 5A996
- Wing-body acroelasticity on parallel computers, 9A326
- Navier-Stokes computations on flexible advanced transport wings in transonic regime, 11A1017
GURVICH, MR: Strength size effect of laminated composites, 3A501
- Probabilistic analysis of multi-step failure process of a laminated composite in bending, 7A918
GUSENKOV, AP: Modern methods for hardening machine parts, 5T679
GUSEV, AS: Structural analysis of random processes with allowance for realization scattering, 5T704
GUSEV, IN: Improvement of operational performance of the canard surface effect vehicles, 8A1009
GUSEV, VN: Hypersonic air-breathing engine-airframe integration, 10A1198
- Aerospace aerothermodynamics, 10A1205
GUSEVA, LR: Free convective heat and mass transfer in processing polymer materials, 5A1147
GUSHCHA, OI: Nonlinear properties of solids and some peculiarities of Rayleigh waves propagation in the bodies with initial stresses, 7A229
GUSINSKII, VZ: Integrally spherical gyro rotors, 3A89
GUSTAFSON, K: Qualitative features of high lift hovering dynamics and inertial manifolds, 8A1026
GUSTAFSSON, B: Time Dependent Problems and Difference Methods - Pure and Applied Mechanics Series, 9R1
GUSTAFSSON, N: Data-parallel numerical methods in a weather forecast model, 6A1295
GUSYATNIKOV, PB: Asymptotic behavior of the solution of the covariance equation for a navigational system, 1A387
GUTFINGER, C: Effect of centerline particle concentration in a wave tube, 7A1087
- Mechanics of collisional motion of granular materials - Part 3: Self-similar shock wave propagation, 12A1334
GUTH, W: Comparison of the Raman and the oscillator models of string excitation by bowing, 9A192
GUTHEIL, E: Numerical analysis of the autoignition of methanol, ethanol, N-heptane and N-octane sprays with detailed chemistry, 2A1177
GUTHRIE, RIL: Numerical study of coupled turbulent flow and solidification for steel slab casters, 1A1214
GUTIERREZ, PA: Modulus of elasticity of high performance concrete, 5A677
GUTIERREZ, RH: Vibrations of non-uniform rings studied by means of the differential quadrature method, 1A147
- Vibrations of a rectangular plate of non-uniform thickness partially embedded in a Winkler medium, 2T107
- Lowest axisymmetric frequency of vibration of a circular plate partially embedded in a Winkler foundation, 2T103
- Vibrations and buckling of clamped plates of regular polygonal shape with rounded corners, 8A511
- Note on numerical experiments in transverse vibrations of annular circular plates, 9T202
GUTKIN, MY: Generation of misfit dislocation structures at interphase boundaries in lamellar intermetallic compounds, 10A874
GUTKOWSKI, RM: Formulation of a bondline element for modeling glued joints in wood, 6A12
GUTKOWSKI, W: Shape optimization of 2D elastic structures using adaptive grids, 1A880
GUTMARK, EJ: Mixing enhancement in supersonic free shear flows, 2A905
- Supersonic flow mixing and combustion using ramp nozzle, 4A1255
GUTTAL, R: p-version of FEM for shell analysis, 1A632
- Recent advances in the P-version of the FEM for shells, 4A44
GUTTALU, RS: Stability analysis of periodic systems by truncated point mappings, 7A678
GUU, YEONG YAN: Tribological characteristics of titanium nitride coatings - Part II: Comparisons of two deposition processes, 12A940
- Tribological characteristics of titanium nitride coatings - Part I: Coating thickness effects, 12A939
GUVEN, U: Tresca's yield condition and the linear hardening rotating solid disk of variable thickness, 4T461
- Transverse vibration of a composite flywheel with optimum design, 5T518
GUYADER, J-L: Coupling eigenvalues and eigenvectors: A tool for investigating the vibroacoustic behavior of coupled vibrating systems, 10A123
- Use of an "Ectoplasm" to predict free vibrations of plates with cut-outs, 10A179
GUYADER, JL: Sound radiation from finite cylindrical shells, partially covered with longitudinal strips of compliant layer, 4A319
- Vibrational behavior of a population of coupled plates: Hypersensitivity to the connexion angle, 6A140
- Localization of forces applied on thin structures: Regularization of inverse problem, 11A506
GUZ, AN: Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian), 12R16
- Effect of liquid viscosity on the waves in elastic layer preliminarily strained with compression and interacting with liquid medium (Russian), 3A219
- Problems of dynamic fracture mechanics without account for the contact of crack margins (Russian), 3A708
- Three-dimensional problem on stability of a number of fibers perpendicular to free matrix boundary, 7A648
- Marginal effects in composites (Russian), 7A541
- Numerical study of boundary effects in laminated cylinders (Russian), 7A635
- Problems of dynamic failure with regard for the contact of crack edges, 7A854

- Theory of orthotropic shells and plates reinforced by the stiffening ribs, 7A637
- Fracture of infinite compressible ocomposite containing finite cylindrical crack under the conditions of axial compression, 9A791

GUZ, IA: Study of the composite resistance under compression along two parallel structural on the interfaces, 7A542

- Stability problems of composite materials under compression along the interlayer cracks: Periodic system of parallel macrocracks, 9A612

GUZIK, A: Numerical modeling of temperature fields using the multigroup least-squares method, 3A1187

GUZIK, J: Research of non-wear effect in material system: Steel-brass-glycerine (Polish), 6A837

GUZINA, BB: Elastodynamic Green's functions for a smoothly heterogeneous half-space, 6A389

GWILLIAM, N: Reduction in interlaminar shear strength by discrete and distributed voids, 9A824

GWILLIAM, SB: Analysis of the heat transfer rate and efficiency of TE (thermoelectric) cooling systems, 11A1226

GWOZDZ, M: Choice of steel bracing in frame structures on the base of rigidity criteria, 1A901

GWYNLLYW, DR: Moving spectral element approach to the dynamically loaded journal bearing problem, 7A65

GYARMATHY, G: Fast-response probes - Part 1: Technology, calibration, and application to turbomachinery, 5A1077

- Fast-response probes - Part 2: Aerodynamic probe design studies, 5A1078

GYLYS-COLWELL, F: Inverse problem for the Helmholtz equation, 9A384

- Layer stripping for the Helmholtz equation, 11A64

GYORFI, L: Averaged stochastic approximation for linear regression, 7T377

GYR, A: Fractal dimension and intermittency coefficients of certain flow variables in Newtonian and non-Newtonian turbulent flows, 8A83

GYSLING, DL: Dynamic control of rotating stall in axial flow compressors using aeromechanical feedback, 5A1049

GZYL, H: Maxentropic reconstruction of Fourier and Laplace transforms, 6A44

H

HA, CHEOLKEUN: Sampled-data system with computation time delay: Optimal W-synthesis method, 11A292

HA, CM: Neural networks approach to AIAA aircraft control design challenge, 1A417

HA, YUN-SU: Trajectory tracking control for navigation of the inverse pendulum type self-contained mobile robot, 11A336

HAAK, KFI: Transient acoustic diffraction in a fluid layer, 10A359

HAAKE, S: Engineering of Sport - Proc of the 1st Int Conf on the Eng of Sport, Sheffield, UK, July 1996, 11N47

HAARS, H: Stress state calculation of a repair of a uni- or bi-axially loaded laminate structure, 1A583

HAAS, D: Prediction of tail rotor thrust and yaw control effectiveness, 6A1040

HAAS, DJ: Helicopter flight data feature extraction or component load monitoring, 7A1182

HAASE, M: Exploration of Chaos, 4R3

HABASHI, WG: Solution Techniques for Large-Scale CFD Problems, 2N4

HABASHY, TM: Solution of pressure diffusion in radially composite reservoirs, 3A1270

HABEEBULLAH, MH: Modeling of waste heat recovery by looped water-in-steel heat pipes, 1A1284

HABER, RB: New approach to variable-topology shape design using a constraint on perimeter, 8A718

- Stability of FE models for distributed-parameter optimization and topology design, 12A831

HABERL, JS: Building energy use prediction and system identification using recurrent neural networks, 3A1158

HABERMAN, R: Higher-order change of the Hamiltonian between saddle approaches by phase plane matching, 11A89

HABERZ, K: Plastic deformation of fracture surface contacts in fatigue, 7A823

HABETS, LUC CGJM: Genericity of stabilizability for time-delay systems, 10T408

HABIB, HM: Effects of a nonabsorbable gas on interfacial heat and mass transfer for the entrance region of a falling film absorber, 7A1395

HABIB, IS: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 8, 3N39

HABIB, K: NDE of an epoxy-based coating by optical interferometry techniques, 2A686

HABIB, MA: Fluid flow and heat transfer characteristics in axisymmetric annular diffusers, 8A956

HABIBULLAH, A: Clarification of the orthogonal effects in a 3D seismic analysis, 7A1383

HABIGER, HA: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024

HABIGHORST, C: Investigations on the influence of the addition of carbon dioxide on the production and properties of rapidly set wood-cement composites, 1A532

HABISHYASI, UN: Consistency coefficient of a power-law flow of blood through the narrow vessel, 9A1448

HABLANI, HB: Magnetic precession and product-of-inertia nutation damping of bias momentum satellites, 4A298

- Comparative stability analysis and performance of magnetic controllers for bias momentum satellites, 4A370

HAC, M: Forms of damping matrix in the FE analysis of flexible mechanisms, 3A17

- Dynamic analysis of flexible mechanisms by FEM, 9A34

HACHEMI, A: Thermal performance enhancement of solar air heaters, by a fan-blown absorber plate with rectangular fins, 2A1275

HACHIGA, S: Static and dynamic stiffness of 1/10 tapered joints for automatic changing, 9A227

HACHIYA, T: Introduction of stress functions around a circular interface crack between dissimilar materials, 8A667

HACHIYA, Y: Concrete pavement layer moduli based on stable deflection, 6A546

HACI, M: Fluid flow in a skewed annulus, 12A1124

HACIFAZLIOGLU, S: Parametric study of stress sources in journal bearings, 12A961

HACKENBERG, CM: Vaporization of dilating non-ideal binary droplets with radiation absorption, 3A1095

HACKENBERG, H-P: Large deformation FE analysis with inelastic constitutive models including damage, 1A20

HACKENBERG, P: Optimum drag balance for boundary-layer suction, 9T1138

HACOHEN, J: Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, 5A1254

HADA, K: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871

HADAD, A: Simulation of immiscible multiphase flow in porous media: A focus on the capillary fringe of oil-contaminated aquifers, 9A1364

HADALA, PF: Seismic rehabilitation of earth dams, 6A544

HADANO, K: Experimental study on the growth of gravity currents (Japanese), 6A1242

HADDAD, WM: Nearly nonminimal linear-quadratic-Gaussian compensators for reduced-order control design initialization, 6T302

- Real-μ bounds based on fixed shapes in the Nyquist plane: Parabolas, hyperbolas, cissoids, nephroids and octomorphs, 7T378

- Frequency domain performance bounds for uncertain positive real systems, 8T301

- Reduced-order compensation using the Hyland-Bernstein optimal projection equations, 8T304

- Discrete-time mixed-norm H_2/H_∞ controller synthesis, 11A277

HADDAD, YM: Identification of residual impact properties of materials by Acousto-ultrasonics: A Pattern Recognition approach, 3A735

- Dynamic system identification of the response behavior of linear viscoelastic materials, 8A414

- Acousto-ultrasonics approach to the characterization of impact properties of a class of engineering materials, 10A284

HADDON , RAW: Use of empirical Green's functions, spectral ratios, and kinematic source models for simulating strong ground motion, 12T1392

HADDOW, JB: Finite element formulation for finite static axisymmetric deformation of hyperelastic membranes, 1A611

- Two theorems on statical indeterminacy of structures, 6A710

- Note on hyperbolic heat conduction in a rigid solid, 6A1112

- Plane harmonic waves for three thermoelastic theories, 9A1277

HADI, AS: Measurement and theoretical modeling of the damping properties of a unidirectional glass-epoxy composite, 12A550

HADI, MNS: Manipulation of engineering design calculations by a calculation processing system - I: Theory, 1A949

HADIAN , J: Prediction of high temperature metal matrix structural material failure using a massively parallel computer, 5A483

HADID, HA: Free vibration of beams and oblique panels by spline-integral method, 7A142

- Free vibration analysis of cantilever cylindrical tanks, 8A123

HADJICONTIS, V: Electric signals recorded during uniaxial compression of rock samples: Their possible correlation with preseismic electric signals, 3A1299

HADJIKOV, L: Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, 9A253

HADJIPROCOPIOU, M: Experimental results and FE modeling of an embedded polarimetric sensor, 2A425

HADLEY, I: Use of failure assessment diagrams for the prediction of cleavage fracture in structural applications from the behavior of sub-sized specimens, 1T775

HADLEY, P: Mathematical modeling of the thermal performance of a phase-change material store: Cooling cycle, 11A1240

HADRBOLETZ, A: Experimental K-calibration for corner cracks under bending loading, 6A640

HADWICH, V: Principle of virtual work in mechanical and electromechanical systems, 1A418

HADY, FM: Mixed convection boundary layer flow on a continuous flat plate with variable viscosity, 8A1094

HAFTKA, RT: Sensitivity algorithms for an inverse design problem involving a shock wave, 1A243

- Improved genetic algorithm for the design of stiffened composite panels, 4A557

- Static shape control of space trusses with partial measurements, 5A756

- Comparison of probabilistic and deterministic optimizations using genetic algorithms, 6A712

- Topology optimization of transport wing internal structure, 7T1161

- Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, 11A797

- Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808

- Combining genetic and deterministic algorithms for locating actuators on space structures, 12A860

- Derivative based approximation for predicting the effect of changes in laminate stacking sequence, 12A810

HAGE, W: Drag reduction with the slip wall, 10T1143

HAGEMANN, G: Influence of rocket design parameters on engine nozzle efficiencies, 6A1208

HAGEMEIER, R: Combined tension and bending testing of tapered composite laminates, 1A585

HAGEMEYER, DA: Aeroelastic effects on the B-2 maneuver response, 1A1110

HAGEN, MJ: Effects of ingested atmospheric turbulence on measured tail rotor acoustics, 7A313

HAGENIERS, OL: Double pass retroreflection for corrosion detection in aircraft structures, 6A694

HAGER, AM: Recent advances in polymer composites' tribology, 5A777

HAGER, JO: Effects of implicit preconditioners on solution acceleration schemes in CFD, 11A873

HAGER, WH: Energy Dissipators - IAHR Hydraulic Structures Design Manuals 9, 12N40

- Non-breaking undular hydraulic jump, 4A918

HAGGBLAD, H-A: Micro mechanical based constitutive model for FE simulation of hot isostatic pressing of powder, 5A584

HAGHIGHI, K: Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part I: Theoretical considerations, 12A1222

- Error estimation and adaptivity in FE analysis of convective heat transfer problems - Part II: Validation and applications, 12A1223

HAGI, H: Hydrogen embrittlement of mild steel charged cathodically with hydrogen: Effect of dissolved hydrogen and hydrogen damage on elongation of mild steel, 10A745

HAGINO, T: Free vibration analysis of anisotropic rectangular plates with various boundary conditions, 4A167

HAGIWARA, I: Dynamic system identification by neural network: A new fast learning method based on error back propagation, 6A270

HAGIWARA, J: Simulation of time-dependent distribution of abrasive grain size in lapping: Second Report - Discussion on a breakage probability, multiplication rate and transition probability of abrasive grains (Japanese), 3T630

HAGIWARA, M: Loadability of bolt-nut assemblies: Determination of critical nut height by staircase method, 9A1031

HAGIWARA, T: Stress level and soil structure effects on bearing capacity characteristics of naturally deposited sand (Japanese), 7A704

- Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, 10A427

- Absolute stability of sampled-data systems with a sector nonlinearity, 12A320

HAGMEIJER, R: Invertibility of mappings arising in 2D grid generation problems, 8A55

HAGOOD, NW: Shape memory ceramic actuation of adaptive structures, 4A799

HAGWOOD, C: Stochastic modeling of a new spectrometer, 4A1290

HAH, C: Endwall and unsteady flow phenomena in an axial turbine stage, 5A1055

- Effect of tip clearance on a swept transonic compressor rotor, 11A1059

- Flow analyses in a single-stage propulsion pump, 11A1073

HAHN, DG: Concepts for wave-excited offshore structures, 2A787

HAHN, EJ: Transient analysis of squeeze-film dampers with oil hole feed, 2A1051

- Eccentric operation and blade-loss simulation of a rigid rotor supported by an improved squeeze film damper, 5A817

- Experimental evaluation of squeeze film dampers without centralizing springs, 8T102

HAHN, GT: Contribution of surface irregularities to rolling contact plasticity in bearing steels, 5A439

- Influence of indent geometry on repeated 2D rolling contact, 5T800

- Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, 5A779

- Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, 5T9

HAHN, HT: Visualization of representative volume elements for 3D four-step braided composites, 9A537

HAHN, OJ: Free expansion study of liquid nitrogen, 1A1061

- Effect of spray characteristics on spray cooling with liquid nitrogen, 3A1084

HAHN, TO: Detailed oxidation kinetics and flame inhibition effects of chloromethane, 10A1368

HAHNER, P: Generalized criterion of plastic instabilities and its application to creep damage and superplastic flow, 3A667

HAI LIN, LI: Structures induced by periodic acoustic excitation of a diffusion flame, 3A1218

HAIDER, H: Transmission line modeling of simulated drill strings undergoing water-hammer, 7A285

HAIGIS, JR: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260

HAIGLER, KJ: Sensitivity derivatives for advanced CFD algorithm and viscous modeling parameters via automatic differentiation, 11T910

HAIHANG, WANG: Studies of multi-frequency digital controller of electromagnetic damper (Chinese), 3A170

HAILEY , JL: Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, 6A796

HAINES, PD: Equilibrium of bolted joints subjected to in-plane external loading, 2A832

HAITAO, CAI: Crack problem of two bonded half orthotropic planes materials, 4A724

HAJALI, R: Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, 4A574

HAJEK, V: Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), 11A149

HAJELA, P: Genetic algorithms in truss topological optimization, 1A871

- Free vibration of generally layered composite beams using symbolic computations, 5A120

- Identification of parameter coupling in turbine design using neural networks, 11A1041

HAJI-SHEIKH, A: Laser doppler anemometry measurements of bubble rise velocity and departure frequency, 4A1195

- Effect of turbulence on heat transfer in stagnation flow, 10A1178

HAJJI, A: Theoretical and experimental investigation of a constant-pressure adsorption process, 2A1079

- Improving the performance of adsorption heat exchangers using a finned structure, 8A1191

HAJJI, L: Simple description of some inertia effects in the behavior of heavy particles in a turbulent gas flow, 11A928

HAKALA, M: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818

HAKIM OKLEH, A: Effect of surfactants on the wave growth and transition to slug flow, 5A201

HAKIM, S: Improved multivariate reanalysis of structures based on the structural variation method, 7A903

- Quasistatic optimal actuator placement with minimum worst case distortion criterion, 12A827

HALABE, UB: Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, 7A888

- Radar signal interpretation using neural network for defect detection in concrete, 8A344

HALASZ, G: Image processing system for measuring geometrical properties of fibers and yarns, 6T590

HALATCHEV, I: Linear stability in systems with intensive mass transfer - III: Liquid-liquid, 11A1265

- Linear stability in systems with intensive mass transfer - II: Gas-liquid, 11A1264

- Linear stability in systems with intensive mass transfer - I: Gas (liquid)-solid, 11A1263

- Linear stability in systems with intensive mass transfer - IV: Gas-liquid film flow, 11A1266

HALDAR, A: Bridge fatigue damage evaluation and updating using non-destructive inspections, 8A592

HALDAR, K: Application of Adomian's approximations to the Navier-Stokes equations in cylindrical coordinates, 12A1051

HALDENWANG, P: Collocation method for convective flow induced by directional solidification in a cylinder, 8A66

HALE, JS: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252

HALFMAN, RL: Aeroelasticity, 12N5

HALFORD, GR: Structurally compliant rocket engine combustion chamber - Experimental and analytical validation, 1A1345

- Large-displacement structural durability analyses of simple specimens emulating rocket chambers, 6A479

HALKYARD, CR: Structural intensity in beams-waves, transducer systems and the conditioning problem, 1A187
HALL , DD: Optimization of quench history of aluminum parts for superior mechanical properties, 3A1182
HALL , SR: Energy flow modeling of interconnected structures: A deterministic foundation for statistical energy analysis, 3A108
HALL III, CA: Natural convection in a corrugated enclosure with mixed boundary conditions, 7A1213
HALL, AE: Experimental investigation of jet fan aerodynamics using wind tunnel modeling, 12A1186
HALL, CA: Characteristic-like method for thermally-expandable flow on unstructured triangular grids, 10A40
HALL, CD: Spinup dynamics of gyrostats, 3A91
- Motion of a rigid body with an attached spring-mass damper, 4A114
- Resonance capture in unbalanced dual-spin spacecraft, 4T299
- Double averaging approach to the study of spinup dynamics of flexible satellites, 6A93
- Approximate initial Lagrange costates for continuous-thrust spacecraft, 8T307
HALL, DG: Inlet acoustic mode measurements using a continuously rotating rake, 1A362
- Assessment of noise control measures for a model advanced ducted propulsor, 11A258
HALL, DR: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562
HALL, E: Toxicity of organic chemicals and their mixtures to activated sludge microorganisms, 10A1454
HALL, G: Varying the componentwise order of the multistep methods in solving ODEs and its absolute stability, 7A82
HALL, IW: Modeling the effect of fiber breakage on the elastic properties of short-fiber composites, 1A543
HALL, JF: Beam-column modeling, 6A469
- Near-source ground motion and its effects on flexible buildings, 7A1379
HALL, JL: Robust motion tracking controllers for uncertain robot manipulators, 6A364
HALL, KC: Computation of steady and unsteady viscous flows using a simultaneously coupled inviscid-viscous interaction technique, 1A999
- Sensitivity analysis of unsteady aerodynamic loads in cascades, 2A1037
- Reduced order model of unsteady flows in turbomachinery, 5A1075
HALL, LD: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
HALL, MG: Static *in situ* calibration of force plates, 8A1441
HALL, MJ: Measurements of pore scale flows within and exiting ceramic foams, 10A1414
HALL, MV: Acoustic reflectivity of a sandy seabed: A semianalytic model of the effect of coupling due to the shear modulus profile, 1A302
HALL, P: Phase-equation approach to boundary-layer instability theory: Tollmien-Schlichting waves, 6A981
HALL, RM: Frictional resistance of new and explanted artificial hip joints, 5A771
- Measurement of wear in retrieved acetabular sockets, 6A1366
HALL, TJ: Measurements of ultrasonic backscatter coefficients in human liver and kindey *in vivo*, 3A273
HALL, WS: Numerical simulation of the initiation and growth of new fatigue cracks following crack intersections, 1A742
- Boundary element analysis of crack intersection, initiation and growth at pin loaded holes, 2A46
HALLER, G: Quasiperiodic oscillations in robot dynamics, 4A126
- Geometry and chaos near resonant equilibria of 3-DOF Hamilton systems, 8A84
HALLEUX, JP: Algorithm for permanent fluid-structure interaction in explicit transient dynamics, 5A231
HALLIDAY, MD: In situ SEM measurements of crack closure for small fatigue cracks in aluminum 2024-T351, 1A758
HALLINAN, KP: Behavior of a meniscus subjected to transient accelerations for increasing capillary numbers, 1A1283
HALLINAN, TJ: VLF wave experiments in space using a modulated electron beam, 1A277
HALLING, J: Retired lecturer's presentation of the theory of friction first presented by Bowden and Tabor, 1T935
HALLING, MW: Near-source ground motion and its effects on flexible buildings, 7A1379
HALLIWELL, NA: Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, 7A1192
- Laser torsional vibrometer: A step forward in rotating machinery diagnostics, 8A164
HALLO, L: Numerical simulations of a 3D nozzle, from inviscid to turbulent flows, 6A932
HALLWORTH, MA: Entrainment into 2D and axisymmetric turbulent gravity currents, 8A874
HALPERN, L: Absorbing boundary conditions for diffusion equations, 1A1299
- Spectral methods in polar coordinates for the Stokes problem: Application to computation in unbounded domains, 9A1093
HALSMER, DM: Nutational stability and passive control of spinning rockets with internal mass motion, 3T90
HAMAD, BS: Bond strength of noncontact tension lap splices, 11A747
HAMADA, H: Design of knitted fabric reinforced composites, 2A422
- Crushing mechanism of carbon fiber-PEEK composite tubes, 2A417
- Scaling effects in the energy absorption of carbon-fiber-PEEK composite tubes, 6A425
- Effect of testing temperature on the energy absorption behavior of carbon fiber-PEEK composite tubes, 7A555
- Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
- Effect of fiber orientation on the energy absorption capability of carbon fiber-PEEK composite tubes, 12A533
- Damage modes in impact loading of glass woven fabric composites, 12A752
HAMADA, K: Relationship between the mechanical behavior and the state of porewater in unsaturated soil (Japanese), 10A648
HAMADA, R: Giant magnetostriction actuator of laminated plate type (Japanese), 1A421
HAMADA, S: Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), 2A775
- Weldability of neutron-irradiated type 316 stainless steel, 11A840
HAMAMATSU, H: Study on coupled torques in contouring control of articulated robot mechanism (Japanese), 9A456
HAMAMOTO, T: Stochastic fluid-structure interaction of large circular floating islands during wind waves and seaquakes, 6A218
HAMAMOTO, Y: Turbulent premixed flames in closed combustion chambers, 7A1310
HAMAO, T: Effect of interfacial strength on erosion behavior of FRPs, 8A640
HAMASAKI, H: Flutter stability of decks for super long-span bridge (Japanese), 11A225
HAMASAKI, Y: Multilayer eddy current micro sensor for nondestructive inspection of small diameter pipes (Japanese), 9T874
HAMASUNA, M: Inertia effects on film rupture in hydrodynamic lubrication, 5A1092
HAMAZAKI, Y: Improved practical formulas for estimation of cable tension by vibration method (Japanese), 5T497
HAMBLIN, MG: Multi-scale measure of particle abrasivity, and its relation to two-body abrasive wear, 5A786
HAMDAN, FH: Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part I: An introduction to numerical treatment, 9A327
- Fluid-structure interaction: Application to structures in an acoustic fluid medium - Part 2: Literature review on near-field and far-field fluid formulations, 9A328
HAMDAN, MA: Thermal energy storage using a phase-change material, 8A1217
HAMDAN, MH: Dusty gas flow through porous media, 7A1358
- Effects of coordinate transformation and differencing schemes on matrix structure and convergence history, 11A42
HAMDAN, MN: Dynamic response of the flow induced vibration of smooth and rough single cantilever circular cylinders, 4A153
HAME, PG: Evolution of flight vehicle system identification, 7A981
HAMED, A: Numerical Simulations in Turbomaschinery - 1995 ASME/JSME Fluids Eng Conf, 2N45
- Shock-wave and boundary-layer interactions with bleed - Part I: Effect of slot angle, 4A1028
- Shock-wave and boundary-layer interactions with bleed - Part 2: Effect of slot location, 4A1029
- Effects of variational particle restitution characteristics on turbomachinery erosion, 5A227
- Flow characteristics in boundary-layer bleed slots with plenum, 8A947
- Three-dimensional flow field measurements using LDV in the exit region of a radial inflow turbine, 12A1185
HAMED, MM: Probabilistic screening tool for ground-water contamination assessment, 3T1396
HAMERNIK, TA: Optimal placement of damped struts using simulated annealing, 1A876
HAMI, A-EL: Decomposition methods in the analysis of repetitive structures, 5A725
HAMID, AA: Flexural behavior of reinforced concrete masonry walls under out-of-plane monotonic loads, 11A753
HAMID, HA: Influence of joint detail on the flexural-torsional interaction of thin-walled structures, 5A12
HAMIDZADEH, HR: Free vibration of thick multilayer cylinders, 1A158
HAMILTON, MF: Measurements of harmonic generation in a focused finite-amplitude sound beam, 5A293
- Time-domain modeling of finite-amplitude sound in relaxing fluids, 12A313
HAMILTON, R: Theoretical study on the influence of some constituent material properties on the behavior of 1-3 connectivity composite transducers, 3A747
- Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, 9A521
HAMILTON, RW: Shear strength of beams with corrugated webs, 10A599
HAMINS, A: Heat release mechanisms in inhibited laminar counterflow flames, 7A1326
HAMMAD, KJ: Heat transfer in flows of non-Newtonian Bingham fluids through axisymmetric sudden expansions and contractions, 1A1210
- Creeping flow of a Bingham plastic through axisymmetric sudden contractions with viscous dissipation, 8A1105
HAMMAMI, A: Directional permeability measurement of deformed reinforcement, 12A486
HAMMAR, L: Frazil evolution in channels, 1A983
HAMMERSLEY, G: Fatigue crack initiation and propagation on shot-peened surfaces in A316 stainless steel, 4A670
HAMMERSTEDT, RH: Versatile fluid-mixing device for cell and tissue microgravity research applications, 7A306
HAMMERTON, PW: Boundary-layer receptivity for a parabolic leading edge, 9A1134
HAMMOND, JK: Estimation of parameters of a nonstationary random process due to a moving source based on the covariance-equivalent model, 2A234
- Analysis of nonstationary signals using time-frequency methods, 8A68
- Interpretation of singular values in the inversion of minimum and non-minimum phase systems, 12A342
HAMMOUDA, MMI: Significance of crack tip deformation for short and long fatigue cracks, 10A740
HAMOUINE, A: Pull-out strength of bars embedded in high performance concrete (French), 5A711
HAMOUSH, SA: Inelastic analysis of sections subjected to axial force and bending moment, 7A532
- Fracture toughness of concrete, 7A845
HAMPEL, G: Novel technique of pulse-echo ultrasound detection in the RF-frequency range, 9A395
HAMPTON, RD: Microgravity isolation system design: A modern control analysis framework, 7A214
- Microgravity isolation system design: A case study, 7A215
- Microgravity isolation system design: A modern control synthesis framework, 7A213
- Practical solution to the deterministic nonhomogeneous LQR problem, 12A357
HAMROCK, BJ: Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, 2T1058
- Ultrathin liquid lubrication of magnetic head-rigid disk interface for near-contact recording - Part I: A closed-form solution to the Reynolds equation, 10A998
- Ultrathin liquid lubrication of magnetic head, rigid disk interface for near-contact recording - Part II: Shear thinning and thermal thinning, 10A959
HAMURO, Y: Experimental verification of the theory of tangential grinding force and the rates of grinding actions: Grinding actions of the pored type diamond wheel with vitrified bond - Part 2 (Japanese), 1A731
HAMZA, EA: Similarity solutions for the squeezed film flow between two rotating naturally permeable discs, 11A883
HAMZA, FA: Generalized 2D thermoelastic problems in spherical regions under axisymmetric distributions, 7A1279
HAN , GUOQIANG: Extrapolation of a discrete collocation-type method of Hammerstein equations, 4A71
HAN, B: Thermal deformation analysis of various electronic packaging products by moire and microscopic moire interferometry, 3A1188
HAN, CHO YOUNG: Radiative ignition of volatile gases on a vertical fuel plate, 7A1258
HAN, FENG: Interaction of plane SH-waves and circular cavity surfaced with lining in anisotropic media, 8A175
HAN, GANG: Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, 2A573
HAN, GUOCHENG: Simplified formula of the natural period of CFRD (Chinese), 4A621
HAN, GUOQIANG: Asymptotic error expansion of a collocation-type method for Hammerstein equations, 1T9
HAN, HOUDE: Artificial boundary condition for 2D incompressible viscous flows using the method of lines, 9A1065
- Nonlocal artificial boundary conditions for the incompressible viscous flow in a channel using spectral techniques, 11T880
HAN, J-B: Differential quadrature method for thick symmetric cross-ply laminates with first-order shear flexibility, 11A491
HAN, J-C: Effect of film hole row location on film effectiveness on a gas turbine blade, 11A1096
HAN, JB: Differential quadrature method for Mindlin plates on Winkler foundations, 7A639
HAN, JC: Effective elastic properties of 3D carbon-carbon composites at high temperature, 12A563
HAN, JE-CHIN: Local heat transfer in a rotating two-pass ribbed triangular duct with two model orientations, 5A1143
- Prediction of turbulent heat transfer in rotating smooth square ducts, 11A1143
HAN, JIECAI: Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, 1A682
HAN, KILRYONG: New resolution scheme of the forward kinematics of parallel manipulators using extra sensors, 12A444
HAN, KS: Optimum stacking sequence of composite laminates for maximum strength, 1A559
HAN, KYUNG SEOP: Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, 9A195
HAN, LEI: Application of the integrating fiber optic sensor for vibration monitoring, 1A170
HAN, MAN YOP: Theoretical prediction of drying shrinkage of concrete, 3A490
HAN, QIANG: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, 9A638
HAN, RH: Cyclic load tests on prestressed concrete model frames, 8A755
HAN, RPS: Damage zones in strain-hardening materials, 9A785
- Dynamics of a bouncing ball with a sinusoidally vibrating table revisited, 10A101
HAN, S: Effect of ultrasonically determined anisotropy on longitudinal fracture of cortical bone, 12A1444
HAN, SEJIN: Study on wire sweep in encapsulation of semiconductor chips using simulated experiments, 3A902
HAN, SH: Application of DCOC to optimum prestressed concrete beam design, 7A946
- Minimum cost design of multispan partially prestressed concrete beams using DCOC, 11A725
HAN, SIXIONG: Numerical modeling for scattering of waves in 3D cracked material, 5A185
HAN, TAEYOUNG: Transient thermohydrodynamic analysis including mass conserving cavitation for dynamically loaded journal bearings, 5A1105
HAN, WANZHI: Statistical properties of response for nonlinear structural systems with random parameters, 5A171
HAN, WEIJAN: Overview of recycling issues for composite materials, 8A1407
HAN, WEIMIN: Finite element method for mixed variational inequalities arising in elastoplasticity, 4A473
- Quantitative justification of simplifications in some heat conduction problems, 4A1198
- Computational plasticity: The variational basis and numerical analysis, 4A471
HAN, XUE-LI: Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - I: Inner crack tip away from or terminating at the interface, 7A826
- Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - II: The crack going through the bimaterial interface into the fiber, 7A827
HAN, XUE-LI: Crack problem of a fiber-matrix composite with a nonhomogeneous interfacial zone under torsional loading - Part I: A cylindrical crack in the interfacial zone, 10A791
HAN, YC: Impedances for radially inhomogeneous viscoelastic soil media, 1A694
HAN, YK: Elastic wave scattering by shelled spherical scatterers in a focused field, 10A263
HAN, YU-LIN: Artificial neural network technology as a method to evaluate the failure bending moment of a pipe with a circumferential crack, 10A447
- Special learning set of a neural network and its application in evaluating the failure bending moments of flawed pipes, 10A451
- Artificial neural network method for flawed pipe failure evaluation: Probabilistic models, 12A728
HAN, Z: Turbulence modeling of internal combustion engines using RNG k-ε models, 3A1243
HAN, ZX: Estimates of local tensile strength of welded joints, 1A499
HANAHARA, K: Application of self-similarity to a large scale adaptive system: Proposal of recursive architecture, 2A246
HANANO, M: Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391
HANAOKA, T: Improvements on belt machined surface flatness by using fuzzy inference based on a simulational method, 1A724
HANAOR, A: Characteristics of prefabricated spatial frame systems, 3A805
- Summary survey of prefabricated spatial frame systems, 3A808
- Design and behavior of reticulated spatial structural systems, 3A806

HANASAKI, S: Drilling performance of new type twist drill, 9T307
HANATANI, K: Capabilities of small computers as image analyzer for quantitative flow visualization, 5A1116
HANAU, T: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
HANBY, RF: Comparison of coupled and segregated iterative solution techniques for incompressible swirling flow, 8A950
HANCHAK, SJ: Penetration of grout and concrete targets with ogive-nose steel projectiles, 10A281
HANCOCK , GJ: Flange curling in profiled steel decks, 7A952
- Design methods for profiled steel decks with intermediate stiffeners, 12A848
HANCOCK, GJ: Structural Stability and Design - Proc of Int Conf, Sydney, Oct-Nov 1995, 12N36
- Square and rectangular hollow sections under transverse end-bearing force, 1A908
- Lateral-buckling tests of cold-formed RHS beams, 3A552
- Butt welds and transverse fillet welds in thin cold-formed RHS members, 3A862
- Longitudinal fillet welds in thin cold-formed RHS members, 3A865
- Behavior of cold-formed SHS beam-columns, 8A476
HANCOCK, JW: Constraint-based failure assessment diagrams, 1T790
HANCOCK, M: Method of assessing the effects of artificial dissipation in Navier-Stokes codes, 11A879
HANCOCK, P: Assessment of weld mismatching, 8A627
HANCZYC, EM: Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems, 11A291
HAND, DW: Destruction of organic compounds in water using supported photocatalysts, 11A1449
HANDE, B: Air bottoming cycle: Use of gas turbine waste heat for power generation, 10A1390
HANDLER, R: Direct numerical simulation of turbulent flow over a modeled riblet covered surface, 4A1078
HANDLER, RA: Dynamics and stability of a vortex ring impacting a solid boundary, 2A867
HANDSCHUH, RF: Computerized design of low-noise face-milled spiral bevel gears, 2A813
- Vibration signature analysis of a fluited gear transmission system, 8A154
HANDZEL-POWIERZA, Z: Three dimensional characteristic of surface microgeometry in tribology (Polish), 6A838
HANE, K: From nanometer to picometer: Improvement of displacement sensors (Japanese), 7T414
HANEBUTTE, UR: Scalability of parallel spatial direct numerical simulations on Intel hypercube and IBM SP1 and SP2, 4A93
HANEL, D: Adaptive solutions for unsteady laminar flows on unstructured grids, 6A899
HANEY, MA: Condensation heat transfer on vertical axis, axisymmetric, rotating surfaces, 3T1087
HANFF, ES: Body-axis rolling motion critical states of a 65-degree delta wing, 9A1214
HANGEN, U: Introduction of a modified linear rule of mixtures for the modeling of the yield strength of heavily wire drawn *in situ* composites, 3A518
HANJALIC, K: Turbulence, Heat, and Mass Transfer - Proc from Int Conter on Heat and Mass Transfer, Ankara, Turkey, 9N21
- Prediction of turbulent thermal convection in concentric and eccentric horizontal annuli, 5A1133
- Natural convection in partitioned 2D enclosures at higher Rayleigh numbers, 7A1214
HANKE, M: Regularization methods for constrained mechanical multibody systems, 4A107
HANLER, M: Mass point moving on a nonsmooth manifold in R^n, 6A112
HANLEY, HJM: Density dependence of fluid properties and non-Newtonian flows: The Weissenberg effect, 4A879
HANLEY, L: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
HANN, LP: Simulating the microbond technique with macrodroplets, 3A507
HANNA, RB: Strain distributions in adhesive wood joints, 11A849
- Finite element modeling of double lap wood joints, 11A20
HANNA, RL: Hypersonic shockwave and turbulent boundary-layer interactions on a porous surface, 3T941
HANNAM, RG: Avoiding human error in CIM implementations, 12T466
HANNANT, DJ: Mathematical model for tensile behavior of hybrid continuous fiber cement composites, 1A542
HANNSEN SU, J: Isolated structural system using localized vibration control, 7A137
HANNUS, S: Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, 3A763
HANRATTY, TJ: Slopes of small-scale wind waves and their relation to mass transfer rates, 2A178
- Turbulence production in flow over a wavy wall, 8A980
HANSBO, P: Advancing front mesh generation in 3D, 4A55
HANSBO, S: Dynamic consolidation of mixed fill: A cost-effective alternative to pilin: A case record, 12T645
HANSEN, AC: Aerodynamic damping of blade flap motions at high angles of attack, 3A998
- Prediction of wind turbine rotor loads using the Beddoes-Leishman model for dynamic stall, 3A999
HANSEN, CH: Wave propagation through cylinder-plate junctions, 3A177
- Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate, 7A169
HANSEN, JS: Substructure synthesis method for non-symmetric viscoelastic systems, 2A390
HANSEN, LP: Fatigue analysis and testing of adhesive joints, 9A756
HANSEN, MR: Multi level approach to synthesis of planar mechanisms, 7A1015
HANSEN, PC: Accuracy of TSVD solutions computed from rank-revealing decompositions, 1A65
HANSEN, PF: Fatigue damage in the side shells of ships, 2A602
- Dilatometer for measuring autogenous deformation in hardening Portland cement paste, 2A452
HANSEN, S: Exact controllability and stabilization of a vibrating string with an interior point mass, 2T241
HANSEN, TB: Spherical expensions of time-domain acoustic fields: Application to near-field scanning, 1A352
HANSON, ML: Reducing flexible base vibrations through local redundancy resolution, 2A344
HANSON, MT: Elastic fields resulting from concentrated loading on a 3D incompressible wedge, 5A411
- Rational source of plane fractals and its application to fragmentation analysis of thin plates, 8A682
- Love's circular patch problem revisited: Closed form solutions for transverse isotropy and shear loading, 11A412
HANSON, RJ: Solving Least Squares Problems, 2N5
HANSON, RK: Instantaneous 3D flow visualization of a supersonic mixing layer, 8A916
- Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049
- Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, 8A1052
HANSON, SB: Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, 12A1489
HANSSON, P-A: Control algorithms for active cab suspensions on agriculture tractors, 12A401
HANSSON, T: In vivo measurement of spinal column viscoelasticity: An animal model, 2T1308
HANUMANTH, GS: Measurement of solidification rate during non-planar solidification, 2A706
HANUSKA, A: Contribution to the dynamics of a horizontally unstretchable half-space of the Westergaard type, 5A471
HAO , JIPING: Thermal post-buckling analysis of circular plate based on displacement type control equation (Chinese), 9A630
HAO, BAI-LIN: Symbolic dynamics of the Lorenz equations, 9A1405
HAO, DS: Full-scale viscoelastically damped steel frame, 2A1254
HAO, GANG: Plastic buckling of stiffened torispherical shell, 6A506
HAO, H: Seismic response of asymmetric structures to multiple ground motions, 3A1327
- Characteristics of torsional ground motions, 12A1376
HAO, HONG: Multiple excitation effects on response of symmetric buildings, 12A1383
HAO, OUYANG: Screw dislocations near a crack penetrating through an interface, 12A758
HAO, QIANG: Plastic buckling of stiffened torispherical shell, 6A506
HAO, TH: Fracture mechanics for the design of ceramic multilayer actuators, 6A638
HAO, XIANWEI: Design of Lifetime Predication System of reformer tubes (Chinese), 11A640
HAPPEE, R: Control of shoulder muscles during goal directed movements, an inverse dynamic analysis, 1A1444
HAQUE, A: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669
HAQUE, I: Configurations of symbolic equations of motion for rigid multibody systems, 2A66
HAQUE, MI: Optimal frame design with discrete members using the complex method, 9A888
HAQUE, MM: Simulation of displacement sensitive nonlinear dampers via integral formulation of damping force characterization, 4A221
HARA, F: Analysis of the neural network recognition characteristics of six basic facial expressions, 12A1482
HARA, T: Study of proposed design equation for the shear strength of R-C beams subjected to axial tension (Japanese), 2A764
- New method for theoretical analysis of static indentation test, 8A1439
- Nonlinear FE analysis of a reinforced concrete cooling tower shell, 11A531
- Evaluation of pattern planarization polishing process (Japanese), 11T618
HARA, Y: System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, 7A899
- Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, 9A1253
- Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
HARADA, N: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, 3A287
HARADA, S: Efficient and accurate determination of mode I type 3D surface crack by measuring strain around the crack on the idea of the body force method, 6A691
HARADA, Y: Corrosion behavior of thermal sprayed carbide cermet costings (Japanese), 6A618
HARAGUCHI, N: Observation of light pulses at micro-fractures of solid and the temperature estimation of the part by spectral data (Japanese), 9A866
HARARI, I: Dynamic analysis and drilling dof, 2A480
HARASGAMA, SP: Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, 5A1081
HARBAUGH, AS: Deflagration to detonation transition fueled by dust layers, 5A213
HARDAKER, C: Measurement of wear in retrieved acetabular sockets, 6A1366
HARDCASTLE, PJ: Constraining acoustic backscatter estimates of suspended sediment concentration profiles using the bed echo, 3A256
HARDELL, C: Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, 7A199
HARDEN, JL: Effect of added triblock copolymer on the nonlinear rheology of ordered diblock copolymer mesophases, 6A863
HARDER, NA: Theory of brittleness in stress-softening models of fracture mechanics, 8A611
HARDIN, J: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347
HARDING, AJ: Suppression of sea-floor-scattered energy using a dip-moveout approach: Application to the mid-ocean ridge environment, 11A1378
HARDING, JE: Torsional buckling of outstands in longitudinally stiffened panels, 5A535
- Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, 10A9
HARDISTY, H: Analysis and computer simulation of the electrochemical machining process: A stepped moving tool eroding a plane surface, 10A719
HARDWICK, JD: Standing waves at an outfall, 12T1019
HARDY, MSA: Investigation of anti-lock braking strategies for heavy goods vehicles, 4A850
HARDY, SJ: Effect of masonry cracks on the composite action between steel lintels and masonry walls, 1A903
- Composite action between steel lintels and masonry walls, 3A811
- Elastic-plastic FE analysis of short flat bars with projections - Part 1: Shear loading, 6A407
- Elastic-plastic FE analysis of short flat bars with projections - Part 12 Axial loading, 6A408
- Assessment of the notch stress-strain conversion rules for short flat bars with projections subjected to axial and shear loading, 8A591
HARI, U: Plane generation strategies for a knowledge-based automated process planning system, 4A416
HARICHANDRAN, RS: Response of long-span bridges to spatially varying ground motion, 10A1431
HARIK , IE: Free-vibration analysis of compressed clamped circular plates, 6A133
HARIK, IE: Seminumerical method for buckling of sector plates, 2A496
- Free vibration on stiffened sector plates, 8A115
HARIKUMAR, HK: High precision thickness-stretch deformation element for the analysis of symmetrical laminates under extension, 1A37
HARING, M: Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, 5A1081
HARISH, MV: Comparison of some simulation algorithms on basis of distribution, 7A69
HARIZ, A: Field-emitter cathode for acceleration sensors, 6T349
HARJES, H-P: Monitoring nuclear test sites with GERESS, 11A1390
HARLECKI, A: Certain methods of considering dry friction in dynamic analysis of planar open kinematic chains, 3A79
HARLEN, OG: Split Lagrangian-Eulerian method for simulating transient viscoelastic flows, 3A456
HARLOFF, GJ: Supersonic-inlet boundary-layer bleed flow, 9A1154
HARLOW, FH: Spectral transport model for turbulence, 7A1132
HARMATZ, M: Computational estimate of the separation effect, 5A1017
HARMIA, T: Comparison of the fracture and failure behavior of polypropylene composites reinforced by long glass fibers and by glass mats, 2A642
HARMSEN, M: Si-modified ZA alloy for journal bearing applications, 10A996
HARNOY, A: Model-based investigation of friction during start-up of hydrodynamic journal bearings, 5A1096
- Hydro-roll: A novel bearing design with superior thermal characteristics, 8A815
- Modeling of dynamic friction in lubricated line contacts for precise motion control, 8A1037
HARONIAN, D: Spring suspended corrugated membranes, 6T351
HAROUN, MA: Large amplitude liquid sloshing in seismically excited tanks, 12A258
HARP, EL: Shaking intensity thresholds for rock falls and slides: Evidence from 1987 Whittier Narrows and Superstition Hills earthquake strong-motion records, 6A1268
HARPER, BD: Finite element viscoelastic analysis of temperature and moisture effects in electronic packaging, 3A516
HARRAS, B: Optimization of the ultrasonic welding of PEEK-carbon composites, 8A656
HARRELL, R: Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, 12A423
HARREN, SV: Effect of mechanical constraint on the flow and fracture of 63-37 Sn-Pb eutectic alloy, 2A628
HARRINGTON, DS: Calibration of the localized DCPD method for crack shape measurement using the BEM, 1A53
HARRINGTON, ME: Measurement system for the recognition of arm gestures using accelerometers, 2A1291
HARRIS , SB: Business strategy and the role of engineering product data management: A literature review and summary of the emerging research questions, 11T405
HARRIS MC CLAMROCH, N: Stabilizing feedback laws for internally actuated multibody systems in space, 9T138
HARRIS, CJ: Advanced system concepts for future civil aircraft: An overview of avionic architectures, 6A778
- Auto-tuning of low-order controllers by direct manipulation of closed-loop time domain measures, 9A404
- Modeling and control of nonlinear, operating point dependent systems via associative memory networks, 9T416
HARRIS, CM: Shock and Vibration Handbook, Fourth Edition, 6N8
HARRIS, H: Installation, testing, and lessons learned of the TF40B gas turbine test facility, 10A1395
HARRIS, HG: Flexural behavior of reinforced concrete masonry walls under out-of-plane monotonic loads, 11A753
HARRIS, JA: Linear dynamics of wind waves in coupled turbulent air-water flow - Part 2: Numerical model, 8A202
HARRIS, JE: Unified turbulence closure model for axisymmetric and planar free shear flows, 4A1075
HARRIS, K: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223
HARRIS, PJ: Numerical method for modeling the motion of a spherical bubble, 11A939
- Numerical determination of the Kelvin impulse of a bubble close to a submerged rigid structure, 12A1092
HARRIS, RM: Predicting the behavior of slipper pads in swashplate-type axial piston pumps, 9A1237
HARRIS, SE: Sonic shocks governed by the modified Burgers' equation, 11A191
HARRIS, SR: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
HARRIS, TA: Accuracy of rolling bearing fatigue life prediction, 10A1006
HARRISON, CH: Formulas for ambient noise level and coherence, 9A351
HARRISON, DJ: Benchmark problems for defect size and shape determination in eddy-current NDE, 12A798
HARRISON, DK: Expert system shell for the selection of metal-cutting parameters, 7A740
HARRISON, IK: Free molecule aerodynamic investigation using multiple satellite analysis, 8A925
HARRISON, L: Comparison of irradiance measurements made with the multi-filter rotating shadowband radiometer and first-class thermopile radiometers, 5A1350
HARRISON, PN: Mixed variational formulation for interlaminar stresses in thickness-tapered composite laminates, 10A568
HART, ED: Combined equation for sizing timber columns, 3A791
HART, GC: Analysis of concrete masonry beams, 3A771
HART, JE: Nonlinear Ekman suction and ageostrophic effects in rapidly rotating flows, 3A900
- Symmetry, sidewalls, and the transition to chaos in baroclinic systems, 4A128

- Instability of oscillatory Stokes-Stewartson layers in a rotating fluid, 9A1175
HART, JM: Performance of a muscle-like "leaky" pneumatic actuator powered by modulated air pulses, 11A394
HART, MJ: Compact finite burn targeting and reconstruction algorithm, 12T382
HART, RT: Computer Simulations in Biomedicine, 3N48
HART, VG: Initially deformed dissimilar elastic tubes containing fluid flow, 5A226
- Effects of initial deformation in thin tubes on wave reflection and transmission at mechanical mismatch, 6A197
HART-SMITH, LJ: Re-examination of the analysis of in-plane matrix failures in fibrous composite laminates, 9A823
HARTBOWER, PE: Structural Materials Technology: An NDT Conference - 2nd Conf, February 1996, San Diego CA, 11N37
HARTELT, M: Tribological characterization of thin hard coatings by reciprocating sliding tests, 6T839
HARTEN, A: Application of generalized wavelets: An adaptive multiresolution scheme, 4A286
HARTFIELD JR, RJ: Experimental investigation of angled injection in a compressible flow, 8A946
HARTIKAINEN, J: Bearing capacity of shallow foundations on slopes, 9A675
HARTLE, SL: Evaluating convective heat transfer coefficients using neural networks, 11A1160
HARTLEY, JG: Comparison between theoretical models and experimental data for the spreading of liquid droplets impacting a solid surface, 12T1237
HARTLEY, P: Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, 12A674
HARTMANN, J: Evaluation of instationary flow fields using crosscorrelation in image sequences, 7A1197
HARTNETT, JP: Heat transfer behavior of Reiner-Rivlin fluids in rectangular ducts, 7A1223
HARTSE, HE: Single-station spectral discrimination using coda waves, 3A1280
HARTT, WH: Response of short cracks in high-strength steels to fatigue loadings - Part I: Behavior in air and freely corroding in seawater, 5A600
- Response of short cracks in high-strength steels to fatigue loadings - Part II: Behavior in seawater under cathodic polarization, 5A601
HARTWIG, J: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283
HARTZELL, SH: Earthquake site response in Santa Cruz, California, 11A1385
HARUN, M: Effect of element additions on wear property of eutectic aluminum-silicon alloys, 12A901
HARVEY, J: Rarefied Gas Dynamics 19, Vol 1 and 2, 5N26
HARVEY, JK: Simulation of chemically reacting flowfields around a 70-deg spherically blunted cone, 1A1022
- Atomic species radiation from air modeled with direct simulation Monte Carlo method, 1A1021
- Modeling of chemical reactions in hypersonic rarefied flow with the direct simulation Monte Carlo method, 10A1096
- Maximum entropy analysis of chemical reaction energy dependence, 10A1102
- Comparison of maximum entropy direct simulation Monte Carlo code with flowfield measurements, 12A1081
HARVEY, R: Effect of vortices on liquid outflow from vessels, 4A955
HARVEY, SJ: Fatigue and ratcheting interactions, 4A676
- Hardening interaction in cyclic creep of a type 316 stainless steel at 20°C and 500°C, 10A753
- Application of a kinematic hardening model for assessing ratcheting in pressurized pipes, 11A451
HARWOOD, AH: Practical, economical and precise volume change measurement device, 2T519
HARWOOD, NM: Long-periodic and secular perturbations to the orbit of a spherical satellite due to direct solar radiation pressure, 1A269
- Long-periodic and secular perturbations to the orbits of Explorer 19 and Lageos due to direct solar radiation pressure, 1A270
HAS, Z: Mechanical properties of surface strengthened materials and designing of surface layers, 9A984
HASAN, AA: Specific heat capacities of pure triglycerides by heat-flux differential scanning calorimetry, 6A1063
HASAN, M: Numerical study of coupled turbulent flow and solidification for steel slab casters, 1A1214
HASAN, WM: Crack detection from the variation of the eigenfrequencies of a beam on elastic foundation, 2A90
HASANEIN, HA: Forced convection in-tube steam condensation in the presence of noncondensable gases, 11A1177
HASANOV, A: Inverse problem for an elastoplastic medium, 4A465
HASEBE, M: Noise reduction characteristics of porous elastic road surfaces, 12A297
- Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295
HASEBE, N: Axially symmetric thermal stress of an external circular crack under general thermal conditions, 1A1288
- Bimaterial plane with elliptic hole under uniform tension normal to the interface, 2A641
- New integration scheme for the branch crack problem, 4A746
- Thin plate bending problem of dissimilar strips with two bond lines, 5A416
- Axially symmetric thermal stress of a penny-shaped crack under general heat flux, 5A1192
- Properties of eigenfunction expansion form for the rigid line problem in dissimilar media, 5A390
- Branching problem of crack and debonding at an end of stiffened boundary for thin plate bending (Japanese), 5A502
- Axisymmetric displacement boundary value problem for a penny-shaped crack, 5A396
- Thin plate bending of dissimilar half-planes with interface debonding emanating from an elliptical hole, 8A660
- Stresses in the neighborhood of a crack tip under effects of electromagnetic forces, 8A525
- Stress concentration factors at an elliptical hole on the interface between bonded dissimilar half-planes under bending moment, 9A482
- Stress analysis of bimaterial strip with debondings under tension, 10A774
HASEEB, ASMA: Study of wear of as-cast and heat-treated spheroidal graphite cast iron under dry sliding conditions, 3A828
HASEGANU, EM: Equilibrium analysis of finitely deformed elastic networks, 10A608
HASEGAWA, H: Tension of elastic solid with elastic circular-cylindrical inclusion, 10A522
HASEGAWA, K: Railgun pellet injection system for fusion experimental devices, 4T857
HASEGAWA, M: Characterization of cut and ground surface (Japanese), 5T568
- Calculation of the fractal dimensions of machined surface profiles, 10A989
HASEGAWA, N: Statistical fatigue properties of ductile cast irons (Japanese), 3A654
HASEGAWA, S: Study on two-phase flow instability in parallel multi-channels, 7A1116
HASEGAWA, S-I: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
HASEGAWA, T: Flame propagation along a fine vortex tube, 5A1219
- Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, 11T1329
HASEGAWA, Y: Drilling performance of new type twist drill, 9T707
HASGUR, Z: Nonstationary frequency effect of the ground motion upon the strength levels of the shear type RC structures, 4A1332
HASH, DB: Assessment of schemes for coupling Monte Carlo and Navier-Stokes solution methods, 10A1115
HASHEM, A: Some mechanistic observation on water-deteriorated dental composite resins, 2A1306
HASHEMI, A: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3, 3N34
HASHEMI, AB: High-power electronics heat rejection from aircraft skin, 11A1242
HASHEMI, S: Interpretation of singular values in the inversion of minimum and non-minimum phase systems, 12A342
HASHIMOTO, C: Elucidation of concrete flow mechanism in the truck agitator by distribution of velocity vector (Japanese), 6A938
- Stress analysis of transistor structures considering the internal stress of thin films, 10A580
HASHIMOTO, H: Squeeze film characteristics between parallel circular plates containing a single central air bubble in the inertial flow regime, 5T1084
- Static characteristics of high-speed slider bearings lubricated with non-Newtonian fluids: In the case of infinitely long bearings, 6A1047
HASHIMOTO, K: Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), 7A895
HASHIMOTO, M: Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, 3A395
- Experimental research in cutting force variation during primary chatter vibration occurring in plain milling operation, 4A210
- Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486
HASHIMOTO, N: Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293
HASHIMOTO, T: Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), 5A832
- Penetration of ultrafine particles and ion clusters through wire screens, 9A1346
HASHIMOTO, Y: Development of an optical measuring method for spindle rotation accuracy - Measuring principle and consideration on sensitivity (Japanese), 3A728
HASHIMURA, M: Study on interfacial adhesion between cutting tool and microstructures of free-machining steel, 1A730
HASHIN, Z: Finite thermoelastic fracture criterion with application to laminate cracking analysis, 12A732
HASHITANI, H: Self-sensing active vibration control using the moving-coil-type actuator, 5A700
HASHIZUME, M: Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), 10A680
HASHIZUME, R: Analysis of viscoelastic behavior of fiber composite materials with time dependence of the interface, 1A482
HASHMI, MSJ: Plastics and their machining: A review, 6A574
- End-milling machinability of Inconel 718, 7A738
- Computer-aided analysis of a surface-roughness model for end milling, 7A736
- Effect of post-weld heat-treatment on mechanical-properties and residual-stresses mapping in welded structural steel, 7A1028
- International Conference on Advances in Materials and Processing Technologies held at Dublin City University, Dublin, Ireland in August 1993, 12A671
HASIEWICZ, Z: Two-stage identification of interconnected steady-state systems with cascade structure: A parametric approach - Part I: Background, 10A424
HASIMOTO, H: Addendum to sphere theorem on the Stokes equation for 3D viscous flow, 2T875
HASKARD, MR: Field-emitter cathode for acceleration sensors, 6T349
HASKELL, TG: Preliminary results from fatigue tests on in situ sea ice beams, 11A1442
HASOFER, AM: Detrimental or serendipitous effect of human error on reliability of structures, 8A733
HASS, L: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5, 3N36
HASSAN, A: Second comparison of two higher order perturbation schemes, 1A103
- Local stability analysis of the approximate harmonic balance solutions, 12A102
HASSAN, AA: Consistent approach for modeling the aerodynamics of self-generated rotor blade-vortex interactions, 10A1218
HASSAN, AE: Application of artificial neural networks to skidder traction performance, 8A772
HASSAN, HA: Parallel Monte Carlo simulation of 3D flow over a flat plate, 1A1017
- Blunt body rarefied wakes for Earth entry, 1A1015
- Assumed and evolution probability density functions in supersonic turbulent combustion calculations, 4A1251
- Unified turbulence closure model for axisymmetric and planar free shear flows, 4A1075
- Assessment of schemes for coupling Monte Carlo and Navier-Stokes solution methods, 10A1115
HASSAN, M: Ultrasonic measurements and static load tests in bridge evaluation, 6A695
HASSAN, MF: Linear state feedback regulator for rigid link manipulators, 11A392
HASSAN, O: Unstructured tetrahedral mesh generation for 3D viscous flows, 7A1073
HASSAN, T: Performance of kinematic hardening rules in predicting a class of biaxial ratcheting histories, 8A428
HASSAN, YA: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14, 3N45
- New tracking algorithm for particle image velocimetry, 3A1009
HASSANI, B: Direct method to derive the boundary conditions of the homogenization equation for symmetric cells, 9A54
HASSANIEN, IA: Unsteady natural convection from a heated vertical plate in micropolar fluid, 1A1185
- Mixed convection in an axisymmetric stagnation flow of micropolar fluid on a vertical cylinder, 8A1095
HASSANIZADEH, SM: Transient non-Fickian dispersion theory, 10A1411
HASSELBLATT, B: Introduction to the Modern Theory of Dynamical Systems, 2R7
HASSELMAN, DPH: Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, 2A1122
HASSELMANN, H: Phase singularities in scanning acoustical microscopy, 5A272
HASSENFORDER, M: Evaluating systems of equations: Towards a formal approach, 7T75
HASSIB JABER, M: Steam condensation on horizontal integral-fin tubes of low thermal conductivity, 8A1139
HASSING, NH: Optimization of flow geometries applying quasianalytical sensitivity analysis, 9A1156
HASSIOTIS, S: Identification of stiffness reductions using natural frequencies, 2A699
HASSMEN, P: Sources and effects of low-frequency noise, 10A370
HASSON, DA: Free vibration analysis of cantilever cylindrical tanks, 8A123
HAST, SL: Compact finite burn targeting and reconstruction algorithm, 12T382
HASTAOGLU, MA: Three-Dimensional transient heat transfer from a buried pipe: Solidification of a stationary fluid, 1A1262
HASTINGS, DE: Data analysis and model comparison for solar array module plasma interactions experiment, 12A862
HASTINGS, MC: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7
HASTINGS, SR: Myths in passive solar design, 5A1353
HASUDA, Y: Edge-chipping generation of ferrite in slot grinding (Japanese), 11A604
HATA, H: Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, 6A844
HATA, K: Application of acoustic emission technique for estimation of initial stress (Japanese), 1A851
HATA, T: Thermal stress-focusing effect in a solid sphere subjected to instantaneous heating, 1A1290
HATAMIAN, ST: Modeling fragmentation in 2D, 8A1348
HATANO, S: Control of a flexible beam using back electromotive force of motor, 6A325
HATEM, N: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098
HATHOUT, JP: Modeling and control of HSFDs for active control of rotor-bearing systems, 5A1285
HATJIGEORGIOU, J: Deep water mooring dynamics, 3A130
HATORI, T: Equations of motion of vortex-current filaments, 9A1203
HATTA, N: Finite element analysis of edge lamination during hot rolling process of aluminum alloy, 1A716
- Deformation process of a water droplet impinging on a solid surface, 5A918
- Deformation and rebounding processes of a water droplet impinging on a flat surface above Leidenfrost temperature, 9A1127
HATTIS, PD: Physical programming design optimization for high speed civil transport, 9T963
HATTORI, A: Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), 7A947
HATTORI, H: Existence of shock profiles for viscoelastic materials with memory, 1A198
HATTORI, K: Shock tube and modeling study of ketene oxidation, 12A1309
HATTORI, T: Participation of inert species in air in piston-compression ignition, 11T1304
HATTORI, Y: Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, 3A664
HATZIDIMITRIOU, PM: S-wave attenuation in the crust in northern Greece, 3A1315
HAUCH, RM: Reduction of vertical tail buffet response using active control, 11A1030
HAUFFE, W: Subsurface deformation of steel by solid particle impact investigated by ion beam slope cutting and scanning electron microscopy, 3A663
HAUG, EJ: Working capability analysis of Stewart platforms, 12A449
- Numerical algorithms for mapping boundaries of manipulator workspaces, 12A445
HAUGH, L: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458
HAUGHLAND, RP: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
HAUGSTAD, G: Friction force microscopy as a probe of molecular relaxation on polymer surfaces, 4A847
HAUPT, A: High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441
HAUPT, GT: Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, 11A267
HAUPT, P: Stress tensors associated with deformation tensors via duality, 10A3
HAUPTMANN, EG: Numerical simulation of the transient moisture transfer through porous insulation, 6A1191
HAVELOCK, DI: Spatial coherence of a sound field in a refractive shadow: Comparison of simulation and experiment, 3A254
- Experiments on surface waves over a model impedance plane using acoustical pulses, 9A256
- Effect of turbulent intermittency on scattering into an acoustic shadow zone, 12A284
HAVERKAMP, R: Two-dimensional interaction of a wetting front with an impervious layer: Analytical and numerical solutions, 4A1301
- Note on the soil-water conductivity of a fractal soil, 10T1410
HAVILAND, JS: Methods for examining anisotropies in early combustion - Part II: Theoretical developments, 5A1255
- Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, 5A1254

HAVLAK, KJ: Numerical analysis of random particle methods applied to Vlasov-Poisson-Fokker-Planck kinetic equations, 7A1148
HAVRANKOVA, J: Non-local energetic strength criterion applied to steel elements in combined tension and bending, 11A500
HAVSTAD, MA: Thermal radiative properties of liquid metal alloys from measurement data of Hall coefficients and DC resistivities, 12A1252
HAWBOLDT, RJ: Interactions between shock wave and hypersonic laminar boundary layer near convex corner, 5A932
HAWK, CW: Material-property effects on a thin-film solar concentrator, 1A1348
HAWK, JA: Effect of carbic orientation on abrasion of high Cr white cast iron, 4A840
HAWKES, TD: Modeling the creep of a pipe weld using Cosserat theory, 4A688
HAWKINS, GL: Fatigue failure mechanisms in fiber-reinforced plastic laminated tee joints, 1A756
HAWKINS, JA: Predictions of the acoustic scattering response of free-methane bubbles in muddy sediments, 6A245
HAWKLEY, CJ: Approach for the synthesis of oil hydraulic transmission line dynamics utilizing in situ measurements, 12A420
HAWLADER, MNA: Estimation of collector performance parameters from daily system tests, 7A1392
HAWLEY, MS: Providing rehabilitation integrated systems using existing rehabilitation technology, 10T1491
HAWMAN, RB: Slant stacks of refraction data from Maine: Effects of lateral variations in velocity structure, 6A1232
HAWONG, JAI-SUG: Dynamic stress intensity factors K_I, K_{II} and dynamic crack propagation characteristics of orthotropic material, 5A662
HAWONG, JS: Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, 6A453
HAWTHORNE, WR: Design study of radial inflow turbines with splitter blades in 3D flow, 11A1058
HAWWA, MA: Vibration confinement in trusses, 8A134
HAWWARI, A: Response of long-span bridges to spatially varying ground motion, 10A1431
HAXTON, RS: Further assessment of numerical procedures for the study of fluid-structure interaction, 2A200
HAY, JG: Three-dimensional videography of swimming with panning periscopes, 8A1452
HAY, JL: Comparison of trichromic systems for use in the calibration of polymer-dispersed thermochromic liquid crystals, 6T869
HAY, RS: Use of solid-state reactions with volume loss to engineer stress and porosity into the fiber-matrix interface of a ceramic composite, 1A550
HAYAKAWA, K: Constitutive and damage evolution equations for elastic-plastic-damaging materials based on thermodynamics theory (Japanese), 9A3
HAYAKAWA, S: Influence of plasma extinction on machining stability in EDM process (Japanese), 12A688
HAYAMA, S: Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
HAYAMI, H: Fluid Machinery - 1995 ASME/JSME Fluids Eng Conf, 2N37
HAYASHI, I: Measurement of in-plane vibration by using an improved laser speckle interferometer with the double-aperture method, 3A743
- Vibration analysis of elastic manipulators with the adjacent link joint method, 9A457
HAYASHI, K: Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, 1T862
- Residual strain and local strain distributions in the rabbit atherosclerotic aorta, 1A1451
- Asciamic evaluation of geogrid-reinforced embankments with steep slope using centrifuge modeling, 4A620
- Stress and strain distribution in hypertensive and normotensive rat aorta considering residual strain, 9A1444
- Biomechanical studies of the remodeling of knee joint tendons and ligaments, 10A1460
- Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, 11A1453
HAYASHI, M: Buckling analysis of thin-walled structures by finite node-strip method (Japanese), 5A539
- Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), 7A897
- Residual strength characteristics of soft rocks with a discontinuous plane (Japanese), 7A715
- Development of manufacturing reinforced concrete segment by centrifugal compaction (Japanese), 10A892
- Experimental studies and numerical analyses on the properties of a new type segment for gas pipeline shield tunnel (Japanese), 10A919
HAYASHI, N: Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), 4T824
- Proposal of fatigue life evaluation method for steel structural details under variable amplitude stresses (Japanese), 11A643
HAYASHI, R: Linear robust control of nonlinear systems: Elevation control of hovercraft via multi-sectional control, 6A295
HAYASHI, S: Stability analysis on earth reinforcement by using the velocity field method (Japanese), 2A521
HAYASHI, T: Optimal sequencing site of hydropower stations, 1A1433
- Photoelastic stress analysis of orthotropic materials by using an isotropic plate, 2A687
HAYASHI, Y: Elucidation of concrete flow mechanism in the truck agitator by distribution of velocity vector (Japanese), 6A938
- New stage system for step-and-repeat scanning stepper (Japanese), 7T424
- Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, 7A831
- Analysis of direct current potential field around multiple random cracks, 10A865
HAYASHIC, S: Pull-out resistance of geogrids in reinforced soil, 12A664
HAYASHIKAWA, T: Study on vibration serviceability limit state of pedestrian bridges based on human vibration sensibility (Japanese), 11A143
HAYAT, T: Diffraction by an acoustically penetrable strip, 11A255
HAYCOCK, DE: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
HAYDEN, RF: Aspects of compaction grouting of liquefiable soil, 6A529
HAYDER, ME: Nonreflecting boundary conditions for jet flow computations, 4A1053
- Navier-Stokes simulations of jet flows on a network of workstations, 9A1111
HAYES, A: Application of FEs to the stress analysis of articular cartilage, 7A1405
HAYES, KC: Stability of walking frames, 8A1451
HAYES, LJ: Advances in Heat and Mass Transfer in Biotechnology, HTD-Vol 322-BED-Vol 32 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N36
HAYES, M: Further properties of finite-amplitude plane waves in deformed Mooney-Rivlin materials, 1A184
- Young's modulus for anisotropic media, 5T420
HAYES, MA: Nonlinear Effects in Fluids and Solids - Math Concepts and Methods in Science and Engineering Series, Vol 45, 11N7
HAYES, RE: Dispersion in consolidated sandstone with radial flow, 1A1352
- Modeling the flow of power law fluids in a packed bed using a volume-averaged equation of motion, 11A1322
HAYES, WC: Effects of non-periodic microstructure on the elastic properties of 2D cellular solids, 2A434
- Optimization technique for the calculation of in-vitro 3D vertebral motion, 5A1394
- Dynamic models for sideways falls from standing height, 5A1369
- Hip impact velocities and body configurations for voluntary falls from standing height, 10A1469
HAYHURST, AN: Amounts of NO_x and N_2O formed in a fluidized bed combustor during the burning of coal volatiles and also of char, 10A1366
- Effect of solid CaO on the production of NO_x and N_2O in fluidized bed combusters: Studies using pyridine as a prototypical nitrogeneous fuel, 11A1291
HAYHURST, DR: Investigation of a high accuracy uni-axial creep testpiece with slit extensometer ridges, 1A479
HAYNES, LS: Intelligent control system for multiple dof vibration isolation, 7A136
HAYNES, P: Vibration of ring-stiffened circular cylinders under external water pressure, 12A177
HAYS, PB: Stellar alignment of the high resolution Doppler image, 5A242
HAYTHORNTHWAITE, RM: Plane strain in granular media, 7T1353
HAYWARD, G: Theoretical study on the influence of some constituent material properties on the behavior of 1-3 connectivity composite transducers, 3A747
- Evaluation of 1-3 connectivity composite transducers for air-coupled ultrasonic applications, 9A390
HAZANOV, S: Viscoelastic minimum principles revisited, 12T504
HAZEL, J: Reconstruction of fluid Langmuir monolayers under shear forces, 10T1232
HAZELRIGG, GA: Implications of arrow's impossibility theorem on approaches to optimal engineering design, 12A463
HAZLETT, RD: Simulation of capillary-dominated displacements in microtomographic images of reservoir rocks, 4A1309
HAZRA, SB: Dispersion of a solute in oscillating flow through a channel, 10A1350
HE , C: Estimating the distance to uncontrollability: A fast method and a slow one, 4T333
HE , GUOWEI: Convective Coupled Map for simulating spatiotemporal chaos in flows, 3A97
HE , RONG: Observations of invariant structures in the chaotic response of Lorenz and other systems, 1A98
HE , YOUSHENG: Coaxial interactions of two vortex rings or of a ring with a body, 3A892
HE , ZUOYONG: Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), 3A216
HE, BAIQING: Shifted-interative modal method of structural eigenvector derivative computation (Chinese), 4A203
HE, DA-WEI: Pseudo element method for solving matrix with elementary operation and its application, 1A905
HE, FENGBAO: Research on principle of slow-scanning controlled electrochemical honing of gears (Chinese), 7A745
HE, GUANGNA: Experimental investigation of soil seismic deformation property (Chinese), 8A1327
HE, GUANGYU: General second order fluid flow in a pipe, 6A958
HE, HONGZHOU: Periodic heat transfer in the fins with variable thermal parameters, 9A1270
HE, J: Asymptotic two-layer model for supersonic turbulent boundary layers, 1A1078
- Relocation of anti-resonances of a vibratory system by local structural changes, 4A138
- Note on the Baldwin-Lomax turbulence model, 5T970
HE, JI-FAN: Twelfth-order theory of antisymmetric bending of isotropic plates, 4A553
- Symmetric deformation analysis of symmetric sandwich plates including transverse shear and normal effects, 10A615
- Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, 12A571
HE, JIANHONG: Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), 11A776
HE, LING-HUI: Correspondence relations between the effective thermoelastic properties of composites reinforced by spherically anisotropic particles, 5A479
HE, LONGTING: Stability and nonlinear dynamics of 1D overdriven detonations in gases, 7A281
- Theoretical determination of the critical conditions for the direct initiation of detonations in hydrogen-oxygen mixtures, 9A334
HE, M: Coupled FDM-BEM solution for the conjugate heat transfer problem, 1A1212
HE, MY: Analysis of the double cleavage drilled compression specimen for interface fracture energy measurements over a range of mode mixities, 1A839
- Fracture resistance measurement method for bimaterial interfaces having large debond energy, 1A814
- Interface cracking phenomena in constrained metal layers, 12A745
HE, QIWEI: Controlled semiactive hydraulic vibration absorber for bridges, 7A912
HE, SAILING: Reconstruction of depth-dependent flow in a moving half-space using transient acoustic plane waves, 1A351
- Exact absorbing boundary condition and its application to 3D scattering from thin dispersive structures, 9A382
- Explicit time-domain solution for the reflection from a stratified acoustic half-space obtained by the boundary control method, 10A376
HE, WEN-JUN: Non-equivalence of the conventional boundary integral formulation and its elimination for plane elasticity problems, 10A527
- Degenerate scales and BE analysis of 2D potential and elasticity problems, 11A58
- Non-equivalence of the conventional boundary integral formulation and its elimination for 2D mixed potential problems, 12A56
HE, XD: Effective elastic properties of 3D carbon-carbon composites at high temperature, 12A563
HE, XIAOYI: Pulsatile flow in the human left coronary artery bifurcation: Average conditions, 9A1452
- Numerical simulation of oil-droplet cleavage by surfactant, 11A1469
HE, XIAOYU: CAD-based off-line planning for active vision, 2A307
HE, XINYU: Vortex entities of 2D turbulence in wavenumber space, 5A976
HE, XQ: Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, 4A564
HE, XUEHONG: Damage criterion of low cycle fatigue of medium carbon steel under complicated stress state (Chinese), 9A750
HE, YEQI: Spatial-temporal averaging method for modeling transport in porous media, 9A1359
HE, YIDONG: Analysis of liquid-core cylindrical acoustic waveguides embedded in solid media, 6A180
HE, YINNIAN: Nonlinear Galerkin method and two-step method for the Navier-Stokes equations, 9A1088
HE, YONGMEI: Cavity during superplastic deformation and its influence on mechanical properties of superplastically deformed materials at RT, 7T529
HE, Z-Y: Influence of a nonrigid baffle on intermodal radiation impedances of a fluid-loaded bilaminar plate, 7A288
HE, ZHENGJIA: Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), 4A393
HE, ZONGYAN: Elastic-plastic constitutive models based on the multiplication processes of deformed grains, 11A460
HEAD, L: Determination of parameters affecting solder paste tack strength as measured in the IPC tack test: A classical design of experiments approach, 12A706
HEAD, LM: Study of print release process in solder paste printing, 3A867
HEALEY, JJ: New boundary layer resonance enhanced by wave modulation: Theory and experiment, 6A980
HEALY, WM: Comparison between theoretical models and experimental data for the spreading of liquid droplets impacting a solid surface, 12T1237
HEAN, S: Study on seam performance of polymer-modified bituminous roofing membranes using T-peel test and microscopy, 9A794
HEARD, C: Experimental performance of the water-lithium chloride system in a heat transformer, 2A1142
HEARLE, JWS: Experiments on inextensional collapse of circular paper disks including the influence of holes, 7A660
HEARN, HC: Design and development of a large bipropellant blowdown propulsion system, 2A1200
HEARN, TC: Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, 8A1440
HEATH, S: Improved single-parametor tip-timing method for turbomachinery blade vibration measurements using optical laser probes, 12A182
HEATON, H: Plasma spray treatments for steel adherends, 8A855
HEATON, TH: Near-source ground motion and its effects on flexible buildings, 7A1379
HEATWOLE, CM: Reference transducer selection for active control of structure-borne road noise in automobile interiors, 9A376
HEBBAR, SK: High-angle-of-attack wind-tunnel investigation of a multimission vehicle, 1T1108
- Effect of canard oscillations on an X-31A: Like model in pitching maneuver, 2T1012
HECHMER, JL: Plane strain crack growth models for fatigue crack growth life predictions, 7A778
HECK, BS: Model reduction of Coulomb friction damped systems using singular perturbation theory, 9A979
- Reaching conditions for variable structure control with output feedback, 12A367
HECK, ML: Simulation and Shuttle Hitchhiker validation of Passive Satellite Aerostabilization, 5A244
- Parametric and classical resonance in passive satellite aerostabilization, 10A950
HECKER, M: Expert system for processing uncorrelated satellite tracks, 3T387
HECKERT, NA: Extreme wind distribution tails: A "peaks over threshold" approach, 10A1208
HECKL, MA: Railway noise: Can random sleeper spacings help?, 7A972
HECTOR JR, LG: Model of the effect of alloy content on shell strength during solidification of binary alloys, 5A1194
- Thermal stresses due to a laser pulse: Elastic solution, 9A1272
HEDBERG, CM: Influence of phase between original frequencies on the nonlinear generation of new harmonics: Examples of application from nonlinear acoustics, 12A271
HEDERSTIERNA, JF: Welding residual distortions in ring-stiffened pipes, 11A841
HEDLEY, JT: NO_x formation in large-scale oxy-fuel flames, 8A1258
HEDMAN, PO: Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology combustor, 5A1240
HEDRICK, JK: New results on closed-loop stability in the presence of control saturation, 2A256
- Robust throttle control of automotive engines: Theory and experiment, 9A436
HEDRIH, KS: Rheonomic constraints force, 1T84
HEEGAARD, J: Biomechanics of the human patella during passive knee flexion, 2A1284
HEEGAARD, JH: Geometric properties of 2D and 3D unilateral large slip contact operators, 12A493
HEEGE, A: Frictional contact element for strongly curved contact problems, 5A412
- Numerical modeling and simulation of frictional contact using a generalized Coulomb law, 9A993
HEFNI, IAZ: One-dimensional bulk waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A590
- Surface waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A591
HEFZY, MS: Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO, 1N40
HEGAZY, AS: Thermal performance of a parabolic trough collector with a longitudinal externally finned absorber, 6A1297

HEGER, A: Assessment of notches in ceramic components, 5A635
HEGGS, PJ: Thermal performance of cyclic regenerators operating under varying inlet temperature conditions, 1A1278
- Upstream migration of heat during combined convection in a horizontal parallel plate duct, 4T1161
- Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, 4A1166
- Performance indicators for steady-state heat transfer through fin assemblies, 11A1102
- Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, 11A1153
HEIDEBRECHT, AC: Site effects on the seismic response of a suspension bridge, 9A1390
HEIDELBERG, LJ: Inlet acoustic mode measurements using a continuously rotating rake, 1A362
HEIDEMANN, RA: Three-Dimensional transient heat transfer from a buried pipe: Solidification of a stationary fluid, 1A1262
HEIDEMANN, SR: Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, 5A1374
HEIDUG, WK: Hydration swelling of water-absorbing rocks: A constitutive model, 12A1345
HEIDUSCHKE, K: Computational aspects of the logarithmic strain space description, 5A421
HEIL, M: Stability of cylindrical shells conveying viscous flow, 9A320
HEILIG, W: Experimental and numerical study of the interaction between a planar shock wave and a square cavity, 11A204
HEIMER, S: Fast crack propagation in viscoplastic materials, 9A840
HEIN, H: Numerical investigation of fluidic micro-oscillators, 10T444
HEIN, K: Computerized analysis of low-NO_x coal-fired utility boilers, 8A1277
HEIN, KRG: Trajectories of burning coal particles in highly swirling reactive flows, 5A1262
HEINDEL, TJ: Enhancement of natural convection heat transfer from an array of discrete heat sources, 4A1147
- Conjugate natural convection from an array of protruding heat sources, 6A1081
- Conjugate natural convection from an array of discrete heat sources - Part 1: 2D and 3D model validation, 6A1082
- Conjugate natural convection from an array of discrete heat sources - Part 2: A numerical parametric study, 6A1083
HEINE, C: Effects of excitation on the coherent and random motion in a plane wall jet, 9A1164
HEINEMANN, D: Modifications of the Heliosat procedure for irradiance estimates from satellite images, 9A1422
HEINEMANN, U: Radiation-conduction interaction: An investigation on silica aerogels, 10A1303
HEINIG, K: Acoustics of a counter-rotating shrouded propfan: Prediction and data, 2A208
HEINRICH, DC: Flow oscillation over an airfoil near stall, 6T1013
HEINRICH, JC: Finite element analysis of the scramaccelerator with hydrogen-oxygen combustion, 8A239
- Boundary conditions for FE simulations of convective flows with artificial boundaries, 9A1304
- Petrov-Galerkin methods for the transient advective-diffusive equation with sharp gradients, 10A1355
- Numerical anomalies in simulating directional solidification of binary alloys, 11A1255
HEINZE, C: Determination of arbitary, non-shearing end-loadings from the bulk stress on the lateral surface of a rectangular prism, 4A431
HEISE, U: Fundamental solutions of Laplace's potential operator and Navier's elasticity operator defined on Riemann spaces with two parallel, straight branch lines, 5A424
HEISER, WH: Fluid phenomena in scramjet combustion systems, 6A1212
- Simulating heat addition via mass addition in variable area compressible flows, 10T1153
HEISEY, CL: Measurement of adhesion between carbon fibers and bismaleimide resins, 5A467
HEISS, A: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
HEISTER, SD: Solid rocket motor grain burnback analysis using adaptive grids, 2A1196
- Two-phase modeling of cavitated flows, 2A855
- Optimization of hybrid-rocket-booster fuel-grain design, 5A1291
- Modeling hydrodynamic nonequilibrium in cavitating flows, 9A1050
HEITMEYER, RM: Angle-time-frequency resolution of the noise field generated by wind-induced breaking waves, 6A230
HEITZER, J: Dynamic interaction of a plate and an impactor, 12A235
HEJL, RJ: Solid rocket motor grain burnback analysis using adaptive grids, 2A1196
HEKMAN, EEG: In vitro laxity-testers for knee joints of mice, 10T1465
HELENBROOK, BT: Stretch-affected flame propagation in vortical flows, 9A1314
HELFRICH, KR: Solitary waves on 2D slab conduits of buoyant fluid in a more viscous fluid, 3A201
- Thermo-viscous fingering of flow in a thin gap: A model of magma flow in dikes and fissures, 6A1240
HELIN, HE: Real-time model of 3D dynamic reattachment using neural networks, 5A935
HELLEN, TK: Applying numerical methods for determining the service life of gears, 2A677
HELLENDOORN, H: Introduction to Fuzzy Control, Second Edition, 6N13
HELLER, M: Stress analysis of plates with bonded unbalanced laminates, 5A507
HELLMANN, JR: Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA, 7N12
HELMBERGER, DV: Source characteristics of the January 17, 1994 Northridge, California, earthquake from regional broadband modeling, 6A1233
- Regional moments, energy levels, and a new discriminant, 10A1441
- Source estimation of finite faults from broadband regional networks, 12A1373
HELMERS, H: Particle image velocimetry: Use of photo-thermoplastic film for photographic recording of particle images, 6A1057
HELMICKI, AJ: Development of equations of state for compressible liquids, 6A918
HELMING, K: Numerical analysis of sweep effects in shrouded propfan rotors, 6A1039
HELMIS, C: Predicting single sided natural ventilation rates in buildings, 4A1226
HELMIS, CG: Study of the turbulent charscteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, 1A1434
HELMKE, U: Optimization and Dynamical Systems, 3R12
- Gradient algorithms for principal component analysis, 11A69
HELNWEIN, P: Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, 6A69
HEMAMI, A: Fundamental analysis of automatic excavation, 2A527
HEMANTH, J: Wear characteristics of sub-zero chilled cast iron, 10A977
HEMINGWAY, NG: Orthogonality sensitivity method for analytical dynamic model correction using modal test data, 4A136
HEMMATY, Y: Modeling the diagonal crack failure of reinforced concrete corner joints by a nonlinear FE model, 2A575
HENAGER JR, CH: Matrix creep accommodation in diffusion controlled phase transformations, 6A390
HENDERS, MG: Dynamics and stability state-space of a controlled inverted pendulum, 10A100
HENDERSHOT, DM: Walking when utilizing a sensory feedback system and an electrical muscle stimulation gait orthosis, 1A1449
HENDERSON, B: Sound-production mechanisms of the axisymmetric choked jet impinging on small plates: The production of primary tones, 6A236
HENDERSON, DK: Flexible vehicle control using quantitative feedback theory, 3A370
HENDERSON, JF: Flight validation of the computer program CBAS (cable body airborne simulator), 8A1024
HENDERSON, MB: Influence of crystal orientation on the high temperature fatigue crack growth of a Ni-based single crystal superalloy, 5A596
HENDERSON, NM: Impedance of a fibrin clot in a cylindrical tube: Relation to clot permeability and viscoelasticity, 2A1295
HENDERSON, RD: Unstructured spectral element methods for simulation of turbulent flows, 5A975
HENDRICKS, RC: Pressure and flow characteristics in a shallow hydrostatic pocket with rounded pocket-land joints, 8T818
HENDRICKS, TJ: Absorption-scattering coefficients and scattering phase functions in reticulated porous ceramics, 8A1178
HENDRIKS, CP: Accurate real area of contact measurements on polyurethane, 5T795
HENEGHAN, SP: Surface effects on deposits from jet fuels, 10A1374
HENKES, RAWM: Comparison exercise for computations of turbulent natural convection in enclosures, 1A1186
- First instability mechanism in differentially heated cavities with conducting horizontal walls, 3A1050
HENKIE, Z: Magnon drag effect on resistivity and thermoelectric power of semimetallic antiferromagnet USb, 6T1165
HENLINE, WD: Comparison of coupled radiative flow solutions with Project Fire II flight data, 3A1134
HENNEKE II, EG: Acousto-ultrasonic technique applied to filled-polymer damage assessment, 5A1241
HENNEQUET, G: Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, 2A131
- Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, 2A132
HENNESSY, M: Effects of cylinder wall surface roughness and bore distortion on blow-by in automotive engines, 2T805
HENNET, CG: Slant stacks of refraction data from Maine: Effects of lateral variations in velocity structure, 6A1232
HENNIG, EM: Influence of stretching and warm-up exercises on Achilles tendon reflex activity, 6A1379
HENNING, H-M: Collector hardware simulator: Theoretical analysis and experimental results, 1A1424
HENRIETTE, J: Effects of time scale ratio in turbulent diffusion flames modeling, 10A1377
HENRY, D: Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, 8A1054
HENRY, FS: Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
HENRY, J-P: Poroplastic behavior of porous rocks, 1A708
HENS, H: Hygrothermal performance of protected membrane roof systems - Part 2: Experimental verification, 11A1225
- Effects of air and moisture flow on the thermal performance of insulations in ventilated roofs and walls, 11A1228
HENSCHKE, GE: Analysis of close-packed brush-fiber interfaces for spacecraft thermal management, 5A738
HENSEL, A: Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, 11A1094
HENSHAW, JM: Overview of recycling issues for composite materials, 8A1407
HENTON, J: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 1: Techniques and application to seismograms recorded in the Anza seismic gap, 12A1369
HENWOOD, DJ: New pipe and horn modeling, 10A339
HEPLER, W: Numerical simulation of steady-state dump combustor operation with auxiliary fuel injection, 5A1239
HEPP, H: Reactive dimerization: A new PAH growth mechanism in flames, 7A1320
HEPPLER, GR: Stability of gyroelastic beams, 11A544
HERAKOVICH, CT: Numerical modeling of damage development and viscoplasticity in metal matrix composites, 4A503
- Response of SiC-Ti under combined loading - Part III: Microstructural evaluation, 8A658
- Interfacial debonding in laminated titanium matrix composites, 11A488
HERAS-PALOU, C: Three-dimensional human femoral strain analysis using ESPI, 3A1414
HERBERT, T: Evaluation of transition in flight tests using nonlinear parabolized stability equation analysis, 11A1028
HERDA, H: Error assessment for wind histories generated by autoregressive method, 2A772
HERDIN, GR: Advanced gas engine cogeneration technology for special applications, 5A1267
HERMAN, AL: Direct optimization using collocation based on high-order Gauss-Lobatto quadrature rules, 11T276
HERMAN, CR: Application of statistical clustering to screen printing process control, 3A383
HERMAN, GC: Elastodynamic inverse scattering method for removing scattered surface waves from field data, 3A1288
HERMANN, M: Free-field sound power levels of open-inlet and open-outlet fans and comparison with in-duct measurements, 1A298
HERMANN, R: Application of the shadow optical method to fatigue and crack closure studies, 2A683
HERMANSKI, M: Adaptive spectral compensation algorithm for avoiding flexural vibration of printing cylinders, 4A208
HERMANSON, JC: Thermal stability and heat transfer characteristics of methane and natural gas fuels, 5A1244
HERMANSSON, A-M: Small and large deformation studies of protein gels, 4A907
HERNANDEZ, A: Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, 2A131
HERNANDEZ, CA: Modeling austenite flow curves in low alloy and microalloyed steels, 5A442
HERNANDEZ, E: Stability of nonlinear polynomial ARMA models and their inverse, 10T393
HERNANDEZ, JM: Applications of dynamic measurements to structural reliability updating, 9A900
HERNANDEZ, JMM: Advances in Acoustics Technology - European Commission Aeronautics Research Series, 3N7
HERNANDEZ, R: Influence of the heating rate on supercritical Rayleigh-Benard convection, 1A1196
HERNANDEZ, S: Structural Optimization - Proc of Computer Aided Optimum Design of Structures IV, 6N28
HEROLD, KE: Buoyancy effects on the mass transfer in absorption with a nonabsorbable gas, 6A1184
HERON, AJ: Examination of the quality engineering problems experienced in automotive product transfer, 2T325
HEROUX, MA: Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, 4A39
HERR, MD: Epicardial surface dynamics in the closed-chest normal canine, 2A1302
HERRERA, I: Trefftz-Herrera domain decomposition, 5A54
HERRERO, MA: Singularity formation in the 1D supercooled Stefan problem, 11A1200
HERRMANN, FJ: True-amplitude migration taking fine layering into account, 11A1379
HERRMANN, G: Conservation laws for thermo or poroelasticity, 12A500
HERRMANN, KP: Discontinuity waves in a periodic layered medium, 2A157
- Dynamic interface crack propagation and related problems of caustics, 9A839
HERRMANN, RB: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
HERSH, L: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
HERT, J: Spatial organization of the haversian bone in man, 6A1335
HERT, S: Ties that bend: Motion planning for multiple tethered robots, 12T441
HERTZBERG, RW: Deformation and Fracture Mechanics of Engineering Materials, Fourth Edition, 5N23
HERVE, E: Elastic constants of a material containing spherical coated holes, 1A471
- Steady-state power-law creep in "inclusion matrix" composite materials, 3A451
HERWIG, H: Asymptotic study of heat transfer in the entrance region of turbulent channel and pipe flows (German), 6A1068
- Combined perturbation and finite-difference procedure applied to temperature effects and stability in a laminar boundary layer, 9A1139
HERZOG, W: Evaluation of the implantable force transducer for chronic tendon-force recordings, 6A1364
- Soleus forces and soleus force potential during unrestrained cat locomotion, 6A1329
- Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion, 8A1424
- Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion, 8A1425
- Stability of muscle fibers on the descending limb of the force-length relation: A theoretical consideration, 8A1418
- Modeling of force production in skeletal muscle undergoing stretch, 12A1455
HESHMAT, CA: Analysis of gas-lubricated, multileaf foil journal bearings with backing springs, 5A1104
HESHMAT, H: Performance of powder-lubricated journal bearings with MoS_2 powder: Experimental study of thermal phenomena, 5T793
- Analysis of gas-lubricated, multileaf foil journal bearings with backing springs, 5A1104
HESKESTAD, G: Fire plume behavior in temperature-stratified ambients, 3A1233
HESP, PA: Flow dynamics in a trough blowout, 12T1414
HESPEL, JM: Liquid sheet and film atomization: A comparative experimental study, 4A1015
HESS, DP: Dynamic analysis of threaded fasteners subjected to axial vibration, 12A204
HESS, GD: Atmospheric boundary layer - Advances in knowledge and application, 12A1420
HESS, RA: Feedback system design for stable plants with input saturation, 3A335
- Flexible vehicle control using quantitative feedback theory, 3A370
- Feedback design for unstable plants with saturating nonlinearities: Single-input, single-output, 6A300
HESS, S: Extended FENE dumbbell theory for concentration dependent shear-induced anisotropy in dilute polymer solutions, 8A858
HESSELINK, L: Systematic study of the correlation between geometrical disturbances and flow asymmetries, 9A1105
HESTERMANN, R: Flow field and performance characteristics of combustor diffusers: A basic study, 5A1279
HETHERINGTON, JG: Energy and momentum changes during ballistic perforation, 7A260
HETMANSKI, J: Beam waist-focus misalignment error estimates in laser Doppler anemometry, 2A1066
HETNARSKI, RB: Thermal stresses due to a laser pulse: Elastic solution, 9A1272
HETSRONI, G: Direct numerical simulation of a turbulent open channel flow with passive heat transfer, 2A1085
- Mechanistic model for heat transfer from a wall to a fluid, 7A1205
- Gas-liquid combustion reactor theory (ideally stirred reactor), 7A1332
HETTLICH, F: Iterative methods for the reconstruction of an inverse potential problem, 12A1365
HEUER, AH: TiNi (shape memory) films on silicon for MEMS applications, 5T355
HEUER, R: BEM analysis of grain boundary sliding in polycrystals, 4A530

HEW WAI, C CHAN: Effects of 3D pad deformations on tilting-pad journal bearings under dynamic loading, 5A82
HEWITT JR, CR: Effect of line Doppler shift on plume infrared signatures, 3A1131
HEWITT, GF: International Encyclopedia of Heat and Mass Transfer, 6N35
- Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8, 9N22
- Response of turbulent flow to abrupt changes in surface roughness and its relevance in horizontal annular flow, 9A1146
HEWITT, NJ: Martin-Hou, Peng-Robinson and Redlich-Kwong-Soave equations of state for HFC 125, 6A1061
- From pure fluids to zeotropic and azeotropic mixtures: The effects of refrigerant-oil solubility on system performance, 6A1153
- R407C as an alternative to R22 in refrigeration systems, 8A1212
- Development of engineering design data for new refrigerants - I: Pure fluids and azeotropic mixtures, 8A1296
HEYERICHS, K: Heat transfer in separated and impinging turbulent flows, 11A1137
HEYLIGER, P: Free vibration of piezoelectric laminates in cylindrical bending, 1A163
- Exact free-vibration analysis of laminated plates with embedded piezoelectric layers, 1A149
HEYLIGER, PR: Discrete layer analysis of axisymmetric vibrations of laminated piezoelectric cylinders, 11A135
HEYMAN, J: Stone Skeleton: Structural Engineering of Masonry Architecture, 2R23
HEYNDERICKX, I: Non-isothermal Poiseuille flow of a liquid crystalline material - 2: Tumbling nematic, 2A845
- Non-isothermal Poiseuille flow of a liquid crystalline material - 1: Flow-aligning nematic, 2A844
- Origin of nonlinearities in the Bagley plots of thermotropic copolyesters, 8A870
HEYWOOD, JB: From spark ignition to flame initiation, 5A1211
HEYWOOD, JG: Artificial boundaries and flux and pressure conditions for the incompressible Navier-Stokes equations, 8A906
HIATT, JP: Measurements of pore scale flows within and exiting ceramic foams, 10A1414
HIBBARD, R: Twenty first century transportation system solutions: A new type of small, relatively tall and narrow active tilting commuter vehicle, 11A337
HIBBERD, S: Internal hydraulic jumps at T-junctions, 11A864
HIBINO, M: Participation of inert species in air in piston-compression ignition, 11T1304
HICKS , YR: OH imaging in a lean burning high-pressure combustor, 8T1259
HICKS, TG: Standard Handbook of Consulting Engineering Practice, Second Edition, 11N50
HIDAKA, T: Intersural cross-correlation, lateral fraction, and low- and high-frequency sound levels as measures of acoustical quality in concert halls, 1A336
- Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336
HIDAKA, Y: Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, 7A1040
- Shock tube and modeling study of ketone oxidation, 12A1309
HIDANO, K: Initial value problem of semi-linear wave equations in three space dimensions, 5T172
HIEDA, M: Study on the application of neural network as the process of support selection for tunnel construction with NATM (Japanese), 4T822
HIEJIMA, S: Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), 5A259
HIGAKI, H: Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, 12A1490
HIGASHI, K: Effect of temperature on the mechanical properties of mechanically-alloyed materials at high strain rates, 1A495
- Characterization of carbon particulates in diffusion flames, 7T1314
HIGASHINE, A: Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), 7A878
HIGASHITANI, M: Bubble behavior in magnetic fluid under a nonuniform magnetic field, 1T1092
HIGASHIYAMA, Y: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
HIGAZY, EMM: Behavior of beam-column connections under axial column tension, 10A890
HIGDON, JJL: Spectral BE approach to 3D Stokes flow, 2A874
- Resistance functions for spherical particles, droplets and bubbles in cylindrical tubes, 2A924
- Permeability of 3D models of fibrous porous media, 8A871
HIGDON, RL: Stability analysis of operator splitting for large-scale ocean modeling, 7A1389
HIGHAM, DJ: Global error estimation with adaptive explicit Runge-Kutta methods, 6A34
HIGHAM, NJ: Accuracy and Stability of Numerical Algorithms, 5N3
HIGHSMITH, AL: Low velocity impact damage in filament-wound composite pressure bottles, 11A186
HIGO, Y: Effects of dendrite cell size and particle distribution on the near-threshold fatigue crack growth behavior of cast Al-SiCp composites, 11A625
HIGUCHI, H: Fluid dynamics of parachute inflation, 6A205
- Parachute aerodynamics: An assessment of prediction capability, 9A968
- Three-dimensional wake formations behind a family of regular polygonal plates, 11A898
HIGUCHI, M: Optimization of grinding conditions with genetic algorithms, 3T629
HIGUCHI, S: Improvements on belt machined surface flatness by using fuzzy inference based on a simulational method, 1A724
HIGUCHI, T: Three-dimensional micro fabrication by precision cutting technique (Japanese), 4T642
- Design of wire parallel mechanism, 9A1028
- Development of a high speed non-circular machining NC-lathe for cutting a piston-head of a reciprocating engine by use of a new servomechanism actuated by electromagnetic attractive force (Japanese), 9A706
HIGUERA, FJ: Heat transfer across a vertical wall separating two fluids at different temperatures, 11A1117
HIJAWI, MS: Dynamic response of the flow induced vibration of smooth and rough single cantilever circular cylinders, 4A153
HIJIKATA, K: Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, 5T1293
- Theoretical and experimental studies on the pseudo-dropwise condensation of a binary vapor mixture, 8A1143
HIKOSAKA, H: Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), 5A126
HILBERT, KB: Redesign of the celestial pointing cone control gains for the Galileo spacecraft, 1A267
HILD, F: Micro-mechanics and continuum damage mechanics, 2A675
- Matrix cracking and debonding of ceramic-matrix composites, 6A449
- Fatigue failure maps of heterogeneous materials, 7A787
- Localization due to damage in two-direction fiber-reinforced composites, 12A549
HILFER, R: Dimensional analysis of pore scale and field scale immiscible displacement, 9A1373
HILGERS, MG: Bending energy of highly-elastic membranes - II, 11A508
HILL, D: Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, 12T376
HILL, DA: Thermodynamic considerations on the electrorheology of noncolloidal suspensions, 11A858
HILL, DJ: Seram reliability under seismic conditions at the Experimental Breeder Reactor II, 9A1416
HILL, EVK: Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, 11A708
HILL, JM: Boundary effects for Couette flow of granular materials: Dynamical modeling, 5A1294
- Modeling microwave heating, 5A1175
- Axially symmetric deformations of perfectly elastic compressible materials, 7A493
- Punch problem for shear-index granular materials, 7A1350
- Transformations and equation reductions in finite elasticity - II: Plane stress and axially symmetric deformations, 11A419
- Transformations and equation reductions in finite elasticity - I: Plane strain deformations, 11A418
HILL, LR: Fast Fourier transform of spectral BEs for transient heat conduction, 4A1210
HILL, MR: Proof-test-based life prediction of high-toughness pressure vessels, 7A993
HILL, NJ: Numerical investigation of landfill hydraulics using variably saturated flow theory, 12A1031
HILL, R: Weibull statistics of fiber bundle failure using mechanical and acoustic emission testing: The influence of interfiber friction, 1A824
- Stable pattern and standing wave formation in a simple isothermal cubic autocatalytic reaction scheme, 2A1167
- Stress analysis of elastic streams in continuous forming operations, 3A637
HILL, RB: Data reduction methods for flow tagging velocity measurements, 7A1196
HILL, RD: Nonlinear control law for aerial towed target, 4A376
HILL, RJ: Pressure structure functions and spectra for locally isotropic turbulence, 1A1076
HILL, SC: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
HILLARD, B: Data analysis and model comparison for solar array module plasma interactions experiment, 12A862
HILLEN, B: Merging flows in an arterial confluence: The vertebro-basilar junction, 6A1347
- Influence of the angle of confluence on the flow in a vertebro-basilar junction model, 6T1346
- Numerical simulation of blood flow in an artery with two successive bends, 12A1475
HILLER, M: Comparative study of recursive methods, 5A74
HILLERY, M: Forces generated in guide-wires when drilling human bone, 3T1413
HILLIG, W: Modeling and the adaptive solution of reactive vapor infiltration problems, 6A589
HILLION, P: Wave theory of diffraction, 10A269
HILLMANN, K: Phase singularities in scanning acoustical microscopy, 5A272
HILLMANN, M: Tangential loading transportation between roller and flat with modified Coulomb friction: A 3D roll-contact calculation with the FEM, 5A415
HILLS, DA: Mechanics of Fretting Fatigue, 2R21
- Formulation and implementation of the eigenstrain method employing higher order elements, 4A699
- Mechanics of Hertzian cracking, 5A614
- Solution of crack problems by using distributed strain nuclei, 8A683
- Comparison of plane and axisymmetric contacts between elastically dissimilar bodies, 10T990
- Solution of cracks emanating from circular holes, 11A668
HILTON, HH: Shear center for elastic thin-walled composite beams, 8A478
- Nonlinear thermo-viscoelastic analysis of interlaminar stresses in laminated composites, 9A1289
- Inadmissibility of separation of variables solutions in linear anisotropic viscoelasticity, 11A444
HIMBEAULT, DD: Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, 1A1416
HIMENO, K: Asphalt pavement structural design for railway container yards (Japanese), 2A528
HINCH, EJ: Computer simulations of polymer chain relaxation via Brownian motion, 8A860
- Shear-induced dispersion in a dilute suspension of rough spheres, 8A929
HINDE, CJ: Experience of the application of intelligent control paradigms to real manufacturing processes, 6A367
HINDERS, MK: Particle-loaded composites for acoustic anechoic coatings, 1A334
HINDMARSH, AC: Avoiding BDF stability barriers in the MOL solution of advection-dominated problems, 2A1172
HINE, PJ: Anisotropic elasticity of oriented polyethylene materials, 5A417
HINES, PC: Theoretical model of in-plane scatter from a smooth sediment seabed, 7A344
HINGE, KC: Effect of skew angle on the axial pressure distribution between flexible rubber-covered rollers, 8A390
HINKEL, KM: Detection of heat-mass transfer regime transitions in the active layer using fractal geometric parameters, 3A578
HINO, S: Fundamental study on the thermal properties of concrete structural members under external high temperature loading (Japanese), 9A1276
HINRICHS, N: Bifurcation and stability analysis for a non-smooth friction oscillator, 10A95
HINRICHS, RN: NLT and extrapolated DLT: 3D cinematography alternatives for enlarging the volume of calibration, 1A1462
HINTON, E: FE-shape sensitivity of elastoplastic response, 6A716
HINTON, MJ: Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, 4A494
HINTZ, P: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
HINZ, K-P: Simultaneous detection of positive and negative ions from single airborne particles by real-time laser mass spetrometry, 11A1319
HIPEL, KW: Exploratory spectral analysis of hydrological time series, 2T1255
HIPPS, KW: Scanning conduction microscopic method for probing abrasion of insulating thin films, 4A848
HIRA, A: Evolutionary structural optimization for problems with stiffness constraints, 11A773
HIRA, H: Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), 10A731
HIRAI, K: Controlling chaos in a switched arrival system, 5A356
HIRAI, M: Evaluation of the effect of rock bolts based on field measurement results (Japanese), 7A716
HIRAI, T: Pull-out resistance of geogrids in reinforced soil, 12A664
HIRAI, Y: Damage modes in impact loading of glass woven fabric composites, 12A752
HIRAKO, Y: Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, 11A685
HIRAKURA, T: Evaluation of friction torque and heat quantity generated in spindel (2nd Report): Influence of design parameters upon heat quantity evaluated with an improved measuring system (Japanese), 5A812
HIRANO, H: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737
HIRANO, M: Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), 3A632
- Experimental study on the growth of gravity currents (Japanese), 6A1242
- Analytical study on excitation of nuclear-coupled thermal hydraulic instability due to seismically induced resonance in BWR, 11A1425
HIRAO, K: Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), 5A1327
HIRAO, M: Ultrasonic diffraction from a transducer with arbitrary geometry and strength distribution, 1A332
- Articulated robot application in end milling of sculptured surface, 12A462
HIRAOKA, H: Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
HIRASAWA, I: Basic test on the dynamic strength of R/C square columns under biaxial bending, 11A745
HIRASHIMA, K: Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), 7A815
- Study on earth pressure at equilibrium and horizontal subgrade reaction coefficient of an earth wall embedment in braced excavation work on clayey soil (Japanese), 10A678
HIRASHIMA, K-I: Analysis of viscoelastic behavior of fiber composite materials with time dependence of the interface, 1A482
- Back analysis of viscoelastic rock masses with circular or elliptical tunnel (Japanese), 3A594
- Stress distributions around circular inclusion in infinite plane for nonlocal elasticity (matrix and circular inclusion have the same nonlocal coefficients), 10A693
HIRATA, A: Diamond synthesis by magnetic field assisted arc discharge plasma jet CVD (Japanese), 11A617
- Diamond synthesis on a substrate rotated at high speed (Japanese), 12A685
HIRATA, D: Behavior of high ductility aseismic joint spliced piles subjected to liquefaction-induced large ground displacements (Japanese), 5T554
HIRATA, K: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
HIRATA, Y: Simultaneous measurements of flow rates and particle concentrations in heterogeneous solid-water two-phase flows by means of one venturi, 1T1033
- Output variation of photovoltaic modules with environmental factors - I: The effect of spectral solar radiation on photovoltaic module output, 5A1355
HIRATSUKA, K: Environmental effects on the formation process of adhesive wear particles, 4T842
HIRAYAMA, K: Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), 3A1387
HIRAYAMA, O: Numerical analysis of nonlinear stability of a 2D uniform fluidized bed - Part 1: Numerical check of linear stability, 8A1316
HIROGAKI, T: Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
HIROKAWA, H: Evaluation of surface by an ultra-microhardness tester to measure depth of concavity - 2nd Report: Verification of R-correction at indenter tip and shallowing correction of concavity, using FEM simulation (Japanese), 11T703
HIROKAWA, K: Internal resonances of a cracked rotor: Major critical speed and critical speeds in precritical range, 12A205
HIROOKA, H: Polygonal deformation of roll-covering rubber, 9A278
HIROSAKI, K: Study on ultra fine NC polishing with constant cutting depth: Surface polishing characteristics and influence of viscosity of polishing compound (Japanese), 2A548
- Study on grinding-like polishing using magnetic fluid: Surface polishing characteristics of Si-wafer (Japanese), 5A578
HIROSE, M: Effect of multisensory integration for scientific data sensualization, 12A1483
HIROSE, S: Vibration analysis of rubber vibration isolators of vehicle using the restoring force model of power function type: Analysis of nonlinear vibration using frequency characteristics determined by the hysteresis loop, 6A164
- Dynamic approach to real-time obstacle avoidance control of redundant manipulators, 12A453
HIROSE, T: Behavior of a tapered hub flange with a bolted flat cover in transient temperature field, 7A1025
HIROSE, Y: Single incidence X-ray stress measurement for all plane stress components using imaging plate of 2D X-ray detector (Japanese), 3A744

- Fractal characteristics of stress corrosion cracking in SNCM 439 steel having different prior-austenite grain sizes, 6A622
- Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), 7A815

HIROSHIMA, T: Three-dimensional FE analysis and strength evaluation of link chains in chain hoists subjected to impact loads, 6A468

HIROSUE, T: General tolerancing in design object modeling (Japanese), 12A836

HIROTA, K: Research on simplification of opposed dies shearing process utilizing differential pressure, 12A683

HIROTA, T: Mechanical properties of the composite beam using the permanent form reinforced with CFRP and its application to the pier (Japanese), 4T517

HIRSCH, J: Role of texture development in the forming limits of sheet metals, 12A675

HIRSCHBERG, A: Aeroacoustics of musical instruments, 11A244

HIRSCHBERG, P: Successive homoclinic tangencies to a limit cycle, 6A110

HIRSCHEL, EH: Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany, 6N3

HIRST, SJ: Design considerations for a blind spot detector, 8A325

HIRT, DE: Simulating the microbond technique with macrodroplets, 3A507

HIRTH, JP: Mixed mode I-II fracture toughness of 2034 aluminum alloys, 5A632
- Matrix creep accommodation in diffusion controlled phase transformations, 6A390
- Effect of aging on mixed-mode I-III fracture toughness of 2034 aluminum alloys, 8A671
- Effects of notch root radius on crack initiation and growth toughnesses of a cross-ply Ti-6Al-4V-SiC composite, 9A529

HIRUKAWA, A: Warping stress equation at the transverse joint edge of concrete pavement slab based on FEM analysis (Japanese), 9A926

HISADA, M: Study on the characterization of silica fume and the evaluation of properties of concrete containing silica fume (Japanese), 2T414

HISADA, Y: Efficient method for computing Green's functions for a layered half-space with sources and receivers at close depths - Part 2, 2A1230

HISAKADO, T: Surface characterization in friction and wear (Japanese), 5T765

HISAKI, T: Six-axis control finishing for character line (Japanese), 9A734

HISATAKE, M: Modeling of the ground by CEM and determination of its input parameters (Japanese), 7A689

HISHIDA, K: Buoyancy effects on the wake behind a heated obstacle immersed in a turbulent boundary layer, 5A1136
- Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, 8A965
- Effect of dispersed phase on modification of turbulent flow in a wall jet, 12A1132

HISHIDA, M: Studies on molecular diffusion and natural convection in a multicomponent gas system, 4A1165
- Local heat transfer coefficient distribution on a ribbed surface, 11A1114

HISHINUMA, A: Weldability of neutron-irradiated type 316 stainless steel, 11A840

HITCHINGS, D: Finite element model for delamination propagation in composites, 12A754

HITES, MH: Effects of Kevlar fibers on ammonium perchlorate propellant combustion, 11A1292

HITOMI, N: Initial temperature evaluation for flash temperature index of gear tooth, 5T821

HIVER, P: New bifunctionalized additives for cold rolling emulsions, 10A1230

HIWA, C: Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), 12A543

HIXON, R: Evaluation of boundary conditions for computational aeroacoustics, 4A327

HIYODO, M: Engineering properties of carbonate sands and skin friction of pile in sands (Japanese), 4A598

HJELMSTAD, KD: Uniqueness of modal parameter estimation, 10A403

HJERTAGER, BH: Computational fluid dynamics simulation of bioreactors, 4A382

HJORTDAL, JO: Regional elastic performance of the human cornea, 12A1468

HLADKY-HENNION, AC: Analysis of the propagation of plane acoustic waves in passive periodic materials using the FEM, 3A291

HLAVACEK, M: Role of synovial fluid filtration by cartilage in lubrication of synovial joints - IV: Squeeze-film lubrication - The central film thickness for normal and inflammatory synovial fluids for axial symmetry under high loading conditions, 1A1455
- Role of synovial fluid filtration by cartilage in lubrication of synovial joints - III: Squeeze-film lubrication - Axial symmetry under low loading conditions, 1A1454

HLIBCZUK, V: Determination of collagen-proteoglycan interactions *in vitro*, 10A1475

HLINA, J: Investigations of plasma jet oscillations using FFT and resulting phase angle relations, 11A1011

HO PARK, MOON: Ultrasonic inspection of long steel pipes using Lamb waves, 8A700

HO, BONG: Poynting theorem of acoustic wave propagating in an inhomogeneous moving medium, 1A202

HO, CHIH-MING: Parametric effects on lift force of an airfoil in unsteady freestream, 10T1193

HO, CHIN C: Investigation of transient creep by means of endochronic viscoplasticity and experiment, 5A430

HO, CHUN-HSINE: High order panel method based on source distribution and Gaussian quadrature, 8A897

HO, CJ: Material-air composite cell, 8A1108
- Thermal protection characteristics of a vertical rectangular cell filled with PCM-air layer, 8A1109

HO, EK: Higher-order change of the Hamiltonian between saddle approaches by phase plane matching, 11A89

HO, ICK: Vortex pairing as a model for jet noise generation, 9A346

HO, JIN-MENG: Structural and acoustic response of mass-spring loaded cylindrical shells: Spectral formulation and ray synthesis, 7A316

HO, KH-H: Model of blast overpressure injury to the lung, 6A1339

HO, MING-TZU: Partially decentralized adaptive control of interconnected systems with improved performance, 12T341

HO, S: Thermal residual stresses in metal matrix composites: A review, 2A1158

HO, SY: High strain-rate impact studies of predamaged rocket propellants - I: Characterization of damage using a cumulative damage failure criterion, 9A807

HO, WU-CHI: Modeling of jet-generated recirculating flows in a miniature combustor, 12A1312

HO, Y-H: Computation of unsteady viscous flow through turbomachinery blade row due to upstream rotor wakes, 5A1053
- Computational modeling of 3D endwall flow through a turbine rotor cascade with strong secondary flows, 11A1071

HO, YEONG KHING: Robust control of a manipulator performing constrained motion with uncertainties in the constraint functions, 2A346

HOA, SUONG VAN: Bi-axial buckling behavior of composite rectangular plates, 1A652

HOA, SV: Model laws for curing of thermosetting composites, 2A1124
- Bonding steel reinforced concrete with composites, 2T748
- Analytical models for low cost manufacturing of composite components by filament winding - Part II: Inverse kinematics, 2A553
- Determination of manufacturing conditions for hot-gas-aided thermoplastic tape winding, 8A558

HOANG, NT: Temporal evolution of a pair of streamwise vortices, 2A871

HOBAEK, H: Experimental investigations of shock wave propagation in the postfocal region of a focused sound field, 9A392

HOBBS, AK: Dynamical patterns in directional solidification, 11A610

HOBBS, RE: Changes in wire curvature as a wire rope is bent over a sheave, 3A523

HOBBS, RW: Broadband receiver response from dual-streamer data and applications in deep reflection seismology, 6A1246

HOBEROCK, LL: Modified ARTMAP network, with applications to scheduling of a robot-vision-tracking system, 9A461

HOBSON, GV: Navier-Stokes analysis of a controlled-diffusion compressor cascade at increasing inlet flow angles, 6A1029
- Airfoil design utilizing parallel processors, 11T1015

HOBSON, JM: New finite-difference diffusion scheme, 9A89

HOCHBAUM, AC: Influence of water depth on ship stern flows, 5A988

HOCHENG, H: Critical matrix yielding stress and interfacial fracture in forming of metal matrix composite wires, 3A494

HOCHGREB, S: Analytical scaling model for hydrocarbon emissions from fuel absorption in oil layers in spark ignition engines, 7A1312

HOCHMUTH, RM: Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO, 1N40

HOCKING, GC: Supercritical withdrawal from a two-layer fluid through a line sink, 2A854
- Note on withdrawal through a point sink in fluid of finite depth, 11A892

HODGE, BK: Application of uncertainty analysis to cross-flow heat exchanger performance predictions, 7A1262
- Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, 12A1271

HODGE, JS: Flow quality of hypersonic wind-tunnel nozzles designed using computational fluid dynamics, 1A1153

HODGES, DH: FEM for the solution of state-constrained optimal control problems, 3A23
- Control variables for FE solution of missile trajectory optimization, 3T345
- Refined theory of composite beams: The role of short-wavelength extrapolation, 8A480
- Space-time mixed FEs for rods, 11T16

HODGES, JT: Role of combustion on droplet transport in pressure-atomized spray flames, 11A1302

HODGKIESS, T: Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, 11A712

HODGSON, RJW: Bayesian inference and Gibbs sampling in spectral analysis and parameter estimation - II, 9A123

HODGSON, SP: Passivity-based analysis of the minimal control synthesis algorithm, 8T303

HODSON, HP: Laminar flow rotor for a radial inflow turbine, 4A1116

HOECKER, F: Effects of fiber-matrix adhesion on off-axis mechanical response in carbon-fiber-epoxy resin composites, 2A418
- Effects of processing conditions and interphase of modification on the fiber-matrix load transfer in single fiber polypropylene composites, 3A495

HOEKS, APG: Effective algorithm for measuring diastolic artery diameters, 1A1460
- Non-invasive estimation of wall shear rate in humans by means of ultrasound, 1A1463

HOELLEN, I: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $T_{GF\beta}$-release in response to cyclic strain, 5A1373

HOELTZEL, DA: Polygon-to-object boundary clipping in object space for hidden surface removal in CAD, 5A846

HOEPRICH, MR: Rolling element bearing contact geometry analysis, 2A1053

HOFELDT, DL: Soot mass concentration measurements in diesel engine exhaust using laser-induced incandescence, 12A1330

HOFF, D: Convergence to global solutions for multidimensional flows of compressible, viscous fluids with polytropic equations of state and discontinuous initial data, 4A929

HOFFMANN, E: Acoustic trachea of Tettigoniids as an exponential horn: Theoretical calculations and bioacoustical measurements, 3A1406

HOFFMANN, K-H: Parallel solution of variational inequality problems with nonlinear source terms, 6A54

HOFFMANN, KA: Navier-Stokes computations of heat transfer for high-speed flows, 11A921

HOFFMANN, L: Cyclic fatigue crack growth and fracture in knitted randomly oriented short-fiber composite, 4A668
- Fracture of knitted randomly-oriented short-fiber composite, 9A817

HOFFMANN, TL: Visualization of acoustic particle interaction and agglomeration: Theory and experiments, 9A354

HOFFMEYER, P: Empirical stochastic silo load model - II: Data analysis, 1A931
- Integration of non-Gaussian fields, 9A116

HOFFREN, J: Conservative multiblock Navier-Stokes solver for arbitrarily deforming geometries, 5A905

HOFSTETTER, G: Computational plasticity of reinforced and prestressed concrete structures, 7A930
- Finite element algorithm for contact problems with friction, 8A33

HOGAN, PA: Automated fault tree analysis for hydraulic systems, 12A421

HOGAN, RE: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Application of moving grid control volume FEM to ablation problems, 10A1353

HOGAN, SJ: Piecewise linear suspension bridge model: Nonlinear dynamics and orbit continuation, 10A212

HOGER, A: Use of a virtual configuration in formulating constitutive equations for residually stressed elastic materials, 7A514
- Elasticity tensor of a transversely isotropic hyperelastic material with residual stress, 11A406

HOGLUND, E: Analysis of a grease-lubricated roller bearing under arctic conditions, 1T1147
- Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, 2T1058

HOGSTROM, U: Spectra, variances and length scales in a marine stable boundary layer dominated by a low level jet, 6A1294

HOHE, J: Fast crack propagation in viscoplastic materials, 9A840

HOHLOV, YE: Classical solvability for the Hele-Shaw moving boundary problems with kinetic undercooling regularization, 4A936

HOHNE, GWH: Modulated temperature DSC measurements relating to the cold crystallization process of poly(ethylene terephtalate), 11A1092

HOJJATI, M: Model laws for curing of thermosetting composites, 2A1124

HOJO, H: Stability criterion for Kelvin-Helmholtz mode in a cylindrical plasma, 4A1099
- Relationship between density and magnetic field fluctuations in the MHD regime, 4T1096

HOKE, K: Method for the evaluation of lubrication using injection upsetting, 3A605

HOLDAWAY, GP: Constraining acoustic backscatter estimates of suspended sediment concentration profiles using the bed echo, 3A256

HOLDEMAN, JD: Mixing analysis of axially opposed rows of jets injected into confined crossflow, 2A966
- Crossflow mixing of noncircular jets, 8A969

HOLDEN, JP: Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443

HOLDEN, TM: Measurement of crack tip strains using neutron diffraction, 4A763

HOLDER, H: Thermal fatigue failure mechanism of 58Bi-42Sn solder joints, 12A1282

HOLDO, AE: Effects due to initial perturbations on the modeling of vortex shedding from a bluff body in a laminar flow, 12A1034

HOLDRIDGE, DJ: Design and test of a polar nephelometer, 2A1206

HOLE, B: Failures of welded titanium aircraft ducts, 6A597

HOLEMAN, WD: Desiccant aging and its effects on desiccant cooling system performance, 8A1208

HOLESCHOVSKY, UB: Transient spherical source method to determine thermal conductivity of liquids and gels, 7A1253

HOLIAN, BL: Atomistic computer simulations of shock waves, 3T207

HOLL, H: Spherical elastic-plastic waves, 1A197

HOLL, MW: Performance of graphite-epoxy composite with embedded optical fibers under compression, 11T474

HOLLAND, FA: Experimental performance of the water-lithium chloride system in a heat transformer, 2A1142

HOLLAND, N: Finite twist mapping and its application to planar serial manipulators with revolute joints, 2A64

HOLLAND, PG: Prediction of turbulent swirling flows in axisymmetric annuli, 2A988

HOLLAND, RM: Effects of periodic wake structures on turbulent boundary layers, 11A992

HOLLANDS, KGT: Directional response error in integrating-sphere transmittance measurements at solar wavelengths, 1A1426
- Empirical model for natural convection heat exchangers in SDHW systems, 1A1421
- Reordering the absorption coefficient within the wide band for predicting gaseous radiant exchange, 11A1209

HOLLAWAY, L: Experimental results and FE modeling of an embedded polarimetric sensor, 2A425
- Buckling of advanced composite prestressed units under inplane loading, 12A627

HOLLERBACH, R: Oscillatory internal shear layers in rotating and precessing flows, 2A948
- Linear magnetoconvection in a rotating spherical shell, incorporating a finitely conducting inner core, 7T1140
- Energetics of magnetic instabilities, 11T1007

HOLLINGSWORTH, DK: Comparison of trichromic systems for use in the calibration of polymer-dispersed thermochromic liquid crystals, 6T869
- Liquid crystal images of the transition from jet impingement convection to nucleate boiling - Part I: Monotonic distribution of the convection coefficient, 8T1153

HOLLIS, SL: Existence of periodic solutions to reaction-diffusion systems with periodic data, 1A1306

HOLLISTER, SJ: Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, 12A782

HOLLMANN, K: Failure analysis of bolted composite joints exhibiting in-plane failure modes, 8A648

HOLLOWAY, G: Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, 8A1356

HOLM, S: In vivo measurement of spinal column viscoelasticity: An animal model, 2T1308
- Prediction of fatigue life based on level crossings and a state variable, 3A656

HOLMAN, RA: Nonlinear shear instabilities of alongshore currents on plane beaches, 9A1171

HOLMEDAL, LE: Start-up flow in a porous medium channel, 5A1301

HOLMES, AD: Analysis of load-relaxation in compressed segments of lumbar spine, 7A1404
- Load carrying capacities of circular rings with arc-shaped supports, 8A482

HOLMES, JD: Along-wind response of lattice towers - III: Effective load distributions, 11A783
- Along-wind response of lattice towers - II: Aerodynamic damping and deflections, 11A782

HOLMES, P: Local models of spatio-temporally complex fields, 8A988

HOLMES, R: Vibration of an aero-engine rotor incorporating two squeeze-film dampers, 8A153

HOLMES, RL: Numerical investigation of Richtmyer-Meshkov instability using front tracking, 4A1063

HOLMSTROM, I: Orthogonal expansion functions for meridional profiles, 8T1367

HOLNICKI-SZULC, J: Structural Analysis, Design and Control by the Virtual Distortion Method, 10R19
- Optimal sensor location in active control of flexible structures, 9T897

HOLOWATY, J: Moment redistribution in continuous RC bridges which spans are cast in segments (Polish), 10A916
HOLSTE, F: Free-field sound power levels of open-inlet and open-outlet fans and comparison with in-duct measurements, 1A298
- Coherence of the sound field in a circular duct with uniform mean flow, 7A317
HOLT, AE: Feasibility of under-lagging corrosion detection in steel pipe using the magnetostrictive sensor technique, 2A701
- Using aural (audible) information generated directly from conventional NDE technology signals to aid the inspector in defect detection and discrimination, 7A893
HOLTZ, N: Predicting 800 to 500 degrees C weld cooling times by using backpropagation neural networks, 10A450
HOLTZ, RD: Determining relative density of sands from CPT using fuzzy sets, 6A537
- Influence of strain rate, specimen length and confinement on measured geotextile properties, 12A661
HOLUB, K: Monitoring and analysis of seismicity in the Ostrava-Karvina coal mining district, 3A1306
HOLZAPFEL, GA: Entropy elasticity of isotropic rubber-like solids at finite strains, 12A1272
- Large strain analysis of soft biological membranes: Formulation and FE analysis, 12A1467
HOLZER, SM: p-version of the FEM in incremental elasto-plastic analysis, 11A463
HOLZMANN, M: Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, 10A1334
- Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, 10A1335
HOM, CL: Numerical analysis of relaxor ferroelectric multilayered actuators and 2-2 composite arrays, 7A595
- Finite element method for electrostrictive ceramic devices, 9A37
HOMEIER, HHH: Determinantal representations for the F transformation, 1T46
- Analytical and numerical studies of the convergence behavior of the J transformation, 12A71
HOMENTCOVSCHI, D: Cooling of a 2D space with one or more streams making one or more passes, 8A1220
HOMMA, K: Estimation of acoustic omission source waveform of fracture using a neural network, 8A695
HOMSY, GM: Linear and nonlinear dynamics of a differentially-heated slot under gravity modulation, 11A90
HOMULKA, TA: Mathematical solution of a special mixed-boundary-value problem of anisotropic elasticity, 3A440
HON, KKB: Feature-based design of progressive press tools, 5A564
HONDA, H: Effect of a circumferential rib on film condensation on a horizontal 2D fin tube, 2A1112
HONDA, K: Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, 7A788
HONDA, M: Application of multivariate autoregressive model to groundwater behavior (Japanese), 7A1361
- Relationship between the mechanical behavior and the state of porewater in unsaturated soil (Japanese), 10A648
HONDA, S: Focused ion beam machining of diamond chips and probes, 9T729
HONDA, T: Ultrasonic diffraction from a transducer with arbitrary geometry and strength distribution, 1A332
HONDA, Y: Torsional vibration damping of diesel engine with rubber damper pulley, 6A170
HONE, CHAO-CHI: Experimental study of base isolation by free rolling rods, 5A167
HONERKAMP, J: New ill-posed problems in rheology, 10A1039
HONG , YE: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
HONG , YOUSHI: Experimental and theoretical study on numerical density evolution of short fatigue cracks, 3A650
HONG, C: Analysis of free vibrations of high-rise structures, 2A130
HONG, CHANG-SUN: Axisymmetric analysis of transient thermoelastic behaviors in composite brake disks, 6A1161
HONG, CHIN-MING: Design of static reactive power compensator using fuzzy sliding mode control, 8A338
HONG, CS: New weight function approach using indirect boundary integral method, 4A709
- Progressive failure analysis for filament wound pressure vessel, 5A760
- Transient thermoelastic analysis of composite brake disks, 5A1188
- New weight function approach using indirect boundary integral method, 9A801
- Bimodal bound of system reliability for random composite structures, 12A838
HONG, CW: Dynamic simulation of road vehicle performance under transient accelerating conditions, 7A84
HONG, GM: Buckling of tapered circular plates: Allowances for effects of shear and radial deformation, 11A548
HONG, GS: Using neural network for tool condition monitoring based on wavelet decomposition, 8A799
HONG, JEN SHIN: Phase transformation in materials with nonuniform phase transition temperatures, 3T1120
HONG, JUNHEE: On-line process control based on geometrical parameters from measured data in machining process (Japanese), 7A482
HONG, KL: Analysis of free vibration of structural-acoustic coupled systems - Part I: Development and verification of the procedure, 6A228
- Analysis of free vibration of structural-acoustic coupled systems - Part II: 2D and 3D examples, 6A229
- New analysis method for general acoustic-structural coupled systems, 10A338
HONG, MIN S: Three-dimensional surface characterization by 2D autoregressive models, 5A384
HONG, OUYANG: Multi-zone simulation of the Bridgman growth process of β-NiAl crystal, 10A1304
HONG, WEI: Modeling of pressureless constant heating rate sintering of ceramic matrix composites, 3A454
HONG, YS: Effects of dissolved gas content on pool boiling of a highly wetting fluid, 3A1080
- Identification of pool-boiling heat transfer mechanisms from a wire immersed in saturated FC-72 using a single-photo and LDA method, 8A1125
HONG, ZUU-CHANG: PDF description of turbulent plane Couette flow, 4A934
- Flight envelopes for hypersonic serorendezvous at constant altitude, 12T385
HONGERHOLT, D: Stress distribution determination in isotropic materials via inversion of ultrasonic Rayleigh wave dispersion data, 11A414
HONIG, A: Verification of the transferability of micromechanical parameters by cell model calculations with visco-plastic materials, 5A455
HONJO, Y: Inverse analysis of a regional groundwater flow model by extended Bayesian method: In case of steady flow data (Japanese), 10T1063
HONMA, A: Construction methods of 3D shapes based on the nesting behavior of paper wasps, 9A883
HONMA, T: Simplified analysis of circular plates including voids, 3A535
HONMA, Y: Simple method to calculate the variance of operational ratio in automatic production lines (Japanese), 7A486
HOO FATT, MS: Fully-plastic crack propagation in stiffened plates, 5A629
- Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, 10A275
- Transient response of an impulsively-loaded plastic string on a plastic foundation, 11A449
HOO, E: Performance of direct-contact heat and mass exchangers with steam-gas mixtures at subatmospheric pressures, 6A1145
HOOGENBOOM, PCJ: Stringer panel model for structural concrete design, 11A764
HOOGENDOORN, CJ: Laminar natural convection flow in trapezoidal enclosures, 1A1188
- Comparison exercise for computations of turbulent natural convection in enclosures, 1A1186
HOOGERBRUGGE, PJ: Brownian Dynamics simulation of reversible polymeric networks, 4A927
HOOGSTRATEN, HW: Merging flows in an arterial confluence: The vertebro-basilar junction, 6A1347
- Influence of the angle of confluence on the flow in a vertebro-basilar junction model, 6T1346
- Numerical simulation of blood flow in an artery with two successive bends, 12A1475
HOOKE, CJ: Note on tip relief and backlash allowances in non-metallic gears, 7A1010
- Investigation into the effects of orifice size, offset and overclamp ratio on the lubrication of slipper bearings, 10T1012
HOOKER, DT: Damage response of submerged imperfect cylindrical structures to underwater explosion, 12A238
HOOKER, RJ: Technique for biaxial damping measurement, 5A166
HOOKHAM, PA: Modeling of dust entrainment by high-speed airflow, 12A1083
HOON, KH: Semi-energy and the lower bound methods to the post-buckling of plate, 3A550
HOPE, RW: Robustness of adaptive unbalance control of rotors with magnetic bearings, 6A330
HOPFINGER, EJ: Fourth Int Symposium on stratified flows held at Univ Joseph Fourier, Grenoble, June 29 - July 2, 1994, 7A1061
- Fourth International Symposium on Stratified Flows: Part B, University Joseph Fourier, Grenoble, June 29 - July 2, 1994, 8A875
HOPKINS, DA: Structural optimization with approximate sensitivities, 3A765
- Three dimensional structural analysis by the integrated force method, 5A726
- Completed Beltrami-Michell formulation for analyzing mixed boundary value problems in elasticity, 6A376
- Development of FEs for 2D structural analysis using the integrated force method, 9A53
- Comparative evaluation of different optimization algorithms for structural design applications, 10A876
- Effects of delaminations on the damped dynamic characteristic of composite laminates: Analysis and experiments, 11A655
HOPKINS, MA: Effects of individual ridging events on the ice thickness distribution in the Arctic ice pack, 8A1400
- Optimal nonlinear estimation of linear stochastic systems: The multivariable extension, 12A330
HOPKINS, RW: Simplified model for buckling mechanism in lattice structures, 1A645
HOPKINS, SH: Gravity compensation technique for an n-legged robot, 8A361
- Optimal control of an n-legged robot, 9A451
- Variational approach to the optimization of gait for a bipedal robot, 11A378
HOPKINS, T: Parallel Iterative Methods (PIM) package for the solution of systems of linear equations on parallel computers, 6A65
HOPMAN, PC: Crack growth mechanism in asphaltic mixes, 7A774
HOPMEYER, J: How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, 12A1474
HOPPEL, CPR: Literature review: Effects of hydrostatic pressure on the mechanical behavior of composite materials, 2A438
HOPPERSTAD, OS: Cyclic stress-strain behavior of alloy AA6060 - Part I: Uniaxial experiments and modeling, 3A468
- Cyclic stress-strain behavior of alloy AA6060 T4 - Part II: Biaxial experiments and modeling, 3A469
HOQUE, A: Wind and solar generating units: Potential candidates for a generation mix of an isolated area, 4A1358
HORACEK, J: Vibration analysis of cylindrical shells in contact with an annular fluid region, 4A289
- Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, 12A263
HORAGUCHI, I: Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, 12A923
HORDIJK, DA: Fracture and fatigue behavior of a high strength limestone concrete as compared to gravel concrete, 6A747
HORGAN, CO: Saint-Venant end effects for plane deformations of elastic composites, 1A530
- End effects for antiplane shear deformations of sandwich structures, 4A808
- Remarks on ellipticity for the generalized Blatz-Ko constitutive model for a compressible nonlinearly elastic solid, 11A416
- Effects of curvilinear anisotropy on radially-symmetric stresses in anisotropic linearly elastic solids, 11A428
HORI, C: Distribution of tensile strength and its simulation in long-carbon-fiber reinforced plastic (Japanese), 4A485
HORI, M: Unstable propagation of a phase transition in a solid, 4A1322
- Developments of new technology in rock mechanics, from micro to macro - III: Applications to mechanical problems of rocks and rocks mass-micromechanics and homogenization method, 11T575
HORI, N: New approach to the design of digital model reference control systems, 6A339
HORI, Y: Experimental study on the thermohydrodynamic lubrication of tilted pad thrust bearings, 6T1050
HORIE, A: Giant magnetostriction actuator of laminated plate type (Japanese), 1A421
HORIE, M: Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, 12A970
HORII, H: Fracture mechanics-based design method for SFRC tunnel linings, 9A790
- Analytical model for fracture behaviors of pseudo strain-hardening cementitious composites, 9A740
- Micromechanics-based continuum model for rock masses and analysis of the excavation of underground power cavern (Japanese), 10A681
HORII, K: Industrial and Environmental Applications of Fluid Mechanics - 1995 ASME/JSME Fluids Eng Conf, 2N41
- Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
- Application of neural networks to multiobjective optimization (Japanese), 11A717
HORIKAWA, O: Achieving Ultra-Precision by mechatronics: Active air journal bearing, 7A419
HORIKI, K-I: Neurocomputing pavement performance model and its application to project level pavement management system (Japanese), 2T529
HORIKOSHI, O: Study of ignition process of diesel sprays, 1T1313
HORISAWA, H: New trend of energy beam processing technology (Japanese), 7T770
HORIUCHI, S: Approximation to strip impulse response of a half-space and interpretation of DSSI from wave scattering-propagation (Japanese), 5A178
HORIUCHI, T: Impact vibration analysis of group of hexagonal bars immersed in liquid, 9A308
HORIUCHI, Y: Study for a new type internal gear pump, 9T1241
HORLOCK, JH: Optimum pressure ratio for a combined cycle gas turbine plant, 4A1267
- Combined power plants: Past, present, and future, 5A1271
HORNBOGEN, E: Influence of transformation-induced crack closure on slow fatigue crack growth under variable amplitude loading, 2A568
HORNER, A: Genetic algorithm-based method for synthesis of low peak amplitude signals, 6A259
HORNER, MB: Examination of vortex deformation during blade-vortex interaction, 11A1068
HORNET, P: Experimental J evaluation from a load-displacement curve for homogeneous and over-matched SENB or CCT specimens, 1A797
HORNG, CHUEN-CHYI: Ultra-precision machining by the hydrodynamic polishing process, 4A643
HORNLEIN, HREM: Two approaches for truss topology optimization: A comparison for practical use, 12A833
HORNOWSKI, T: Critical properties of acoustic wave absorption in the benzonitrile-isooctane system, 9A389
HORNUNG, HG: Non-equilibrium dissociating flow over spheres, 2A908
- Transverse jet mixing and combustion experiments in hypervelocity flows, 6A1213
HOROSHENKOV, KV: Pade approximants for the acoustical characteristics of rigid frame porous media, 1A333
HOROWITZ, B: Range and null space decomposition applied to analysis of slender concrete columns, 2A769
HORR, AM: Modeling of nonlinear damping characteristics of a viscoelastic structural damper, 6A171
- Spectrally formulated FEM for vibration of a tubular structure, 11A40
HORSEWELL, A: Cracking and spalling of multilayered chromium coatings, 3A668
HORSFALL, I: Effect of through-thickness cracks on the ballistic performance of ceramic armour systems, 7A259
HORSFIELD, DW: Shear strength of reinforced geosynthetic clay liner, 9A660
HORSLEY, D: Strength of a hot tap reinforced Tee junction, 12A873
HORSLEY, M: Thermofluids, 11R41
HORST, AW: Projectile fin damage from propellant combustion, 3A1136
HORST, PCT: Benefits of operational load monitoring in civil transport aircraft, 2A796
HORSTMAN, CC: Measurements of the triple shock wave-turbulent boundary-layer interaction, 6A950
- Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, 6A948
HORTON, HP: Computation of compressible, laminar boundary layers on swept, tapered wings, 5T990
HORTON, S: Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, 6A1228
- Fault model with variable slip duration for the 1989 Loma Prieta, California, earthquake determined from strong-ground-motion data, 11A1338
HORVATH, M: Process planning with genetic algorithms on results of knowledge-based reasoning, 8A367
HOSAKA, H: Study on vibrational damping of microcantilevers (Japanese), 12A140
HOSAMEL-DEEN, YH: Statistical norms for off-road wheeled vehicle parameters, 3A162
HOSANGADI, A: Upwind unstructured scheme for 3D combusting flows, 11A1297
HOSEA, ME: New recurrence for computing Runge-Kutta truncation error coefficients, 4A64
HOSHIDE, T: Cyclic Fatigue in Ceramics - Current Japanese Materials Research, Vol 14, 7N14
HOSHIKA, Y: Tractive performance and compaction effect of a road roller running on a weak sandy soil, 10A685
- Optimum trafficability control system of a two-axle, two-wheel road roller during driving and braking action (Japanese), 10A440
HOSHIKAWA, T: Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), 5A126
HOSHIKUMA, J-I: Stress-strain model for reinforced concrete columns confined by lateral reinforcement (Japanese), 2A763
HOSHIKUMA, J-I: Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), 5T1328
HOSHINO, H: Diamond synthesis by magnetic field assisted arc discharge plasma jet CVD (Japanese), 11A617
HOSHIYA, M: Optimization of the discrete system using an importance sampling technique (Japanese), 1A877

- Prediction control of SDOF system, 2A737
- Identification of conditional stochastic Gaussian field, 7A70
HOSODA, K: Modeling of flexible manipulators using virtual rigid links and passive joints, 11A385
HOSOE, S: Linearization technique in robust nonlinear H ∞ control, 7A468
HOSOI, R: Drilling performance of new type twist drill, 9T707
HOSOI, T: Drilling performance of new type twist drill, 9T707
HOSOKAWA, I: Conditional Fourier spectral method for direct numerical simulation of incompressible flows, 4A974
- Chaotic behavior and heat transfer performance of the natural convection around a hot horizontal cylinder affected by a flat ceiling, 6A1074
- Trinomial generalized cantor set model for isotropic turbulence, 10A1174
HOSOKAWA, K: Free vibrations of clamped symmetrically laminated skew plates, 7A159
HOSOKAWA, S: Visualization of solidification process in kinetics control system with interferometry, 1A1263
- Sectional area for calculation of deformation in screw thread (Japanese), 3A430
- Study on torque, axial tension and bending moment in the screw tightening - First Report: Relation between torque on fitted portion of threads and axial tension (Japanese), 12A469
HOSON, T: Formulation of pre-extension in a practical stress-relaxation measurement of the plant cell wall, 6A1340
HOSOYA, H: Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, 5A1329
HOSSAIN, D: Leakage control in long-duration testing of triaxial specimens, 3A573
HOSSAIN, MA: Radiation effect on mixed convection along a vertical plate with uniform surface temperature, 10A1264
HOSSAIN, MI: Creep modeling of rock salts for geoenvironmental application, 1A769
HOSSEINALIPOUR, SM: Comparative evaluation of different turbulence models for confined impinging and opposing jet flows, 5A1138
HOSSEINI-SIANAKI, A: ER shear characteristics: Volume fraction, shear rate, time response, 12A431
HOSTEN, B: Measurement of elastic constants in composite materials using air-coupled ultrasonic bulk waves, 9A858
HOSUR, V: Influence lines for bending moments in beams on elastic foundations, 5A493
HOTA, VR: Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, 7A888
HOTTA, H: Empirical investigation on buckling and post-buckling behavior of cell liners, 11A538
HOTTNER, T: Theoretical and experimental investigations of wall adaptation control in wind tunnel and hybrid wind tunnel testing, 2A1073
HOU, G: Component mode synthesis-based design optimization method for local structural modification, 3A752
HOU, KH: Mixed-convection mass transfer in a fully developed horizontal square channel flow, 6A1180
HOU, LS: Analysis and FE approximation of optimal control problems for a Ladyzhenskaya model for stationary, incompressible, viscous flows, 4A971
- Optimal positioning of anodes for cathodic protection, 10A415
- Finite-dimensional approximation of a class of constrained nonlinear optimal control problems, 10A411
HOU, YC: New high-order non-uniform Timoshenko beam FE on variable two-parameter foundations for vibration analysis, 9A188
HOU, Z: Spectral density of a nonlinear single dof system's response to a white-noise random excitation: A unique case of an exact solution, 5A108
- Response of an SDOF system to periodic external and parametric excitations with random phase modulations, 11A768
HOU, ZHI-QIANG: Use of neural networks for identification of linear and nonlinear systems, 2A275
HOUAS, L: Shock-tube analysis of argon influence in titan radiative environment, 6A926
HOUCK, MH: Motivation for probalistic balancing rule models used for real-time reservoir operations: Newsboy problem approach, 6A891
HOUDE, J: Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, 3A782
HOUDUSSE, O: Cracking and permeability of concrete under tension, 10A841
HOUGH , SE: Source parameters of the 23 April 1992 M 6.1 Joshua Tree, California, earthquake and its aftershocks: Empirical Green's function analysis of GEOS and TERRAscope data, 6A1236
HOUGH, ME: Integral surfaces with space-time coordinates, in the gravitational field of a rotating system, 3A238
- Optimal guidance and nonlinear estimation for interception of accelerating targets, 3A352
HOUGH, SE: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279
HOUGHTALEN, RJ: Fundamentals of Hydraulic Engineering Systems, Third Edition, 4R23
HOUKES, Z: New numerical algorithm for temperature measurement based on the variational approach of an optimal control problem, 12A1249
HOULOT, M: Integration of in-site control systems in laser welding processes (French), 4A873
HOULSBY, GT: Large strain analytical solution for cavity contraction in dilatant soils, 4A607
HOUMAT, A: Vibrations of Timoshenko beams by variable order FEs, 4A162
HOUPIS, CH: Full envelope flight control system design using qualitative feedback theory, 6A311
- Literal Nyquist stability criterion for MIMO control systems, 8A264
HOURIGAN, K: Three-dimensional vortex structures in a cylinder wake, 10A1156
HOURNG, LIH WU: Application of flux-vector-splitting scheme to a dilute gas-particle JPL nozzle flow, 11A931
HOUSE, JM: Optimal control of HVAC systems using DDP and NLP techniques, 8A336
HOUSE, LS: Single-station spectral discrimination using coda waves, 3A1280
HOUSNER, GW: Continuing challenge: Report on the performance of state bridges in the Northridge Earthquake, 7A1376
HOUSTON, BH: Fiber-embedded mandrel-stiffened planar acoustic sensor, 1A359
- Structural acoustics and active control of interior noise in a ribbed cylindrical shell, 12A298
HOUSTON, SD: Heat transfer to sliding bubbles on a tube under evaporating and non-evaporating conditions, 3T1092
HOUSTON, SL: Development of t-z curves for cemented fine-grained soil deposits, 6A524
HOUSTON, WN: Development of t-z curves for cemented fine-grained soil deposits, 6A524
HOUTMAN, EM: Surface reflective visualization system study to vortical flow over delta wings, 5A995
HOUWING, AFP: Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049
- Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, 12A861
HOW, TV: Effects of geometry and flow division on flow structures in models of the distal end-to-side anastomosis, 12A1472
HOWARD , AH: Investigation of a heat pipe array for convective cooling, 3A1155
HOWARD, GS: Evolution of Westinghouse heavy-duty power generation and industrial turbines, 10A1384
HOWARD, IC: Experience in the use of damage mechanics to simulate crack behavior in specimens and structures, 1T796
- Implications of the use of the PD6493 level 3 failure assessment procedure, 6A689
- Predicting the effects of crack tip constraint on material resistance curves using ductile damage theory, 10A785
- Examination of methods of assessing interacting surface cracks by comparison with experimental data, 12A711
- Use of constraint-modified failure assessment lines in failure assessment diagrams, 12A749
HOWARD, JB: Infrared analysis of flame-generated PAH samples, 9A1336
HOWARD, JE: Unified Hamiltonian stability theory, 3A233
HOWARD, RM: Effects of a closely coupled static and oscillating canard, 5T1002
- Flying-qualities analysis of an unmanned air vehicle, 9A1227
- Aerodynamic interference of dissimilar aircraft flying in close proximity, 9T1224
HOWARTH, CS: Modification and application of a unit cell continuum model to predict the elastic properties of textile composites, 6A454
HOWDEN, K: Purification of silicone oils for fluid experiments, 3T1011
HOWE, D: Prediction of aircraft wing mass, 11A793
HOWE, MS: Damping of flexural and acoustic waves by a bias-flow perforated elastic plate, 1A251
- Damping of sound by wall turbulent shear layers, 1A294
- Force and moment on a body in an incompressible fluid, with application to rigid bodies and bubbles at high and low Reynolds numbers, 1A990
- Damping of sound and vibration by flow nonlinearity in the apertures of a perforated elastic screen, 6A214
- Energy conservation and the damping of flexural waves by vorticity production, 7A287
- Influence of mean flow on boundary layer generated interior noise, 12A275
HOWE, RD: Comparison of contact sensor localization abilities during manipulation, 12A433
HOWE, RM: Stability and accuracy analysis of Baumgarte's constraint violation stabilization method, 5A95
HOWELL, JR: Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part II: Dependent scattering effect, 3A1142
- Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part I: Predictions assuming independent scattering, 3A1141
- Absorption-scattering coefficients and scattering phase functions in reticulated porous ceramics, 8A1178
HOWELL, LL: Topological synthesis of compliant mechanisms, 6A858
- Loop-closure theory for the analysis and synthesis of compliant mechanisms, 8A841
- Evaluation of equivalent spring stiffness for use in a pseudo-rigid-body model of large-deflection compliant mechanisms, 8A840
HOWELL, M: Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, 5T9
HOWISON, SD: Dynamic simulation of the conforming shell gas journal bearing, 4A854
- Cusp development in free boundaries, and 2D slow viscous flows, 4A945
HOWLE, LE: Comparison of the reduced Galerkin and pseudospectral methods for simulation of steady Rayleigh-Benard convection, 11A1126
HOWLETT, LC: Comparison of theory with atomic oxygen radiance data from a rocket flight, 3A992
HOWSON, WP: Exact dynamic stiffness matrix of a bending-torsion coupled beam including warping, 9A185
HOY, T: Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806
HOYAL , DCJD}: Effect of turbulence on sediment deposition, 1A975
HOYING, DA: Stall inception in a multistage high-speed axial compressor, 2A1044
HOYT, JW: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Turbulent-flow dye-streak technique, 5A977
HOZAWA, M: Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, 12A1239
HRIBERSEK, M: Iterative methods in solving Navier-Stokes equations by the BEM, 5A890
HROMADKA II, TV: Modeling error in evaluation of the CVBEM matrix system, 11A53
HROVAT, D: Two dof model for jerk optimal vehicle suspensions, 7A410
HRYNIEWICZ, Z: Dynamic-stiffness matrix for in-plane motion in a layered depth-dependent randomly inhomogeneous semi-infinite medium, 9A264
HSIA, AH: Critical states and flow structure on a 65-deg delta wing, 9A1216
HSIA, JENG-HONG: Influence of friction-speed relation on the occurrence of stick-slip motion, 5A773
HSIA, KJ: Technique to generate straight through thickness surface cracks and its application to studying dislocation nucleation in Si, 8A687
HSIA, TC: Stability analysis of a robust PD control law for robot manipulators, 11A266
HSIA, YC: Discrete tones generated by a supersonic jet ejector, 7A319
HSIA, YEN-SHENG: Effect of fluorinated graphite on combustion of boron and boron-based fuel-rich propellants, 6A1204
HSIAO, A: Study of the correlation between surface roughness and cutting vibrations to develop an on-line roughness measuring technique in hard turning, 7A746
HSIAO, FEI-BIN: Influence of surface flow on aerodynamic loads of a cantilever wing, 8A1010
HSIAO, FENG-HSIAG: Stabilization of nonlinear singularly perturbed multiple time-delay systems by dither, 9A408
HSIAO, GC: Asymptotic and a posteriori error estimates for BE solutions of hypersingular integral equations, 10A54
HSIAO, H-SS: Ultrathin liquid lubrication of magnetic head-rigid disk interface for near-contact recording - Part I: A closed-form solution to the Reynolds equation, 10A998
- Ultrathin liquid lubrication of magnetic head, rigid disk interface for near-contact recording - Part II: Shear thinning and thermal thinning, 10A959
HSIAO, HM: New compression test method for thick composites, 2A453
HSIAO, KM: Effect of member initial curvature on a flexible mechanism response, 7A601
HSIAO, MIN-HUNG: Optimal modal-space controller for structural damping enhancements, 1A380
- Identification of stochastic system and controller via projection filters, 10A397
- Indirect identification of linear stochastic systems with known feedback dynamics, 12A327
- Iterative LQG controller design through closed-loop identification, 12A374
HSIAO, SHIH-WEN: Numerical study of transient natural convection about a corrugated plate embedded in an enclosed porous medium, 1A1219
- Free-form surface subdivision method for car style design, 11T824
HSIAU, JAR-SIAN: Machining rate of hydrodynamic polishing process, 3A1001
HSIAU, SS: Granular thermal diffusion in flows of binary-sized mixtures, 8A927
HSIEH, C-K: Influence of inner-wall motion on the linear stability of natural convection in a tall vertical annulus, 3A1051
HSIEH, CHI-TI: Shaft behavior of BTA deep-hole drilling tool, 8A131
HSIEH, CK: Pressure drop in corrugated pipes, 12A1119
HSIEH, DY: Hydrodynamic instabilities, chaos and phase transition, 10A1167
HSIEH, HSIN-I: Kinematic analysis of epicyclic-type transmission mechanisms using the concept of fundamental geared entities, 12A980
HSIEH, LONG-CHANG: Kinematic design of differential devices for full time four-wheel-drive vehicles, 8A823
HSIEH, SHOU-SHING: Transient 3D natural convection in a rectangular enclosure, 3A1048
- Developing 3D laminar mixed convection in a circular tube inserted with longitudinal strips, 4A1158
HSIEH, SJ: Flow developments above 50-deg sweep delta wings with different leading-edge profiles, 1A1102
HSIEH, TC: Hybrid neural network for image classification, 1A850
HSIEH, WD: Modified low-Reynolds-number turbulence model applicable to recirculating flow in pipe expansion, 5A969
HSIEH, WH: Compression processes and performance analysis of a high-pressure reciprocating gas compressor, 11A1049
HSIUN, CHIH-MIN: Aerodynamic characteristics of a 2D airfoil with ground effect, 9A1213
HSU, AT: Assumed and evolution probability density functions in supersonic turbulent combustion calculations, 4A1251
HSU, CA: High-order streamline Godunov scheme for steady supersonic flow computation, 1A1027
- Computation of free surface flows - Part III: Steady supercritical flow using a generalized Lagrangian method, 8A891
HSU, CH: Least-squares FEM for incompressible flow in stress-velocity-pressure version, 5A891
HSU, CHAO-HO: Multilevel solution for thermal elastohydrodynamic lubrication of rolling-sliding circular contacts, 6T1049
HSU, CHENG HSING: Compositionally convective and morphological instabilities of a binary fluid layer under freezing with nonlinear analysis, 4A1242
- Thermal stability of horizontally superposed porous and fluid layers in a rotating system, 8A1087
HSU, CHENG-HSING: Runge-Kutta method for a two-layer system to shoot from two constraint sets to the same target set, 11A50
HSU, CHIUNG-WEN: Developing key components and products in Taiwan, 8T374
HSU, CW: Thin and deep hole drilling using a fuzzy discrete sliding mode control with a woodpeckering strategy, 6A579
HSU, DK: Quantitative estimation of material properties of porous ceramics by means of composite micromechanics and ultrasonic velocity, 12A562
HSU, HORNG-CHAUNG: Importance of soft-tissue integrity on biomechanical studies of the patella after TKA, 9A1436
HSU, HUNG-HSIOU: Analysis of plastic instability during sandwich sheet rolling, 3A607
- Analysis of asymmetrical clad sheet rolling by stream function method, 7A725
HSU, IC: Sensor cooling by direct blowdown of a coolant, 3A1077
HSU, J: Steady-state and transient dynamic simulation of a continuous foil bearing, 8T819
HSU, JRC: Oscillatory soil response and liquefaction in an unsaturated layered seabed, 5A547
HSU, K: Simulation of multiple shock-shock interference patterns on a cylindrical leading edge, 9A298
HSU, K-T: Investigation of hydraulic aperture at surface-exposed rock fractures in situ, 12T668
HSU, KC: Elastic instability of beams subjected to a partially tangential force, 2A196
HSU, KE SHENG: Simulations of gas penetration in thin plates designed with a semicircular gas channel during gas-assisted injection molding, 6A940
- Polymer melt flow and gas penetration in gas-assisted injection molding of a thin part with gas channel design, 12A1219
HSU, KF: Simulation of the melt front advancement in injection molded plate with a rib of semicircular cross section, 1A1211
- Numerical simulation and experimental verification of melt front advancements in coinjection molding process, 3A905
HSU, KK: Heat transfer during liquid contact on superheated surfaces, 3A1085
HSU, KS: Simulation of the melt front advancement in injection molded plate with a rib of semicircular cross section, 1A1211
HSU, KUO CHING: Elastic instability of a beam resting on an elastic foundation subjected to a partially tangential force, 10A623
HSU, KUO-FU: Polymer melt flow and gas penetration in gas-assisted injection molding of a thin part with gas channel design, 12A1219
HSU, KY: Hybrid neural network for image classification, 1A850

HSU, MENG-HUI: Variable-speed method for improving motion characteristics of cam-follower systems, 12A954
HSU, MH: Experimental study of the effects of cam speeds on cam-follower systems, 9A994
HSU, SM: Asperity-asperity friction as measured by a two-ball collision apparatus, 6A833
- Effects of operating parameters and environment on the wear and wear transition of alumina, 12A902
- Wear and wear transition modeling of ceramics, 12A917
- Wear and wear transition mechanisms of ceramics, 12A916
- Modeling of microfracture-induced wear and wear transition in sliding of polycrystalline alumina ceramics, 12A907
HSU, THOMAS TC: Behavior of reinforced concrete membrane elements in shear, 5A705
- Toward a unified nomenclature for reinforced-concrete theory, 8A754
HSU, TSAN-HUI: Natural convection of micropolar fluids in a 2D enclosure with a conductive partition, 1A1190
- Natural convection of micropolar fluids in a rectangular enclosure, 9A1255
HSU, TTC: Constitutive laws of softened concrete in biaxial tension-compression, 3A4
- Tension stiffening in reinforced concrete membrane elements, 7A944
- Fixed angle softened truss model for reinforced concrete, 9A916
HSU, TZE-CHI: Finite-element analysis of sheet metal forming processes, 6A565
HSU, TZU-SHENG: Validity of droplet ignition criteria derived assuming gas-phase quasisteadiness, 6A1194
HSU, WENSYANG: Modeling of a finger-follower cam system with verification in contact forces, 8A803
HSUEH, CHUN-HWAY: Crack-wake interfacial debonding criteria for fiber-reinforced ceramic composites, 11A674
HSUEH, WEN C: Suppression of chatter vibration in inner-diameter cutting, 9A228
HU , BINGXIANG: Dispersion analysis of dynamic FE semidiscretizations of the 2D wave equation (Chinese), 9T55
HU , J: Partial state feedback controller for trajectory tracking of rigid-link flexible-joint robots using an observed backstepping approach, 2A315
HU , R: Independent joint control: Estimation and compensation of coupling and friction effects in robot position control, 7A444
HU , SHOUSONG: Decentralized output feedback fault-tolerant control for uncertain large-scale systems, 7A420
HU , WEILI: Decentralized output feedback fault-tolerant control for uncertain large-scale systems, 7A420
HU, ANREN: Motion of a spacecraft with magnetic damper, 12T269
HU, B: Amplitude bounds of linear forced vibrations, 10A122
HU, C: Prediction of laser transformation hardening depth using a line source model, 1A738
- Ductile damage model corresponding to the dissipation of ductility of metal, 8A629
HU, CHANG-HONG: Slow drift damping force acting on a cylinder in waves, 6T217
HU, CHUNHONG: Bed-load transport - I: Mechanical characteristics, 10T1057
HU, CT: Edge dislocation of constant velocity near a static internal crack, 1A792
- Elastic interaction between a moving screw dislocation and a surface crack, 8A387
HU, DONG: Study of the fast reaction characteristics of aluminized PETN explosive powders, 10A335
HU, ERIC JING: Simulated results of a non-valve, daily-cycled, solar-powered carbon-methanol refrigerator with a tubular solar collector, 8A1389
HU, FQ: Low-dissipation and low-dispersion Runge-Kutta schemes for computational acoustics, 8T257
- Spatial evolution of centrifugal instabilities within curved incompressible mixing layers, 11A988
HU, GK: Viscoplastic analysis of adhesive joints, 9A1034
HU, HAI-CHANG: New method for deriving eigenvalue rate with respect to support location, 9T189
- Non-equivalence of the conventional boundary integral formulation and its elimination for plane elasticity problems, 10A527
- Degenerate scales and BE analysis of 2D potential and elasticity problems, 11A58
- Non-equivalence of the conventional boundary integral formulation and its elimination for 2D mixed potential problems, 12A56
HU, HAIYAN: Controlling chaos of a periodically forced nonsmooth mechanical system, 3A96
- Grazing orbits and related local bifurcations of an oscillator with continuous and piecewise-linear restoring force, 6A103
HU, HH: Parallel pipelining, 5A942
HU, HONG: Transonic wing flow computations using the field-panel method with a shock-fitting technique, 9A1113
HU, HONGFA: Mathematical modeling and experimental measurements of moving boundary problems associated with exothermic heat of mixing, 6A1186
HU, HOWARD H: Motion of a circular cylinder in a viscous liquid between parallel plates, 5A886
HU, HSUAN-TEH: Buckling optimization of symmetrically laminated plates with various geometries and end conditions, 6A496
HU, HT: Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, 4A574
HU, HUOSHENG: Parallel processing architecture for sensor-based control of intelligent mobile robots, 12A439
HU, HURANG: Analysis of energy release rate for cracked laminates, 1A804
- Effect of interlayer modulus on fracture mode ratio for interleaved composite laminates, 2A646
- Analysis of complex stress intensities for cracked laminates, 9A814
HU, HY: Detection of grazing orbits and incident bifurcations of a forced continuous, piecewise-linear oscillator, 4A134
HU, J: Effects of dendrite cell size and particle distribution on the near-threshold fatigue crack growth behavior of cast Al-SiCp composites, 11A625
HU, JD: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22
HU, JIAN SHIUN: Free vibration of delaminated composite sandwich beams, 3A142
HU, JIASEN: Turbulent flow in supersonic and hypersonic nozzles, 2A1074
- Compressibility and pressure-gradient correction assessment for turbulent hypersonic flows, 12T1069
HU, JM: Empirical crack propagation model and its applications for solder joints, 12A767
HU, JWU-SHENG: Feedforward and feedback control strategy for active noise cancellation in ducts, 12A294
HU, KX: Unified energy approach to a class of micromechanics models for composite materials, 3A508
- Generalized self-consistent mechanics method for solids containing elliptical inclusions, 5A413
- Numerical calculation of 2D effective moduli for microcracked solids, 8A388
- Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, 12A1273
HU, LIN-WEN: Predictions of void friction in convective subcooled boiling channels using a 1D two-fluid model, 3T1082
HU, NAISAI: Prediction of notch fatigue limits in a compressive residual stress field, 10A739
HU, PEIQI: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
HU, PING: Automatic quadrilateral mesh generation for planar regions (Chinese), 11A30
HU, RH: Fatigue crack growth under mode II loading, 6A598
HU, SAU-LON JAMES: Parametric random vibrations under non-Gaussian delta-correlated processes, 6A762
HU, SHOUFENG: Free edge effect on residual stresses and debond of a composite fiber-matrix interface, 1A540
HU, SHOUSONG: Decentralized robust fault tolerant control for the sensor failure of the fighter, 6A340
HU, SHOUXIN: Global analysis of secondary bifurcation of an elastic bar, 10A621
HU, SJ: Offset FE model and its applications in predicting sheet metal assembly variation, 1A718
- Tolerance analysis for sheet metal assemblies, 8A825
- Data-based models for automobile side impact analysis and design evaluation, 10A283
HU, TD: Finite element analysis of anisotropic fluid suspensions, 6A20
HU, W: Evaluation of a large time increment method, 4A472
HU, WEILIN: Natural convective boiling in vertical rectangular narrow channels, 8T1131
HU, WEN-RUI: Fractal features of oscillatory convection in the half-floating zone, 2A1098
HU, WR: How to determine critical Marangoni number in half floating zone convection, 11A1127
HU, X: Trace averaging domain decomposition method with nonconforming FEs, 7A39
HU, XIAO-ZHI: Comparative study of dynamic and static delamination behavior of carbon fiber-epoxy composite laminates, 4A482
HU, XIAOYU: Effect of velocity on flow localization in tension, 8A429
HU, XZ: Crack tip damage development and crack growth resistance in particulate reinforced metal matrix composites, 9A815
HU, YIAN-TAI: Two-dimensional problem of anisotropic elastic body with a hyperbolic boundary, 1A470
HU, YUANTAI: Boundary value problems of 2D anisotropic body with a parabolic boundary, 12A499
HU, YUNTAO: Characterization of micellar structure dynamics for a drag-reducing surfactant solution under shear: Normal stress studies and flow geometry effects, 4A903
HU, Z: Reduction of unburnt hydrocarbon emissions from spark ignition engines using in-cylinder catalysis, 10A1389
HU, ZHANGWEI: Research and practice of the selective direction noise measurement method (Chinese), 10T369
HU, ZHENGJUN: Heat transfer enhancement in a converging passage with discrete ribs, 8A1200
HUA, DY: Application of transient elastohydrodynamic lubrication analysis for gear transmissions, 2A1055
HUA, M: Mathematical modeling of the internal bending moment at the top roll contact in multi-pass four-roll thin-plate bending, 3A600
HUA, SHUNG-FANG: Possible route to chaos for the Korteweg-deVries equation, 1T100
HUA, XIN: Novel method for the measurement of J resistance curves, 4A764
HUA, YL: Modified Janssen theory for flexible circular bins, 10A957
HUACUZ, JM: Field performance of lead-acid batteries in photovoltaic rural electrification kits, 3A1383
HUAI, WENXIN: Calculation of whole field for vertical round buoyant jets in static linearly stratified environment, 7A1107
HUANG , CHENGGUAN: Laser-induced reverse plugging effect, 3A648
HUANG , DEZHONG: Diesel engine vibration analysis and fault diagnostic system (Chinese), 3A167
HUANG , GUANGYUAN: Inverse analysis method of displacements in rock engineering (Chinese), 9A687
HUANG , JIE: Real-time post-treatment algorithm for adaptive noise cancellation used in speech enhancement (Chinese), 8A255
HUANG , QIN-SHENG: Diffusion properties of oiled wastewater in open channel, 4A917
HUANG , QINGDA: Direct perturbation method of nonlinear vibration frequency about elastic circular cone flat shell of axial symmetry (Chinese), 9A121
HUANG , WENBIN: Geometric nonlinear analysis of frame structures - I: 2D problem (Chinese), 9A31
HUANG, A: Parallel pipelining, 5A942
HUANG, B-Z: Simple method to follow post-buckling paths in FE analysis, 1A678
HUANG, BC: Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, 7A192
- Analytical determination of equivalent modal damping ratios of a composite tower in wind-induced vibrations, 8A142
HUANG, BIN-CHANG: Thermodynamic performances of non-CFC working fluids in heat-pump cycles, 11A1088
HUANG, BOR-SHOUH: Numerical modeling of fault-zone trapped waves: Acoustic case, 6A1285
HUANG, CC: Numerical simulation of transitional aiding mixed convective air flow in a bottom heated inclined rectangular duct, 8A1096
HUANG, CHANG-GUEY: Free and forced vibrations of a Timoshenko beam with any number of translational and rotational springs and lumped masses, 2A92
HUANG, CHENG: Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, 11A137
HUANG, CHENG-HUNG: Inverse problem in simultaneously measuring temperature-dependent thermal conductivity and heat capacity, 2A1119
- Function estimation in predicting temperature-dependent thermal conductivity without internal measurements, 3A1106
- Inverse problem in predicting temperature dependent heat capacity per unit volume without internal measurements, 7A1249
- Numerical algorithm for estimating temperature-dependent thermal conductivity, 12A1251
HUANG, CHIH-HSING: Free vibration of composite laminated plates subjected to temperature changes, 11A134
HUANG, CHIH-SHUNG: Experimental study of the heat transfer enhancement of an outer tube with an inner-tube insertion, 2A1087
HUANG, CHING-HUA: Shear-driven high-temperature fatigue crack growth in polycrystalline alumina, 3A653
HUANG, CHUN-CHE: Overview of Kanban systems, 10A507
HUANG, CS: Accurate vibration analysis of simply supported rhombic plates by considering stress singularities, 5A135
HUANG, D: Instability of a cylindrical shell under three-point bending, 12A6
HUANG, DISHAN: Wavelet-based algorithm for the Hilbert transform, 11A274
HUANG, DONGZHOU: Dynamic behavior of horizontally curved I-girder bridges, 1A173
- Vibration of thin-walled box-girder bridges excited by vehicles, 1A175
- Dynamic response of highway girder bridges, 12A199
HUANG, FENG-LEI: Strain rate effect on representative volume element with penny-shaped crack under dynamic loading, 2A670
HUANG, FUANG-YUAN: Boundary element method for micropolar elasticity, 10A526
- Boundary element method for micropolar thermoelasticity, 11A1254
HUANG, FY: Instability mechanisms of a disk rotating close to a rigid surface, 5A142
- Derivation of a thin film equation by a direct approach, 12A245
HUANG, GC: Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, 4A45
HUANG, H: Transient interaction of a spherical shell with an underwater explosion shock wave and subsequent pulsating bubble, 3A197
- Acoustic scattering of a plane wave by two spherical elastic shells, 3A271
- Acoustic point source scattering by a spherical elastic shell submerged beneath a free surface, 10A354
- No-slip boundary condition in finite difference approximations, 10A41
- Probabilistic analysis of ocean outfall mixing zones, 10T1453
HUANG, H-W: Numerical anomalies in simulating directional solidification of binary alloys, 11A1255
HUANG, HAI: Two-level multi-point approximation method for optimum design of complicated structures, 6A1048
HUANG, HANSON: Neoclassical solution of transient interaction of plane acoustic waves with a spherical elastic shell, 7A340
HUANG, HSIAO-PING: New robust state analytical predictor design for a general class of deadtime processes, 2T281
HUANG, HSIN-CHIEN: Thermal enhancement in laminar channel flow with a porous block, 10A1272
HUANG, HUEY-CHU: Estimation of site amplification from Dahan downhole recordings, 9A1384
HUANG, HW: Counter current vascular network model of heat transfer in tissues, 9A1455
HUANG, JC: Analysis of superplastic blow-forming in a circular closed-die, 12A669
HUANG, JEN-KUANG: Identification of linear stochastic systems through projection filters, 1T370
- Optimal modal-space controller for structural damping enhancements, 1A380
- Supression of nonlinear panel flutter at supersonic speeds and elevated temperatures, 7A294
- Shape and placement of piezoelectric sensors for panel flutter limit-cycle suppression, 9T652
- Identification of stochastic system and controller via projection filters, 10A397
- Indirect identification of linear stochastic systems with known feedback dynamics, 12A327
- Iterative LQG controller design through closed-loop identification, 12A374
HUANG, JIANMIN: Approximate formulas of impact force for normal impact of a finite elastic beam on elastic foundation by a finite rod, 9A571
HUANG, JIAYIN: Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, 7A611
- Problems of nonlinear bending for orthotropic rectangular plate with four clamped edges, 11A511
HUANG, JIE: Numerical approach to computing nonlinear H_{∞} control laws, 3A342
- Minimal robust servo-regulator for nonlinear systems, 5T320
- Algorithm of frequency domain least squares method used in system identification (Chinese), 8A267
- Identification of system functions from primary sensor to secondary source in active noise control system (Chinese), 8A253
HUANG, JIFENG: Shape optimization designs of trusses with discrete variables (Chinese), 8A723
HUANG, JIN H: Analysis of hybrid multilayered piezoelectric plates, 5A543
- Equivalent inclusion method for the work-hardening behavior of piezoelectric composites, 8A527
HUANG, JS: Fatigue of cellular materials, 5A595
HUANG, JU-CHANG: Novel design for constant-pressure water-displacement gas collector, 2T1282
HUANG, JUNQI: General second order fluid flow in a pipe, 6A958
HUANG, JY: Prediction of the residual strength of laminated composites subjected to impact loading, 6A444
- Elastodynamic analysis of nonplanar cracks in a half-space, 9A269
HUANG, KAIZAN: Dynamic response of highway girder bridges, 12A199
HUANG, KANGLE: Exact solutions for 1D transport with asymptotic scale-dependent dispersion, 9A1299
HUANG, KH: Layer-wise analysis for free vibration of thick composite cylindrical shells, 2A119
HUANG, KUN-CHING: Convective transport phenomena in an impulsively started lid-driven open-cavity flow, 10A1249
HUANG, L: Experimental investigation of the effects of subcooling and velocity on boiling of Freon-113, 11A1171
- Transient heating and melting of particles in plasma spray coating process, 11A1201
HUANG, LC: Boundary treatment for the numerical solution of the incompressible Navier-Stokes equations with finite difference methods, 10T1081
HUANG, LIWEN: Stress measurement of titanium pressure vessels, 8A782

HUANG, LOON-MENG: Reinforced concrete T-beams with large web openings in positive and negative moment regions, 11A761
HUANG, M: Softening, localization and adaptive remeshing: Capture of discontinuous solutions, 6A412
HUANG, MG: Study on the dual integral of J, 11T661
HUANG, MIN-WEI: Self-scaling implicit SQP method for large scale structural optimization, 11A777
HUANG, MING-KE: Stability of leading-edge vortex pair on a slender delta wing, 11A986
HUANG, MINGKE: Computation of compressible flow past slender wing-body using full-potential equation, 10T1105
HUANG, MS: Simplifications and comparisons of shape memory alloy constitutive models, 9A7
HUANG, PG: Compressible turbulent channel flows: DNS results and modeling, 6A991
HUANG, PING: Thin film lubrication - Part I: Study on the transition between EHL and thin film lubrication using a relative optical interference intensity technique, 12A1193
HUANG, PY: Wall effects on the flow of viscoelastic fluids around a circular cylinder, 4A969
- Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, 10A1119
HUANG, Q: Characterization, production, and reconstruction of substrate guided wave holointerferograms, 10A852
- Experimental study of a fluidic type fuel injector in comparison with a solenoid type injector, 10A1387
HUANG, REIFANG: Variational principle of thin shell in stability, 8A516
HUANG, REN: Structure identification method for random vibration (Chinese), 4T140
HUANG, RF: Influence of surface flow on aerodynamic loads of a cantilever wing, 8A1010
HUANG, RONG F: Thermal and concentration fields of burner-attached jet flames in cross flow, 9A1337
HUANG, RX: Fluid flow in loops driven by freshwater and heat fluxes, 2A1259
HUANG, S: Rare earth doped fiber for structural damage assessment, 2A710
- Dynamics of small-sagged taut-slack marine cables, 4A163
- Vibration signature analysis of a faulted gear transmission system, 8A154
HUANG, SC: Trefftz method as an integral equation, 5A52
HUANG, SHENGYANG: Motion control of free-floating variable geometry truss - Part 1: Kinematics, 12A386
- Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, 12A387
HUANG, SHIUH-JER: Application of neural networks in self-tuning constant force control, 3A382
- Application of grey predictor and fuzzy speed regulator in controlling a retrofitted machining table, 7T735
HUANG, SHYH-CHIN: Vibration of a spinning cylindrical shell with internal-external ring stiffeners, 10A189
HUANG, SHYH-CHOUR: Biomechanical modeling and simulations of automobile crash victims, 1A1457
HUANG, SUYI: Convection and heat transfer of elliptical tubes, 3A1017
HUANG, TH: Spectral-based peak-shear-strength criterion for rock joints, 3A593
HUANG, TIEN-KUEN: Stability analysis of an earth dam under steady state seepage, 5A556
HUANG, TSAN-HWEI: Effects of frequency on damping properties of sand, 12A648
HUANG, TT: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
- Laser Anemometry - 1995 ASME/JSME Fluids Eng Conf, 2N44
HUANG, TUNG-YUNG: Function space BFGS quasi-Newton learning algorithm for time-varying recurrent neural networks, 9A405
HUANG, W: Ultrasonic evaluation of fatigue damage in metal matrix composites, 4A779
- Oblique scattering of an elastic wave from a multilayered cylinder in a solid: Transfer matrix approach, 10A266
- Generalized self-consistent model for composites with functionally graded and multilayered interphases: Transfer matrix approach, 10A567
HUANG, WEI: Finite element analysis on collision between two moving elastic bodies at low velocities, 1A221
- Artificial intelligence β-unzipping method in structural system reliability analysis, 12A837
HUANG, WEN: Geometric nonlinear analysis of frame structures - I: 2D problem (Chinese), 9A31
HUANG, WEN-TANG: Input estimation approach to on-line 2D inverse heat conduction problems, 10A1295
HUANG, WENHU: Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), 4A108
- Generalized ray approximate method to inverse medium parameters, 9A274
- Transition matrix inversion method in a stratified medium (Chinese), 10A254
- Method of interface inversion in inhomogeneous media, 10A253
HUANG, WL: Estimation of nonlinear damping coefficients from large-amplitude ship rolling motions., 9A961
HUANG, X: Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, 11A797
- Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, 12A1046
HUANG, XH: Determining relative density of sands from CPT using fuzzy sets, 6A537
HUANG, XIALUN: Extension of a cable in the presence of dry friction, 11A497
HUANG, XIAOLUN: Dry friction losses in axially loaded cables, 11A496
HUANG, XY: Suppression of vortex shedding from a circular cylinder by internal acoustic excitation, 1A1068
- Pressure and velocity fields in the wick structure of a localized heated flat plate heat pipe, 7T1268
- Feedback control of vortex shedding from a circular cylinder, 7A1110
HUANG, Y: Unified energy approach to a class of micromechanical models for microcracked solids, 1A832
- Unified energy approach to a class of micromechanics models for composite materials, 3A508
- Generalized self-consistent mechanics method for solids containing elliptical inclusions, 5A413
- Brazilian disk for measuring fracture toughness of orthotropic materials, 8A684
- Numerical calculation of 2D effective moduli for microcracked solids, 8A388
- Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, 10A51
- Shakedown of a cracked body consisting of kinematic hardening material, 10A786
- Transonic crack growth along a bimaterial interface: An investigation of the asymptotic structure of near-tip fields, 11A693
- Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, 12A1273
HUANG, YAN: Variational principle of thin shell in stability, 8A516
HUANG, YANLING: Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, 6A424
HUANG, YIJUN: Transient response of a finite crack in an orthotropic strip under the in-plane shear impact, 10A818
HUANG, YJ: Shakedown of a CT specimen with St52 steel: Experimental analytical and numerical investigations, 3A470
HUANG, YOU-MIN: Finite-element simulation of the bending process of steel-polymer-steel laminate sheets, 3A16
- Elasto-plastic FE simulation of successive UO-bending processes of sheet metal, 3A14
- Influence of the die arc on formability in cylindrical cup-drawing, 7A22
- Influence of the tool clearance in the cylindrical cup-drawing process, 10A697
HUANG, YQ: Convergence of multigrid methods for solving FE equations in the presence of singularities, 6A5
HUANG, YUAN: Effects of partial-grooving on the performance of spiral groove bearings: Analysis using a perturbation method, 10T1009
HUANG, YUAN MAO: Practical design of an airship, 5A737
HUANG, YUEFENG: Lifting behavior of multi-thread screw ship unloader (Chinese), 8A1033
HUANG, YUYING: Boundary value problems of 2D anisotropic body with a parabolic boundary, 12A499
HUANG, Z: Multigrid algorithm for Stokes problem, 6A900
HUANG, ZHILONG: Approximate linear buckling analysis for a sort of beam system (Chinese), 11A550
HUBBARD JR, JE: Modeling approach for 2D distributed transducers of arbitrary spatial distribution, 10A150
HUBBARD, AJ: Hazardous air emissions potential from a wood-fired furnace, 8A1256
HUBBARD, CR: Surface residual stresses in machined austenitic stainless steel, 12A693
HUBBARD, M: Two dof model for jerk optimal vehicle suspensions, 7A410
HUBBARD, S: Boundary-layer control by heat and mass transfer, 2A1102
HUBEL, H: Basic conditions for material and structural ratcheting, 11A453
- Engineering data control for bid and order handling in the capital plant industry, 12T474
HUBER, DJ: Combined cycle designed to achieve greater than 60 percent efficiency, 5A1270
HUBER, NF: Longitudinal vibration effects on a copper-water heat pipe's capillary limit, 6A1150
HUBNER, C: Influence of dewetting in filled elastomers on the changes of their mechanical properties, 9A502
HUBNER, W: Subsurface deformation of steel by solid particle impact investigated by ion beam slope cutting and scanning electron microscopy, 3A663
- East German special issue, 9A977
HUBRAL, P: AVO correction for scalar waves in the case of a thinly layered reflector overburden, 8A1326
- Unified approach to 3D seismic reflection imaging - Part II: Theory, 11A1381
- Unified approach to 3D seismic reflection imaging - Part I: Basic concepts, 11A1380
HUDSON, J: Modeling and the adaptive solution of reactive vapor infiltration problems, 6A589
HUDSON, JD: h^{α} accurate vorticity-velocity formulation for calculating flow past a cylinder, 2A883
- Methods of solution of the velocity-vorticity formulation of the Navier-Stokes equations, 5A892
- Turbulence production in flow over a wavy wall, 8A980
HUDSON, RC: Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, 8A645
HUEBNER, LD: Computational inlet-fairing effects and plume characterization on a hypersonic powered model, 5A898
HUECK, U: Formulation for the 4-node quadrilateral element, 2A30
- Incompressible constraint of the 4-node quadrilateral element, 2A32
- Formulation of the QS6 element for large elastic deformations, 10A30
HUERTA, A: Nonlinear Finite Element Techniques Using an Object-Oriented Code, 11N8
- Arbitrary Lagrangian-Eulerian FE analysis of strain localization in transient problems, 5A8
HUET, C: Bounds for the overall properties of viscoelastic heterogeneous and composite materials, 9A501
HUFENBACH, B: Design studies of the advanced technology engine, 4A1270
HUFENBACH, W: Laminated cylindrical shells under mechanical and hygrothermal loads, 5A512
- Design and construction of hygro-thermally stable shells, 7A566
HUGGER, J: Recovery of the optimal mesh density function and near-optimal meshes with rectangular elements in the mapped domain, 1A36
HUGGINS, F: Ash vaporization in circulating fluidized bed coal combustion, 9A1322
HUGHES, AF: Verifying the performance of standard ductile connections for semi-continuous steel frames, 7A960
HUGHES, D: Quantification of Uncertainty in Computational Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf, 2N3
- Passivity motivated controller design for flexible structures, 11T332
HUGHES, DW: Double-diffusive convection with two stabilizing gradients: Strange consequences of magnetic buoyancy, 4A1244
HUGHES, E: Estimated error bounds for FE solutions of elliptic boundary value problems, 12A17
HUGHES, JB: Individual biotransformation rates in chlorinated aliphatic mixtures, 6T1305
HUGHES, M: Numerical modeling of DC electromagnetic pump and brake flow, 4A1103
HUGHES, O: Lateral distortional buckling of monosymmetric I-beams under distributed vertical load, 12A614
HUGHES, OF: Elastic tripping analysis of asymmetrical stiffeners, 12A146
HUGHES, PE: Effects of geometry and flow division on flow structures in models of the distal end-to-side anastomosis, 12A1472
HUGHES, SPF: Design and performance of an experimental external fixation device with load transducers, 4A1369
HUGHES, TJR: Dynamic analysis and drilling dof, 2A480
- Finite element methods in large-scale computational fluid dynamics, 4A20
- Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles, and the origins of stabilized methods, 4A47
- A *posteriori* error estimation and adaptive FE computation of the Helmholtz equation in exterior domains, 11A27
- Explicit residual-based a posteriori error estimation for FE discretizations of the Helmholtz equation: Computation of the constant and new measures of error estimator quality, 12A304
HUGO, RJ: Quantification of aero-optical phase distortion using the small-aperture beam technique, 4A1132
HUGOT, G: In-service aging of heavy PWR components, 1A1412
HUGUET, P: Conceptual framework for shopfloor production activity control, 2A335
HUH, J-W: Fatigue strength and fracture mechanism of ceramic-metal joints under cyclic bending, 1A757
HUHNER, M: Influence of transformation-induced crack closure on slow fatigue crack growth under variable amplitude loading, 2A568
HUI, A: Fuzzy expert system for the design of machining operations, 2A327
HUI, C-Y: Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, 2A424
- Complex variable formulations for usual and hyperingular integral equations for potential problems: With applications to corners and cracks, 10A827
- Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezoelectric material, 11A558
HUI, CY: Why K? High order singularities and small scale yielding, 4A698
- Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, 5A655
- Method for thermo-mechanical analysis of steady-state dynamic crack growth, 8A673
HUI, K: Design of compensators for actuator saturation, 2A269
HUI, PW: Fluid conductance of cancellous bone graft as a predictor for graft-host interface healing, 6A1314
HUI, WEN-HUA: Study of wear resistance of a new brush-plated alloy Ni-Fe-W-S, 10A974
HUI, YUJIA: Bed-load transport - I: Mechanical characteristics, 10T1057
HUIMIN, X: Fabrication of high frequency gratings for high temperature, 2A326
HUISKES, R: Biomechanics of the human patella during passive knee flexion, 2A1284
- Development and validation of a 3D FE model of the pelvic bone, 5A1364
- Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, 6A1308
- Microdamage and osteocyte-lacuna strain in bone: A microstructural FE analysis, 11A1456
- Validation of a 3D model of the knee, 12A1454
HUIZHU, Z: Theoretical and experimental study of U-shaped trough shell of aqueduct, 2A477
HUKE, JP: Cancelling deterministic noise by constructing nonlinear inverses to linear filters, 6A278
HUKINS, DWL: Analysis of load-relaxation in compressed segments of lumbar spine, 7A1404
HULANDS, M: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223
HULBERT, G: Nonlinear viscoelastic bushing element in multibody dynamics, 10A118
HULBERT, GM: Automatic time step control algorithms for structural dynamics, 4A226
HULEK, T: Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, 2T894
- Computations of steady-state and transient premixed turbulent flames using pdf methods, 9A1315
HULL , ML: Dynamic optimization analysis for equipment setup problems in endurance cycling, 2A1317
HULL, DG: Midcourse guidance for a short-range attack missile using error compensation, 10A430
HULL, JB: Monitoring and control of a retail food container filling machine, 4A424
HULL, ML: 1995 Advances in Bioengineering, BED-Vol 31 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N35
- Effect of interface plate compliance on dynamometers incorporating octagonal strain rings, 5A687
- Strain in the medial collateral ligament of the human knee under single and combined loads, 6A1318
- Model for determining rider induced energy losses in bicycle suspension systems, 8A330
- Improved accuracy six-load component pedal dynamometer for cycling, 12A1484
HULSEN, MA: Lower bound for the invariants of the configuration tensor for some well known differential models, 4A888
HULT, E: In vivo measurement of spinal column viscoelasticity: An animal model, 2T1308
HULT, J: Engineering Mechanics of Fibre Reinforced Polymers and Composite Structures, 2N27
HUMBAD, NG: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7
HUMBLE, RW: Theoretical upper limits on enthalpy rocket performance, 8A1292
HUMBLE, WE: Maximum-payload trajectories for a laser-propelled launch vehicle, 4A365
HUMM, JH: Fast-response probes - Part 2: Aerodynamic probe design studies, 5A1078
HUMMES, D: Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
HUMPHREY, D: Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, 6A700
HUMPHREY, JD: Influence of size, shape, and properties on the mechanics of axisymmetric saccular aneurysms, 12A1466
HUNG, CHEN-I: Nonlinear stability analysis of magnetohydrodynamic condensate film flow down a vertical plate with constant heat flux, 5A982
- Weakly nonlinear stability analysis of condensate film flow down a vertical cylinder, 11A1176

HUNG, HINGHUA: Finite element analysis and optimization of springback reduction: The "double-bend" technique, 7A731
HUNG, KC: Modeling 3D vibration of elliptic bars, 1A135
- Three-dimensional vibratory characteristics of solid cylinders and some remarks on simplified beam theories, 1A139
- Vibration of stress-free hollow cylinders of arbitrary cross section, 5A140
- Free vibration of cantilevered cylinders: Effects of cross-sections and cavities, 5A119
HUNG, RJ: Baffle effect on sloshing-modulated torques responsed to orbital accelerations in microgravity, 1A248
- Combined gravity gradient and jitter accelerations acting on liquid-vapor interface oscillations in reduced gravity, 2A927
- Fluid force activated spacecraft dynamics driven by gravity gradient and jitter accelerations, 3T234
- Spin-up and wrapping of cryogenic helium bubble around dewar well from rest in microgravity, 4T965
- Sloshing-induced moment driven by gravity gradient associated with spacecraft slew motion, 5A245
- Actuation of sloshing modulated force and moment on liquid container driven by jitter accelerations associated with slew motion in microgravity, 6A206
- Modeling of sloshing modulated angular momentum fluctuations actuated by gravity gradient associated with spacecraft slew motion, 10A303
- Response of lateral impulse on liquid helium sloshing with baffle effect in microgravity, 12A259
HUNT, A: Mean free path and apparent thermal conductivity of a gas in a porous medium, 3T1118
- Comment on fractal and superdiffusive transport and hydrodynamic dispersion in heterogeneous porous media, by Muhammad Sahimi, 4A1291
HUNT, AJ: Approximate formulation for coupled conduction and radiation through a medium with arbitary optical thickness, 3T1138
- Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, 11A1205
HUNT, GW: Principles of localized buckling for a strut on an elastoplastic foundation, 9A622
- Evolution of localized folding for a thin elastic layer in a softening visco-elastic medium, 10A639
HUNT, JCR: Practical and fundamental devlecopments in the computational modeling of fluid flows, 4A951
HUNT, JD: Development of the twin-roll casting process, 7A756
HUNT, JL: Laser guidance for repairing gas turbine parts, 5A1034
HUNT, KH: Kinematic chains for robot hands - I: Orderly number-synthesis, 2A301
- Kinematic chains for robot hands - II: Kinematic constraints, classification, connectivity, and actuation, 2A302
HUNT, ML: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 7, 3N38
- Local measurements of velocity fluctuations and diffusion coefficients for a granular material flow, 6A1220
- Granular thermal diffusion in flows of binary-sized mixtures, 8A927
HUNT, RD: Statistical implications of methods of finding characteristic strengths, 7A919
HUNT, WD: Spurious bulk wave excitation in saw grating reflectors on GaAs (001)(110), 1A209
HUNTER, IT: Further assessment of numerical procedures for the study of fluid-structure interaction, 2A200
HUNTER, IW: Three-dimensional microfabrication by localized electrochemical deposition, 11A612
HUNTER, LJ: Numerical study of dispersion of passive scalars in city canyons, 3T1386
HUNTER, TB: Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling, 9A1328
HUNTLEY, JM: Automated fine grid technique for measurement of large-strain deformation maps, 3A727
- Multi-channel pressure sensor using speckle interferometry, 3A411
HUNTLEY, RW: Finite-difference depth migration of exploration-scale 3D seismic data, 11A1371
HUNTSMAN, I: Laminar flow rotor for a radial inflow turbine, 4A1116
HUO , LINCHUN: Direct perturbation method of nonlinear vibration frequency about elastic circular cone flat shell of axial symmetry (Chinese), 9A121
HUO, TONGRU: Dynamic-explicit elastic plastic FE simulation of hemispherical punch-drawing of sheet metal, 11A580
HUPPERT, HE: Solidification of a binary alloy of variable viscosity from a vertical boundary, 4A1194
- Entrainment into 2D and axisymmetric turbulent gravity currents, 8A874
HUQ, P: Role of micro-convection due to non-affine motion of particles in a mono-disperse suspension, 1A1247
HUREZ, P: Determination of heat transfer coefficient between PVC and steel in vacuum extrusion calibrators, 6A1113
HURLBURT, NE: Nonlinear compressible magneto-convection - Part 3: Traveling waves in a horizontal field, 4A1094
HURMUZLU, Y: Three dimensional rigid-body collisions with multiple contact points, 5A79
- Nonlinear dynamics of an elastic rod with frictional impact, 12A117
- Critical study of the applicability of rigid-body collision theory, 12A234
HURTADO, JA: Lamellar inhomogeneities in a uniform stress field, 6A384
HURZELER, BE: Dynamics of turbidity current with reversing buoyancy, 10A1058
HUSAIN, HS: Experiments on subharmonic resonance in a shear layer, 6A987
HUSEYIN, K: Stability of gyroelastic beams, 11A544
HUSON, A: Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
HUSOY, JH: Computationally efficient sub-band coding of ECG signals, 7T1409
HUSSAIN, F: New mechanism of small-scale transition in a plane mixing layer: Core dynamics of spanwise vortices, 2A868
- Compressible vortex reconnection, 6A925
- Experiments on subharmonic resonance in a shear layer, 6A987
- Effects of nozzle body on jet noise, 6A235
- Hysteresis in swirling jets, 8A962
- Transitions to chaos in a forced jet: Intermittency, tangent bifurcations, and hysteresis, 9A1159
HUSSAINI, MY: Wavelets: Theory and Applications - ICASE-LaRC Series in Computational Science and Engineering, 10N5
- Low-dissipation and low-dispersion Runge-Kutta schemes for computational acoustics, 8T257
HUSSEIN MALKAWI, AI: Probabilistic seismic hazard zonation and dynamic site periods mapping for major cities in Jordan, 7A1371
HUSSEIN, M: Discrete layer analysis of axisymmetric vibrations of laminated piezoelectric cylinders, 11A135
HUSSEIN, SA: Sylvester's equation: Accuracy and computational stability, 4A363
HUSTON, D: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458
HUSTON, RL: Computational methods for studying impact in multibody systems, 1A220
HUSTY, ML: Algorithm for solving the direct kinematics of general Stewart-Gough platforms, 9A1018
HUTCHINGS, IM: Influence of nozzle length on the divergence of the erodent particle stream in a gas-blast erosion rig, 4A684
- Micro-scale abrasive wear testing of PVD coatings on curved substrates, 10T1002
- Role of particle properties in the erosion of brittle materials, 11A650
- Development of the dry sand-rubber wheel abrasion test, 12A941
HUTCHINS, DA: Measurement and prediction of time domain waveforms in fiber-reinforced laminates, 5A271
- Measurement of elastic constants in composite materials using air-coupled ultrasonic bulk waves, 9A858
HUTCHINS, EL: Development and evaluation of a musculoskeletal model of the elbow joint complex, 9A1435
HUTCHINSON, GL: Seismic energy dissipation in torisionally responding building systems, 8A1343
- Inelastic torsional coupling of building models, 8A1340
- Evaluation of serviceability limit state seismic torsional provisions of Eurocode 8, 9A937
- Seismic torsional provisions: Influence on element energy dissipation, 10A1440
HUTCHINSON, JR: Vibrations of solid cylinders revisited, 5T141
HUTCHINSON, JW: Interface cracking phenomena in constrained metal layers, 12A745
HUTCHINSON, TM: Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316
HUTTER, K: Thermodynamics of a mixture of isotropic materials with constraints, 4A1139
- Experimental and computational study of channelized water waves generated by a porous body, 9A295
- Meso-elastoplastic constitutive equation with application to deformation-induced anisotropy of a polycrystalline aggregate, 9A504
HUTTON, SG: Interactions between an idealized rotating string and stationary constraints, 1A144
HUYER, SA: Unsteady aerodynamics associated with a horizontal-axis wind turbine, 12A1433
HUYGHE, JM: Finite deformation theory of hierarchically arranged porous solids - II: Constitutive behavior, 2A1222
- Finite deformation theory of hierarchically arranged porous solids - I: Balance of mass and momentum, 2A1221
- Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
HUYNH, HT: Accurate upwind methods for the Euler equtaions, 2A890
HWANG , KEHCHIH: Single crystal hardening: Mechanisms and description, 3A467
HWANG, CC: Heating and ignition of combustible dust layers on a hot surface: Influence of layer shrinkage, 11A1271
HWANG, CHANG-JEON: Transparent acoustic source condition applied to the Euler equations, 2T238
HWANG, CJ: Euler solutions for transonic oscillating cascade flows using dynamic triangular meshes, 5A1073
- Solution-adaptive approach for unsteady flow calculations on quadrilateral-triangular meshes, 9T90
HWANG, CL: Thin and deep hole drilling using a fuzzy discrete sliding mode control with a wood-pockering strategy, 6A579
HWANG, GJ: Experimental studies of laminar flow and heat transfer in a one-porous-wall square duct with wall injection, 2A1086
- Investigation of non-Darcian forced convection in an asymmetrically heated sintered porous channel, 3A1073
- Experimental studies and correlations of radially-outward and inward air-flow heat transfer in a rotating square duct, 8A1103
HWANG, GUAN SHYONG: Synthesis of follower motions of camoids using nonparametric B-splines, 8A804
HWANG, HAN-LIN: Tensile bond strength of deformed bars of high-strength concrete, 7A943
HWANG, JENG-LIH: Cupped propeller test and analysis, 5A987
HWANG, JENN-JIANG: Heat transfer in a rectangular channel with perforated turbulence promoters using holographic interferometry measurement, 2A1089
HWANG, JIING-DONG: Stabilization of nonlinear singularly perturbed multiple time-delay systems by dither, 9A408
HWANG, JJ: Modal precession of a rotating hemispherical shell, 11A123
HWANG, JS: Equivalent linear model of lead-rubber seismic isolation bearings, 11A154
- Refined model for base-isolated bridges with bilinear hysteretic bearings, 11A1405
HWANG, KC: Unified energy approach to a class of micromechanical models for microcracked solids, 1A832
- Unified energy approach to a class of micromechanics models for composite materials, 3A508
HWANG, KH: Effect of mass capture on the propagation of transverse waves in rotating beams, 3A176
HWANG, KI-YOUNG: Prediction of thermal stresses during vertical solidification of a pure metal with density change, 10A1337
- Hybrid numerical analysis of heat transfer and thermal stress in a solidifying body using FVM and FEM, 12A1289
HWANG, KS: Mass transfer measurements from a blunt-faced flat plate in a uniform flow, 11T1258
HWANG, LYANG-RUNG: Transient response of an antiplane inclined subsurface crack subjected to dynamic moving loadings, 9A844
HWANG, NHC: Fundamentals of Hydraulic Engineering Systems, Third Edition, 4R23
HWANG, PO-WEN: Compressibility effects and mixing enhancement in turbulent free shear flows, 4A1074
HWANG, S: Deformation of shape memory alloys due to thermo-induced transformation, 9A895
HWANG, SC: Strengthening caused by power law creep deformation of dispersed particles in an elastic matrix, 4A449
HWANG, SHYH-JIANN: Practial estimation of two-way slab deflections, 7A940
- Deflection control of two-way reinforced concrete slabs, 7A931
- Tensile bond strength of deformed bars of high-strength concrete, 7A943
HWANG, SM: Analysis of flow and heat transfer in twin-roll strip casting by FEM, 5A559
HWANG, W: Optimum stacking sequence of composite laminates for maximum strength, 1A359
HWANG, WEN-MIIN: Synthesis of planar five-bar pantograph configurations by a geometric method, 4A865
- Spherical four-bar linkages with symmetrical coupler-curves, 4A855
HWANG, WENG-SING: Three-dimensional fluid flow model for puddle formation in the single-roll rapid solidification process, 4A652
HWANG, WL: Effect of prestress losses on the seismic response of prestressed concrete frames, 10A897
HWANG, WOONBONG: Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, 9A195
HWANG, WS: Flexibility of TLD to high-rise building by simple experiment and comparison, 2A87
HWANG, YEONG-MAW: Analytical approach to asymmetrical hot-sheet rolling considering the effects of the shear stress and internal moment at the roll gap, 3A595
- Analysis of plastic instability during sandwich sheet rolling, 3A607
- Analysis of asymmetrical clad sheet rolling by stream function method, 7A725
HWANG, YM: Analysis of superplastic blow-forming in a circular closed-die, 12A669
HWEI, CHUANG POON: Failure loads of slender reinforced concrete columns, 7A936
HWU, CHYANBIN: Free vibration of delaminated composite sandwich beams, 3A142
- Delamination fracture criteria for composite laminates, 4A727
- Interactions between inclusions and various types of cracks, 8A666
- Punch problems for an anisotropic elastic half-plane, 9A481
HYDE, TH: Predictions of creep failure in aeroengine materials under multi-axial stress states, 7A795
- Effects of adjacent braces on the static strength of a corner YT joint, 9A942
- Static strength of tubular T and Y joints under combined bending and axial loading, 9A947
- Analysis of the impression creep test method using a rectangular indenter for determining the creep properties in welds, 12A507
HYDE, TT: Actuator with built-in viscous damping for isolation and structural control, 6A322
HYDON, PE: Dispersion in oscillatory channel flow with coupled transverse wall motion, 10A1147
HYER, MW: Comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on FE analysis and extended classical lamination theory, 1A553
- Response of unsymmetrical laminates to simple applied forces, 8A510
- Nonlinear prebuckling response of short thin-walled laminated composite cylinders in bending, 11A510
HYLAND, DC: Frequency domain performance bounds for uncertain positive real systems, 8T301
HYMER, T: Aeroprediction code for angles of attack above 30 degrees, 12A1172
HYODO, M: Cyclic strengths of clay and sand by strain rate controlled cyclic triaxial test (Japanese), 4A612
- Effect of the dewatered vertical drain method against soil liquefaction (Japanese), 10A655
HYUN, CHANG-HUN: Axisymmetric elastodynamic infinite elements for multi-layered half-space, 4A250
HYUN, JAE MIN: Mass transfer characteristics for a rotating cup-like cylinder, 1A1303
- Three-dimensional driven-cavity flows with a vertical temperature gradient, 2A1100
- Forced convection from an isolated heat source in a channel with porous medium, 6A1098
- Effect of aspect ratio on mass transfer from a rotating cup, 11T1257
- Solution for spin-up from rest of liquid with a free surface, 12A1045
HYUN, JM: Mass transfer measurements from a blunt-faced flat plate in a uniform flow, 11T1258
HYUN, MT: Simulation of 2D thermosolutal convection in liquid metals induced by horizontal temperature and species gradients, 12A1296

I

IACCARINO, G: Rotating dissipation for accurate shock capture, 11T205
- Efficient computations using upwind biased schemes, 12A41
IACOVIDES, H: Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, 5A1141
- Computational fluid dynamics applied to internal gas-turbine blade cooling: A review, 6A1100
- Computation of flow development through stationary and rotating U-ducts of strong curvature, 8A894
IANNACCI, R: Nonlinear elliptic partial differential equations at resonance: Higher eigenvalues, 1T117
IANNUZZELLI, RJ: Solder joint reliability prediction by the integrated matrix creep method, 12A987
IAROVICI, A: Reduction of the equations system for circular pipe-line shells to a single one integro-differential equation, 11T307
IARVE, EV: Spline variational 3D stress analysis of laminated composite plates with open holes, 9A543
IATRIDIS, JC: Determination of collagen-proteoglycan interactions *in vitro*, 10A1475
IBANEZ, J: Measurements of intrinsic and scattering seismic attenuation in the crust, 3A1310
IBARRA, S: Designing shielded metal arc consumables for underwater wet welding in offshore applications, 5A859
IBAYASHI, K: Evaluation of lifetime risk in reinforced concrete structure (Japanese), 9A915
IBNABDELJALIL, M: Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, 2A424
IBRAGIMOV, KV: Mathematical model of integrated processes of rotary shaping of circular parts, 11A596
IBRAHIM SADIK, M: Simple concept to achieve a rational chip form, 6A577

IBRAHIM, EA: Coincidence of turbulent-nonturbulent interface and hot-cold interface in a plane turbulent wake, 7T1115

IBRAHIM, IM: Effect of frame flexibility on the ride vibration of trucks, 4A206

IBRAHIM, OM: High-power multi-stage Rankine cycles, 5A1121

IBRAHIM, RA: Parametric random excitation of nonlinear coupled oscillators, 4A123
- Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, 5A154
- Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, 5A155
- Nonlinear friction-induced vibration in water-lubricated bearings, 6A849
- Response statistics of ocean structures to nonlinear hydrodynamic loading - Part II: Non-Gaussian ocean waves, 9A956

IBRAHIMBEGOVIC, A: Nonlinear Wilson's brick element for finite elastic deformations of 3D solids, 1A38
- Computational aspects of vector-like parametrization of 3D finite rotations, 4A546
- Finite elastoplastic deformation of membrane shells, 11A513

IBSO, JB: Analytical model for fatigue life prediction based on fracture mechanics and crack closure, 11A639

ICARDI, I: Analysis of thick multilayered anisotropic plates by a higher order plate element, 4T561

ICARDI, U: Evaluation of the influence of geometry and of material properties at free edges and at corners of composite laminates, 1A557
- Large-deflection and stress analysis of multilayered plates with induced-strain actuators, 11A535

ICHA, A: Spectrum of stably stratified turbulent shear flow, 6A994

ICHCHOU, MN: Energy flow analysis of bars and beams: Theoretical formulations, 10A146

ICHIDA, Y: Investigation on the cutting mode and behavior of single crystalline silicon under single point diamond cutting, 3A622

ICHIGO, H: Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), 9A774

ICHIKAWA: Identification of damage parameters for jointed rock mass based on the Kalman filter FEM (Japanese), 4A626

ICHIKAWA, A: H_{∞}-control with output feedback for time-varying discrete systems, 11A282

ICHIKAWA, H: Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), 2T755

ICHIKAWA, M: Analytical expression of induced drag for a finite elliptic wing, 11T1016

ICHIKAWA, S: Life test of ceramic ball bearings by staircase method, 7T476
- Life test of ceramic ball bearings by staircase method (Japanese), 7A1002

ICHIKAWA, Y: Numerical modeling for scattering of waves in 3D cracked material, 5A185
- Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478

ICHIKO, O: Development of core technologies for laser repairing of surface defects of steel billet (Japanese), 2A324

ICHIMIYA, M: Unsteady fluid forces on a blade in a cross-flow turbine, 1A259

ICHIMIYA, R: Reduction of vortex shedding noise in idling circular saws using self-jets of air through saw teeth, 6T254

ICHIMURA, N: Development of an endless multi-wire diamond saw (Japanese), 1T441

ICHINOSE, K: Scanning stress measurement method by laser photoelasticity - 1st report: Stress measurement by synthesized method, 3A721

ICHINOSE, T: Splitting bond failure of columns under seismic action, 3A786

ICHITSUBO, H: Orientation-specific dynamic shape factors for doublets and triplets of spheres in the transition regime, 7A1349
- Penetration of ultrafine particles and ion clusters through wire screens, 9A1346
- Effect of alpha source to aerosol distance on the performance of a diffusion charger, 11A1316

IDA, K: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150

IDA, MP: Thin film rupture, 10A293

IDAN, M: Optimal planar interception with terminal constraints, 4A367
- Robust control design strategy with parameter-dominated uncertainty, 11A299

IDCZAK, H: Modal analysis of the acoustic field radiated from an unflanged cylindrical duct: Theory and measurement, 11A250

IDDAN, D: Analysis of high-speed rolling with inertia and rate effects, 9A696

IDDAN, GJ: Dynamic modal truncation-relaxation, 11A271

IDE, K: Residual strain and local strain distributions in the rabbit atherosclerotic aorta, 1A1451

IDE, M: Focused ion beam machining of diamond chips and probes, 9T729

IDE, S: Source process of the 1995 Kobe earthquake: Determination of spatio-temporal slip distribution by Bayesian modeling, 12A1362

IDE, T: Ultrasonic measurement of bone and bone marrow thicknesses in femur covered with flesh by inserting a hip prosthesis stem, 3A1402
- Multilayer eddy current micro sensor for nondestructive inspection of small diameter pipes (Japanese), 9T874

IDELSOHN, SR: Selected and extended papers from the 4th Pan-American Congress of Applied Mechanics, January, 1995, Buenos Aires, Argentina, 2A4
- Boundary conditions for FE simulations of convective flows with artificial boundaries, 9A1304
- Petrov-Galerkin methods for the transient advective-diffusive equation with sharp gradients, 10A1355

IDEMITSU, T: Fundamental study on bond behavior of various FRP rods in pretensioned PC members, 6A749

IDER, SK: Stability of control forces in redundant multibody systems, 3A332
- Optimum design of flexible multibody systems with dynamic behavior constraints, 10A1028

IDESMAN, AV: Finite element procedure for solving contact thermoelastoplastic problems at large strains, normal, and high pressures, 4A1231

IDIR, M: Experimental study of extinction of nonadiabatic counterflow premixed flames, 10A1360

IDO, O: Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), 2A691

IDREES, M: Specific heat capacities of pure triglycerides by heat-flux differential scanning calorimetry, 6A1063

IDRISS, RL: Evaluation and testing of a fracture critical bridge, 6A768

IDUN, EK: Splice strength of high relative rib area reinforcing bars, 7A958
- Development length criteria for conventional and high relative rib area reinforcing bars, 11A750

IDZIK, M: Short-term levelling analysis of regularized sliver, 10T495

IERUSALIMSKY, KM: Thermomechanical stability of built-up stiffened structures, 10T156

IESAN, D: Theory of bubbly fluids, 2A926
- Existence theorems in the theory of mixtures, 11A432

IFJU, PG: Method for determining critical strain gage size in anisotropic materials with large repeating unit cells, 2A715

IFTIMI, V: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781

IGARASHI, H: Pseudo-dynamic testing using conventional testing devices, 3A1340

IGARASHI, I: Micro machining and silicon dynamic sensors (Japanese), 9T731

IGARASHI, S: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541
- Proposition of an improved differential stereo vision method: Simultaneous measurement of 3D coordinate and inclination of surface, 3T413

IGELAND, A: Vertical dynamic interaction between train and track: Influence of wheel and track imperfections, 4A196

IGLESIAS, PA: Connections between minimum entropy control and mixed H_2/H_{∞} control for time-varying systems, 5T324

IGNACZ, F: Fractal based surface characterization of laser treated polymer foils, 3A642

IGOSHI, M: Disassembly path generation to verify the assemblability of mechanical products, 6A853

IGRA, O: Formation of shock waves in gas-liquid foams, 3A931
- Acceleration of a sphere behind planar shock waves, 6A199
- Experimental and numerical study of the interaction between a planar shock wave and a square cavity, 11A204

IGUCHI, H: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150

IGUSA, T: Response of primary-secondary systems to short-duration, wide-band input, 1A166
- Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load, 4A314

IH, CHE-HANG CHARLES: Redesign of the celestial pointing cone control gains for the Galileo spacecraft, 1A267

IH, J-G: Model for sound propagation in capillary ducts with mean flow, 7A321
- Non-singular boundary integral equation for acoustic problems, 10A380

IH, JEONG-GUON: Reactive characteristics of partial screens for a sound source mounted in an infinite baffle, 1A340

IH, K-D: Numerical analysis of near and far fields scattered by two plates with finite thickness, 10A356

IHARA, K: Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, 8A1035

IHARA, T: Determination of shape-size on real time chatter prediction system, 7T205

IHLENBURG, F: Dispersion analysis and error estimation of Galerkin FEMs for the Helmholtz equation, 4A326
- Generalized FEM for solving the Helmholtz equation in 2D with minimal pollution, 5A289

IIDA, K: Empirical study on services and functions of expressway rest areas in Japan: Towards easy access for travelers with disabilities (Japanese), 1A1473
- Affected layer produced by grit blasting for austenitic stainless steel, 1T720

IIDA, M: Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336

IIDA, T: Automated inspection of printed circuit board patterns referenced to CAD data, 9A872

IIJIMA, T: Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, 5A811

IINO, A: Buckling design of symmetrically laminated plates using lamination parameters, 1A653

IIZUKA, Y: Ultrasonic inspection system for tubular products using real-time digital signal processing, 4A780

IK KIM, YOUNG: Aeroelastic behavior of composite plates subject to damage growth, 7A295

IKAI, A: Recovery stress of TiNi shape memory alloy under constant strain, 1A1293

IKAI, Y: Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), 12A543

IKAWA, K: Hydrogen embrittlement of prestressing steel (Japanese), 9A490

IKAWA, N: Cutting mechanism of superfinishing by fine CBN stone (Japanese), 12A694

IKEDA, K: Numerical identification of secondary buckling phenomena of elastic rectangular plate under pure bending (Japanese), 1A658
- Reliability of structures subject to normally distributed initial imperfections, 8A504
- Consistency of straight-beam approximation of a thin-walled circular beam, 11A501

IKEDA, M: Ductile-regime turning of quartz crystal, 1A722
- Maskless patterning of gold electrical contacts by laser plating in a flowing solution, 1A437
- Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), 5A569
- Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743

IKEDA, S: Evaporative heat transfer at the evaporative section of a grooved heat pipe, 6A1149
- Predicting creep towards high-strength concrete, 9A498
- Stress analysis of transistor structures considering the internal stress of thin films, 10A580

IKEDA, T: Constraint effect of crack due to clad material (Japanese), 9A845

IKEDA, Y: Boundary-type sensitivity analysis scheme based on indirect Trefftz formulation, 5A44
- Tribological study on molecularly thin films using non-equilibrium molecular dynamics, 7T999
- New boundary-type scheme for sensitivity analysis using Trefftz formulation, 11A60

IKEGAMI, K: Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, 12A970

IKEGAMI, M: Formation of turbulent eddies in jet diffusion flames, 11T1274

IKEGAMI, Y: Performance analysis of an OTEC plant and a desalination plant using an integrated hybrid cycle, 11A1431

IKEGAWA, M: Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), 11A752

IKENO, M: Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), 10A920

IKEUCHI, H: Experimental study of the flow in a helical circular tube, 1A1059
- Analysis of motion of body center during human stair gait using force plate, 12A1459

IKOHAGI, T: High-speed observation of ultrahigh-speed submerged water jets, 10A1165

IKUNO, H: Development of simple thermal fatigue test method using low-thermal expansion restraining holders (Japanese), 7A1291

IKUNO, Y: Study on sliding accuracy characteristics of an externally pressurized gas-lubricated guide way: Fundamental sliding accuracy characteristics, 12A1190

IKUSE, Y: Development of new ultrasonic dressing equipment (Japanese), 1A735

IL'GAMOV, MA: Equilibrium of a membrane in contact with a fluid, 10A308
- Numerical simulation of nonlinear interaction between the elastic shell and gas stream, 11A229

IL'ICHEV, A: Conditional stability of solitary waves propagating in elastic rods, 7A218

IL'INSKI, AN: Aero- and gas dynamics of flight vehicles and their engines: A technique of aerodynamic design of surface effect vehicle airfoil, 8A1014

IL'YUSHIN, AA: Planar cross-section law in supersonic aerodynamics and the panel flutter problem, 10T1194

ILERI, A: Yearly simulation of a solar-aided R22-DEGDME absorption heat pump system, 3A1378

ILGAMOV, MA: Buckling and post-buckling behavior of a pipe subjected to internal pressure, 5A530
- Nonlinear oscillations of a gas in a tube, 6A202

ILIADIS, G: Numerical study of the blockage effects on viscous flow past a circular cylinder, 11A881

ILIES, H: Cauchy and characteristic boundary value problems of random rigid-perfectly plastic media, 6A391

ILIEV, SD: Iterative method for the shape of static drops, 4A1009

ILINCA, A: Error estimator and adaptive moving grids for finite volumes schemes, 4A61

ILINCA, F: Adaptive FEM for mixed convection, 3A1053

ILSLEY, DW: Mechanical properties of the human heel pad: A Paradox resolved, 2A1296

ILZHOFER, A: Development of passive microvalves by the FEM, 3A392

IM, HG: Counterflow diffusion flames with unsteady strain rates, 3A1209
- Response of counterflow premixed flames to oscillating strain rates, 10A1370

IM, S: Enriched FE analysis for a delamination crack in a laminated composite strip, 7A860

IM, SEYOUNG: Delamination buckling of a short orthotropic tube under axial compression, 3A555

IM, YONG-TAEK: Finite-element analysis of solidification of aluminum with natural convection, 3A633
- Expert system for multi-stage cold-forging process design with a re-designing algorithm, 6A556

IMADA, H: Theoretical study on effects of convexities placed on the surface of road marking on the visibility (Japanese), 9A1461

IMADA, Y: Effect of humidity on the friction and wear properties of Sn, 5T766

IMADOJEMU, HE: Effective thermal conductivity of a saturated porous medium, 1T1371

IMAE, J: H_{∞} norm computation for LTV systems using nonlinear optimal control algorithms, 8T282

IMAGAWA, H: Investigation on the present situation in life prediction of heat exchanger - Activity report of the working group: Life prediction of heat exchanger (Japanese), 6T779

IMAI, S: Longitudinal and transverse variations of the bed shear stress on the wetted perimeter of a sloped rectangular open channel in a hydraulic jump, 2A849

IMAI, H: Evaluation of uncertainty in form measurement (Japanese), 2T54
- Convergence of attractors for the simplified magnetic Benard equations, 8A80

IMAI, K: Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, 3A13

IMAI, T: Kinetic study and mathematical modeling of biofilm in a methanogenic fluidized bed (Japanese), 6A1224

IMAIDA, S: Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, 3A13

IMAISHI, N: Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, 12A1239

IMAIZUMI, S: Consideration on factor of safety in thickness design of geomembrane used as a liner subjected to deformation (Japanese), 7T702
- Methodology of evaluating a frictional coefficient and a deformation modulus based on geosynthetics pull-out tests (Japanese), 10A666
- Uplift behavior of piles with enlarged base in sand (Japanese), 10A674

IMAM, M: Current concrete strength tests suitable for high strength concrete, 2A409

IMAMURA, F: Tsunamis: 1992-1994 - Their generation, dynamics, and hazard, 3A1345

IMAMURA, M: Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, 9A215

IMAMURA, S: Structure merging as a key operation to assemble parametric models, 7T470
- Centrifuge modeling of shield tunnel construction processes (Japanese), 7A711

IMANAKA, M: Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, 1A755

IMANISHI, T: Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, 6A845

IMANUEL, O: Optimal design of biaxial tests for structural material characterization of flat tissues, 9A1458

IMAOKA, M: Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), 3A1387

IMASATO, K: Observation of light pulses at microfractures of solid and the temperature estimation of the part by spectral data (Japanese), 9A866

IMASE, K: Fundamental analysis of Cycloid Ball Reducer (3rd report): Strength design (Japanese), 7A1022

IMATANI, S: Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, 3A460

IMBERGER, J: Dynamics of turbidity current with reversing buoyancy, 10A1058
- Initial response of a stratified lake to a surface shear stress, 10A1442
IMPEY, MD: Long-wave morphological instabilities in directional solidification, 3A1170
IMPOSIMATO, S: Time dependent mechanical behavior of loose sands, 10A650
IMREGUN, M: Review of aeroelasticity methods with emphasis on turbomachinery applications, 11A230
- Improved single-parameter tip-timing method for turbomachinery blade vibration measurements using optical laser probes, 12A182
- Modified eigenstructure assignment technique for FE model updating, 12A20
IMUTA, S: Computational study of shock wave focusing in a log-spiral duct, 3A210
IN'T HOUT, KJ: Note on unconditional maximum norm contractivity of diagonally split Runge-Kutta methods, 12A47
INABA, H: Cold heat-release characteristics of phase-change emulsion by air-emulsion direct-contact heat exchange method, 8A1214
INABA, K: Statistical fatigue properties of ductile cast irons (Japanese), 3A654
INABA, M: Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), 6A618
- Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379
INABA, T: Fundamental study on strain dispersion function of the grid panel type buried joint (Japanese), 9A879
INADA, Y: High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
- Development of wheel spindle for ultra-high speed surface grinding machine - 1st Report: Studies on ultra-high speed grinding (Japanese), 11A603
INAGAKI, T: Heat transfer and fluid flow of natural convection along a vertical flat plate in the transition region: Experimental wall temperature field, 2A1093
- Surface temperature measurement using infrared radiometer by applying a pseudo-gray-body approximation: Estimation of radiative property for metal surface, 8A1187
- Criterion for turbulent combined forced and natural convection in a vertical flow system, 8T1089
INAMTI, P: Experimental validation of particle model drift theories, 10A945
INAUDI, JA: Time-domain analysis of linear hysteretic damping, 12A209
INCE, NZ: Computational modeling of 3D impinging jets with and without cross-flow using second-moment closure, 2A963
INCE, R: Neural network approximation to the size effect in fracture of cementitious materials, 10A449
INCECIK, A: Hydrodynamic design of moored floating platforms, 6A1010
INCROPERA, FP: Introduction to Heat Transfer, Third Edition, 10N35
- Effect of turbulence on solidification of a binary metal alloy with electromagnetic stirring, 3A1195
- Enhancement of natural convection heat transfer from an array of discrete heat sources, 4A1147
- Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, 4A1193
- Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, 4A1192
- Conjugate natural convection from an array of protruding heat sources, 6A1081
- Conjugate natural convection from an array of discrete heat sources - Part 1: 2D and 3D model validation, 6A1082
- Conjugate natural convection from an array of discrete heat sources - Part 2: A numerical parametric study, 6A1083
- Local jet impingement boiling heat transfer, 7A1236
- Rewetting temperatures and velocity in a quenching experiment, 8A1154
INDELMAN, P: Averaging of unsteady flows in heterogeneous media of stationary conductivity, 9A1351
INDRAWAN, B: Experimental verification of bounded-force control method, 7A1378
INDRI, M: Lyapunov analysis of the approximate motion equations of flexible structures, 12A98
INEICHEN, P: Direct luminous efficacy and atmospheric turbidity: Improving model performance, 1A1425
INGBER, DE: Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, 5A1378
INGEL, RP: Approach for tension instability in smoothed particle hydrodynamics, 1A1031
INGER, GR: Nonequilibrium-dissociated stagnation boundary-layer flow on an arbitrarily catalytic swept wing, 3A988
- Nonequilibrium boundary-layer effects on the aerodynamic heating of hypersonic waverider vehicles, 3A1064
- New similarity solutions for hypersonic boundary layers with applications to inlet flows, 4A1026
- Supersonic shock-turbulent boundary-layer interaction on a roughened surface, 11A948
INGHAM, DB: Conjugate free convection from a horizontal surface in a porous medium, 2A1090
- Stokes flow past two circular cylinders using a BEM, 2A50
- Flow and heat transfer due to a suddenly stopped and cooled plate, 3A1065
- Upstream migration of heat during combined convection in a horizontal parallel plate duct, 4T1161
- Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, 4A1166
- Treatment of singularities in time-dependent problems using the BEM, 5A50
- Free convection from a horizontal moving sheet, 6A1077
- Application of the BEM to inverse heat conduction problems, 7A1240
- Bifurcations of incompressible flow through plane symmetric channel expansions, 9A1147
- Natural convection from a vertical plate with a prescribed surface heat flux in porous media, 9A1372
- Mixed convective conjugate heat transfer from a vertical flat plate, 11A1133
- Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, 11A1153
- Developing combined convection in an eccentric annulus, 12A1218
INMAN, DJ: Smart Structures, Nonlinear Dynamics, and Control, 8R6
- 50th Anniversary of the Design Engineering Division, 1N20
- Methods of preserving symmetry in model updating, 5A113
- Experimentally-validated damage detection theory in smart structures, 10A884
INNOCENTI, C: Analytical-form direct kinematics for the second scheme of a 5-5 general-geometry fully parallel manipulator, 2A295
- Polynomial solution to the position analysis of the 7-link Assur kinematic chain with one quarterly link, 2A827
INNOCENTI, M: Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349
INOKAWA, H: Current status and future challenges in endpoint detection techniques for mechanical planarization process (Japanese), 11T615
INOOKA, H: High-speed observations of highly erosive vortex cavitation using image processing, 5T872
- First integral approach to nonlinear motion analysis of a two-link system, 11A382
INOUE, A: Thickness of the liquid film formed by a growing bubble in a narrow gap between two horizontal plates, 8A1148
INOUE, H: Boundary element analysis of thermoelastic contact problems, 4A1237
- Investigation on the present situation in life prediction of heat exchanger - Activity report of the working group: Life prediction of heat exchanger (Japanese), 6T779
- Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379
- Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Cooperative manipulation by autonomous intelligent robots, 12A461
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
INOUE, J: Impact damper with granular materials for multibody system, 7A211
INOUE, K: Crack growth resistance due to shot peening in carburized gears, 2A672
- Effects of surface treatment on the bending-fatigue strength of carburized spur gears, 9A755
- Active vibration control for flexible structures using a wave-absorbing control method, 12A137
INOUE, O: Shock wave-vortex interaction in a flow over 90-deg sharp corner, 2T187
- Computational study of shock wave focusing in a log-spiral duct, 3A210
- New evolutionary direction operator for genetic algorithms, 3T327
- Numerical simulation of forced wakes around a cylinder, 5A893
INOUE, R: System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, 7A899
INOUE, S: Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), 7A947
INOUE, T: Influence of the intermediate material on the order of stress singularity in three-phase bonded structure, 4A432
- Stress singularity in three-phase bonded structure, 12A501
INOUE, Y: Evaluation of deterioration in concrete by stochastic analysis of acoustic emission activity under uniaxial compression (Japanese), 2A607
- Weakly nonlinear waves and acoustic streaming produced by a vibrating strip flush with a plane wall, 5A258
- Strongly nonlinear waves and streaming in the near field of a circular piston, 12A272
INOWAKI, R: Application of nonlinear mixed integer programming as optimization procedure, 3A850
INUI, M: Robust Boolean set operation of polygons with degenerate intersections based on variable tolerances and topological necessary conditions (Japanese), 11A269
INVERNIZZI, M: Computational acoustics: Noise reduction via diffraction by barriers with different geometries, 12A303
INYANG, HI: Contaminant transport in nonisothermal fractured porous media, 10A1413
INZINNA, LP: Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, 10A1400
INZOLI, F: Numerical analysis of steady flow in aorto-coronary bypass 3D model, 11A1468
IOAKIMIDIS, NI: Computer-aided quantifier elimination in crack problems under constraints for the stress intensity factors, 2A618
- Inequality constraint for the deflection of an elastic beam under a uniform distributed loading, 2A460
- Deciding in elasticity problems by using Sturm's theorem, 3A442
- Beams on tensionless elastic foundation: Approximate quantifier elimination with Chebyshev series, 7A600
- Inequality constraints in rectangular FEs-BEs, 12A55
IOANNIDIS, MB: Static and dynamic axial collapse of fiberglass composite automotive frame rails, 7A579
- Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, 7A558
- Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, 11A679
IOANNIDOU, A: Influence of air pollutants in the ^{7}Be size distribution of atmospheric aerosols, 8A1406
IOI, K: Development of a small actuator with three degrees of rotational freedom - 3rd Report: Design and experiment of a spherical actuator (Japanese), 11A369
IOI, T: Machine parts visual inspection system using fuzzy-neural network (Japanese), 7A477
IOKA, I: Estimation of creep buckling deformation under external pressure at elevated temperature, 10A638
IOKA, S: Thermal residual stresses in bonded dissimilar materials and their singularities, 10A1340
IOLLO, A: Contribution to the optimal shape design of 2D internal flows with embedded shocks, 9T297
ION, C: Study of torsional vibrations in systems with one dof by graphical method, 11A111
IONESCU, IR: Contact problem with slip displacement dependent friction in elastostatics, 9A479
IORDANOFF, I: Dynamic analysis of a thrust bearing-effect of misalignment and load, 1T1145
IOSILEVSKII, G: Asymptotic theory of high-aspect-ratio arched wings in steady incompressible flow, 4A1110
- Center of gravity and minimal lift coefficient limits of a gliding parachute, 5A758
IOUALALEN, M: Two approaches to the problem of instability of short-crested water waves, 4A268
IP, KH: Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, 7A163
IP, W: Cell orientation response to cyclically deformed substrates: Experimental validation of a cell model, 5A1377
IP, WLR: Adaptive and compensation methods in free-form surface assessment, 10A870
IQBAL, M: Numerical simulation of the transient moisture transfer through porous insulation, 6A1191
IRANI, E: Visualization of choked supersonic flow-through engine nacelles, 2T910
IRANI, M: Loading on a vertical cylinder in multidirectional waves, 5A871
IRAWAN, P: Effectiveness of laterally arranged reinforcement on the confinement of core concrete, 2A751
- Verification of 3D constitution model of concrete in line with capacity and ductility of laterally reinforced concrete columns, 2A767
IRBY, SE: Instrumented implant for measuring tibiofemoral forces, 8A1437
IRELAND, B: Flight validation of the computer program CBAS (cable body airborne simulator), 8A1024
IRELAND, PT: Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
IREMONGER, MJ: Ballistic impact of fiber composite armours by fragment-simulating projectiles, 12A570
IRIE, K: Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, 12A1020
IRIKURA, K: Waveform inversion for determining the boundary shape of a basin structure, 3A1281
IRIMICLIUC, N: Optimal control in minimum time of the operating unbalanced rigid rotors, 11A128
IRIZZARY-RIVERA, R: Optimal interface for the Bridgman crystallization process, 8A1116
IRSCHIK, H: Spherical elastic-plastic waves, 1A197
IRVINE JR, TF: Absolute falling tube viscometer, 8A1045
IRVING, AD: Constitutive convolution and graph theoretical representations of thermodynamic processes: Thermal conduction, 3A1098
- Generalized autoregression and the analysis of dynamical processes, 7A109
ISA, H: Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), 4T824
ISAAC, DH: Effect of short carbon fiber reinforcement on fatigue crack growth in PEEK, 12A710
ISAAC, GH: Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, 6A796
ISAAC, KM: Global characteristics and structures of hydrogen-air counterflow diffusion flames, 11A1275
ISAKSSON, A: Influence of enclosed air on vibration modes of a shell structure, 4A176
ISARD, SA: Estimating soil temperatures and frost in the lake effect snowbelt regions, Michigan, USA, 3A579
ISAYAMA, T: Machine parts visual inspection system using fuzzy-neural network (Japanese), 7A477
ISAYEV, OA: Collapse of a boiling water jet, 1A1230
ISEKI, H: Determination of the optimum blank shape when deep drawing nonaxisymmetric cups, using a FEM: Simplified determination of optimum blank shape and limiting drawing ratio by inverse FE procedure, 3A851
ISERLES, A: First Course in the Numerical Analysis of Differential Equations - Cambridge Texts in Applied Mathematics 15, 7N3
ISGRO, V: Euler-based inverse method for turbomachine blades - Part 1: Two-dimensional cascades, 4A1114
ISHAC, MG: Wittenburg's formulation of multibody dynamics equations from a graph-theoretic perspective, 6A84
ISHAI, O: Damage tolerance of thick hybrid composite plate containing a local hemispherical damage, 7A850
ISHAK, ZAM: Failure mode in dry and hygrothermally aged short fiber-reinforced injection-molded polyarylamide composites by acoustic emission, 12A753
ISHIBASHI, A: Increase in life of CBN wheel for gear grinding, 9T714
ISHIBASHI, K: Mass transfer into a liquid film flowing concurrently with gas flow: Correlation of average mass-transfer coefficient, 2A1166
ISHIBASHI, Y: Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, 7A1040
ISHIDA, H: Application of genetic algorithms to an inversion of surface-wave dispersion data, 11A1368
ISHIDA, K: Visualization and analysis of adsorption behavior of alcohols on aqueous alcohol solution surfaces utilizing Brewster angle videomacrography and digital image processing, 12T1206
ISHIDA, M: Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, 7T1341
- CMP planarization: Process, Machine, and consumables (Japanese), 11T613
- Noise reduction characteristics of porous elastic road surfaces, 12A297
- Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295
ISHIDA, T: Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), 7T712
- Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), 7T779
ISHIDA, Y: Development of a wireless communication system for a distributed autonomous robotic system (Japanese), 2A312
- Internal resonances of a cracked rotor: Major critical speed and critical speeds in precritical range, 12A205
ISHIGAKI, H: Trajectory planning of redundant manipulator using genetic algorithm, 7T438
- Analogy between turbulent flows in curved pipes and orthogonally rotating pipes, 7A1103
- Active noise control of turning machine using neural network, 9T372
ISHIGURO, H: Proposal on the formula to evaluate the force due to creep and shrinkage of the pre-stressed concrete structure (Japanese), 2T768
ISHIGURO, R: Flow induced by temperature gradient along wall in rarefied gas container, 11A927
ISHIHARA, A: Numerical study on utilization of melting of phase change material for cooling of a heated surface at a constant rate, 6A1096
ISHIHARA, K: Development of multi-purpose ductile-regime machining system for ceramics and glasses (Japanese), 9A738

ISHIHARA, S: Fatigue-crack-growth-based analysis of two-step corrosion fatigue tests, 5A609
ISHIHARA, T: Singularity formation in 3D motion of a vortex sheet, 4T1064
ISHII, F: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, 3A287
ISHII, H: New formulation of state constraint problems for first-order PDEs, 8T275
- Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, 10A796
- Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, 11A685
ISHII, K: Hydrogen embrittlement of prestressing steel (Japanese), 9A490
- Sensory selection in vehicle detection and avoidance, 11T333
ISHII, M: Analysis of flow instabilities and their role on critical heat flux for two-phase downflow and low pressure systems, 3A1081
- Effects of classified fly ash on improving performance of roller compacted concrete pavements (Japanese), 6A745
- Interfacial wave stability of concurrent two-phase flow in a horizontal channel, 10A1282
ISHII, N: Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, 12A1020
ISHII, T: Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, 2A1002
- Discussion on stability of landslides considering on scatter of strength parameter (Japanese), 4A616
- Transient response technique applied to active magnetic bearing machinery during rotor drop, 10A1016
- Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), 11A642
ISHIKAWA, A: Creep-fatigue damage assessment by subsequent fatigue straining, 11A652
ISHIKAWA, G: Undrained strength of highly organic soil and its suction measured before shear test (Japanese), 4A600
ISHIKAWA, H: Contact mechanics of ultrahigh-molecular-weight polyethylene for artificial knee joint, 3A1400
- Optimum design of transient heat conduction fields using BE inverse analysis, 3A852
- Constitutive equation for inelastic behavior of FRP considering damage: Application to CFRP [± 45°]4 subjected to cyclic loading (Japanese), 4A477
ISHIKAWA, K: Study on vibration cutting characteristics using OD-blade (Japanese), 9A712
ISHIKAWA, M: Robot sensors with parallel processing capabilities, 7A450
ISHIKAWA, N: Study on the dynamic ultimate limit state of steel pipe flexural member (Japanese), 5A126
- Safety check method of steel frame check dam by elastic-plastic reliability analysis (Japanese), 9A906
ISHIKAWA, T: Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391
- Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, 7A831
- Elasto-plastic analysis of steel structures under cyclic loading using minimum residual displacement method (Japanese), 9A214
ISHIKAWA, Y: Time dependent behavior of concrete in early ages and its modeling (Japanese), 2A415
- Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), 4T619
- Friction characteristics and adhesion force under low normal load, 5A781
ISHIMOTO, J: Bubble behavior in magnetic fluid under a nonuniform magnetic field, 1T1092
- Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, 7A1147
ISHIMURA, N: Convergence of attractors for the simplifed magnetic Benard equations, 8A80
ISHIMURA, T: New method for estimating residual stresses in pipe made by surfacing weld, 5A459
ISHINO, K: Design method of rip rap scour protection works for pier in fast tidal current (Japanese), 3A813
ISHITSUKA, N: Stress analysis of transistor structures considering the internal stress of thin films, 10A580
ISHIWATA, M: Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), 7A897
ISHIWATA, S: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
ISHIYAMA, T: Study of ignition process of diesel sprays, 1T1313
ISHIZAWA, A: Mechanism of closed vortex formation in shear flow, 8A883
ISHLINSKII, AY: Special features of problems of the stability and vibrations of rectangular plates, 7A167
ISIDORI, A: Trends in Control: A European Perspective - Communications and Control Eng Series, 2N19
ISIKAWA, A: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741
ISKAKOV, KM: Use of the elementary heat balance technique in temperature field calculations, 11A1204
ISKANDEROVA, ZA: Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, 5A249
ISKE, PL: Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, 2A158
ISKIERKA, S: Analysis of the diffusion-convection problem by the BEM, 3A1199
- Numerical prediction of the hardened zone in laser treatment of carbon steel, 6A1170
ISKOLDSKY, AM: Dynamics of large-scale spatial structures in current-carrying fluids and the electric explosion conductors, 8A997
ISLAM, AKMS: Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, 12T1182
ISLAM, MA: Study of wear of as-cast and heat-treated spheroidal graphite cast iron under dry sliding conditions, 3A828
ISLAM, MQ: Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, 12T1182
ISLAM, MR: Instability in a combined heat and mass transfer problem in porous media, 8A1320
- Solar radiation mapping from satellite image using a low-cost system, 9A1424
ISLAM, MS: Vibration characteristics of a power tiller, 9A220
ISLAM, S: Near-tip dual-length scale mechanics of mode I cracking in laminate brittle matrix composites, 1A817
ISLAND, TC: Instantaneous 3D flow visualization of a supersonic mixing layer, 8A916
ISLER, SK: Acoustic scattering in 3D fluid media, 5A268
ISMAEL, JO: Calculations of wall shear stress in harmonically-oscillated turbulent pipe flow using a low-Reynolds-number k-ε, 9A1186
ISMAEL, NF: Loading tests on circular and ring plates in very dense cemented sands, 9A677
ISMAIL, AA: Finite element analysis of stresses due to pitting of steel specimens under different cyclic bending stresses, 5A19
ISMAIL, AI: Limiting case for the motion of a rigid body about a fixed point in the Newtonian force field, 5A238
ISMAIL, F: Reconstruction of a mass-spring system from spectral data II: Experiment, 1A844
- Five-axis milling of spherical surfaces, 4A637
ISMAIL, HS: Feature-based design of progressive press tools, 5A564
ISMAIL, IM: Cooling of water flowing through a night sky radiator, 3A1135
ISMAIL, KAR: Frost formation around a vertical cylinder in a wet air stream, 4A1185
- Steady-state model for heat pipes of circular or rectangular cross-sections, 12A1263
ISMAIL, M: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669
ISMAILOV, M: Measurement of instantaneous flow rates in periodically operating injection systems, 7A1191
ISMAR, H: Modeling of the micromechanical behavior of unidirectional fiber-reinforced ceramics by the example of SiC-SiC, 5A478
- Case studies on the elastic-plastic creep in the metallic matrix of fiber-reinforced composite materials, 8A451
ISMET UGURSAL, V: Thermodynamic simulation and evaluation of a steam CHP plant using ASPEN plus, 6A1062
ISO, Y: Orientation in simple shear flow of semi-dilute fiber suspensions - 1: Weakly elastic fluids, 8A865
- Orientation in simple shear flow of semi-dilute fiber suspensions - 2: Highly-elastic fluids, 8A866
ISOBE, D: Finite element analysis of quasi-static and dynamic collapse behaviors of framed structures by the adaptively shifted integration technique, 5A730
ISOBE, H: Development of piezoelectric XYT positioning device using impulsive force (Japanese), 11A358
ISOBE, T: Free boundary value problem of nematic liquid crystals with variable degree of orientation, 4T901
ISOMURA, S: Parallel learning in control systems: Derivation of multiple eigenvalue filter, 12A336
- Stability of parallel learning control systems, 12A338
ISON, K: Time-dependent behavior of a force-sensitive resistor plantar pressure measurement insole, 12A1481
ISONO, M: Effect of valve lift and disk surface on two-phase critical flow at hot water relief valve, 8A930
ISPOLOV, YG: Skateboard dynamics, 12A92
ISRAELSSON, UE: Heat capacity of confined helium very near the lambda point, 7A302
ISSAC, JC: Sensitivity of flutter response of a wing to shape and modal parameters, 3T225
ISSAC, KM: Cone-derived waverider flowfield simulation including turbulence and off-design conditions, 10A1093
ISSAC, NT: Liquefaction analysis of saturated reinforced granular soils, 1A693
ISSER, A: New model of rotor dynamics during pitch and roll of a hovering helicopter, 1A1134
- Model of the unsteady aerodynamics of a hovering helicopter rotor that includes variations of the wake geometry, 1A1133
ISUPOV, LP: Equations of plane deformation for a plastic transversally-isotropic medium, 10T554
ITABASHI, K: Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), 4A628
- Suggestion for the comparison methods of an amount of the particle breakage by the in-situ exposure and laboratory slaking tests of a soft rock (Japanese), 10T696
ITABASHI, M: Dynamic tensile strength of composite laminate joints fastened mechanically, 7A567
ITAGAKI, M: Higher order 3D fundamental solutions to the Helmholtz and the modified Helmholtz equations, 3A301
ITAMI, M: Focused ion beam machining of diamond chips and probes, 9T729
ITANI, AM: Seismic analysis and design of modern steel highway connectors, 11A1407
ITAO, K: Study on vibrational damping of microcantilevers (Japanese), 12A140
ITO , K: Development of gravel drain system as a countermeasure for soil liquefaction (Japanese), 4T605
ITO, K: Optimal sizing of a heat pump-thermal storage system based on the linear programming method, 3A1164
- Visualization of formaldehyde distribution above platinum plate catalyst by using LIF method, 8A1046
- Evaluation of fatigue damage in steels using laser speckle sensor: Change of speckle pattern by fatigue (Japanese), 10A855
ITO, KAZUFMI: Augmented Lagrangian-SQP methods for nonlinear optimal control problems of tracking type, 10T410
ITO, M: Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
- Static behaviors of long-span cable-stayed bridge (Japanese), 11A781
- General tolerancing in design object modeling (Japanese), 12A836
ITO, N: Studies on connecting structure between steel shell and steel reinforced concrete (Japanese), 9A924
ITO, S: Reliability of aircraft structures under non-periodic inspection: A Bayesian approach, 8A602
- Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, 9A1253
ITO, T: Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, 8A877
ITOH, A: Friction and tool wear in nano-scale machining: A molecular dynamics approach, 3A823
ITOH, H: Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, 6A119
- Measurement of forces acting on 4WD-4WS tractor tires during steady-state circular turning in a rice field, 10A684
ITOH, K: Ohmic scaling based on current diffusive ballooning mode, 7A1146
- Entropy production and inward heat pinch of plasma, 8A998
- Safety check method of steel frame check dam by elastic-plastic reliability analysis (Japanese), 9A906
- Circulating power of steady state tokamaks, 9A1202
ITOH, M: Optimal design by genetic algorithm for maximum fundamental frequency of laminated shallow shells, 12A173
ITOH, N: Development of spiral and wavy vortices in circular Couette flow, 5A958
- Simple cases of the streamline-curvature instability in 3D boundary layers, 12A1142
ITOH, R: Characterization of carbon particulates in diffusion flames, 7T1314
ITOH, S: Loadability of bolt-nut assemblies: Determination of critical nut height by staircase method, 9A1031
ITOH, S-I: Ohmic scaling based on current diffusive ballooning mode, 7A1146
- Entropy production and inward heat pinch of plasma, 8A998
- Circulating power of steady state tokamaks, 9A1202
ITOH, T: Minimum detectable force gradients of piezoelectric microcantilever, 3T394
- Nonproportional low cycle fatigue criterion for type 304 stainless steel, 5A597
- Natural convection suppression by azimuthal partitions in a horizontal porous annulus, 6A1099
- Piezoelectric force for scanning force microscopy (SFM) (Japanese), 9T443
ITOH, Y: Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), 1A1389
- Pseudo-dynamic tests of concrete filled steel columns with prototype details (Japanese), 5A513
- Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), 11A569
ITOU, S: Dynamic stresses around two cracks placed symmetrically to a large crack, 10A815
ITSKOVITS, MA: Generalization of the Achenbach-Chao model for waves in nonlinear hereditary media, 10A251
- Increase of the simple wave maximum amplitude in active media, 10A250
IUDICELLO, F: Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
IURA, M: Ultimate strength of stiffened plates subjected to biaxial forces (Japanese), 11A524
IUSO, G: Turbulent boundary layer manipulation by outer-layer devices, 2A984
IVAKH, AF: Commercial hazardous liquid waste disposers using thermojet afterburners, 6A1300
IVANSHIN, NA: Solution of problems of the theory of elasticity for a plane with a doubly symmetric two-cusp cut, 4A442
IVANIK, EG: Heat conditions in friction braking, 10A966
IVANIK, YG: Thermal-stress state of heat-sensitive ceramic tubular systems in the case of convective heat exchange, 1A1279
IVANITSKA, GS: Determination of stress concentrator opening displacement, 7A819
IVANITSKIY, GK: Heat transfer and hydrodynamics in an ensemble of bubbles on discharge of boiling liquid, 1A1232
IVANO, O: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753
IVANOV, AP: Problem of the center of percussion, 1A213
- Multiple impact, 12A233
IVANOV, IV: Heat transfer in a circulating fluidized bed with secondary air injection, 5A1302
IVANOV, KP: Combined distributed and lumped parameters model for transient flow analysis in complex pipe networks, 12A251
IVANOV, MN: Methods of continuous control of irregularities and surface defects in chemical threads and yarns, 6T592
IVANOV, NI: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
- Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209
IVANOV, TP: Thermoelastic surface waves of an assigned wavelength, 12A1284
IVANOV, VA: Refined dynamic equations for multi-layer shells with transversely soft fillers, 10A187
- Study of the GTE real cycle efficiency with one- and two-staged heat input at equality of their effective cycles, 11A1307
IVANOV, YE: Structural optimization of vibroinsulated system for ground pendulum gyrocompass with consideration of dynamics of its sensitive element, 9A147
IVANOV, YL: Analysis of the forming of parts from sheet blanks with electrocontact heating, 9A691
IVANOVA, EA: Modified energy functional for the Reissner theory of plates, 5A517
- Approximate Hamilton functionals for the problems of low-frequency and high-frequency free vibrations of the Reissner plate, 7T640
IVANOVA, NI: Problem on movement of nonlinear viscous medium in axisymmetrical canals, 7A1059
IVANOVA, VF: Bang-bang control of the angular motion of a rigid body, 6A74
IVANOVA, YI: Solution of 2D problems of statics of shallow shells on the basis of spline-approximations (Russian), 7A622
IVANSSON, S: Source function to generate an individual mode in a fluid-solid medium, 3A213
IVANYI, M: Steel Plated Structures, 6N27
IVANYK, EG: Stochastic contact model of rough frictional heating surfaces in mixed friction conditions, 3A821
IVENS, J: Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, 1A816
- Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, 1A815
IVERS, DJ: Antidynamo theorem for partly symmetric flows, 3T976
- Antidynamo theorem for spherically symmetric generation-diffusion conditions, 3T977
IVERSON, SC: Static analyses of the triangular running skyline system: A 3D movable logging cable system, 12A582
IVES, KJ: Inside story of water-treatment processes, 6A1302
IVES, LK: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748
IVEY, GN: Convection in a long box driven by heating and cooling on the horizontal boundaries, 9A1072
- Dynamics of turbidity current with reversing buoyancy, 10A1058

IVEY, M: Design and test of a polar nephelometer, 2A1206
IVEY, PC: Measurement of tip-clearance flow in a multistage, axial flow compressor, 11A1083
IVEZIC, Z: Investigation of dependent-independent scattering regimes using a discrete dipole approximation, 5A1172
IVKO, TV: Use of stimulated boundary gas release for determination of the adhesion of thin films by the blister test, 3A869
IVLEV, DD: Static and kinematic relations of ideal plasticity under piecewise linear yield conditions, 6A396
- Linearized equations for kinematically-determinate problems, 10T534
IVLEV, VI: Two-position thermal valve gear, 12T419
IVLYUTIN , AI: Thermal and hydraulic characteristics of microchannel porous structures, 10A1270
IWABE, H: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741
IWAHASHI, Y: Profile measurement with no standard: Verification experiment for profile measurement along a circle (Japanese), 7A484
IWAI, SATOSHI: Very low cycle failure process of steel angle members, 7A929
IWAI, Z: Simplified adaptive model output following control for plants with unmodeled dynamics, 11T300
IWAKUMA, T: Consistency of straight-beam approximation of a thin-walled circular beam, 11A501
IWAMOTO, K: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
IWAMOTO, M: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, 3A287
- Effects of matrix resin and fiber content on behavior of fatigue crack propagation in continuous-fiber-mat reinforced CP-resin composites (Japanese), 12A713
IWAMOTO, T: Constitutive modeling of TRIP steel and its application to the improvement of mechanical properties, 3A466
IWANAGA, S: Development of simple thermal fatigue test method using low-thermal expansion restraining holders (Japanese), 7A1291
IWANSKI, KP: F-15 forebody vortex flow control using jet nozzle blowing, 11A1029
IWASA, M: Evaporative heat transfer at the evaporative section of a grooved heat pipe, 6A1149
IWASA, Y: Thermal activation in boundary lubricated friction, 12A896
IWASAKI, A: Visualization of solidification process in kinetics control system with interferometry, 1A1263
IWASAKI, H: Superplasticity and cavitation in light metal matrix composites (Japanese), 9T535
IWASAKI, S: Polychromatic light interferometer for high-accuracy positioning, 5A386
IWASAKI, T: XY-centering algorithm for the dual LMI problem: A new approach to fixed-order control design, 5T328
IWASHITA, K: Distinct element method with the effect of moment transfer at the contact points (Japanese), 7A713
IWATA, F: Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, 7A874
IWATA, H: System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, 7A899
- Relationship between tribological performance of liquid crystals and their molecular structure, 8T788
IWATA, K: New trends in manufacturing systems (Japanese), 7T481
- Generation of tool paths for a die sinking based on "skewed cube modeler": Application to stamping dies, 7A732
- Profile measurement with no standard: Verification experiment for profile measurement along a circle (Japanese), 7A484
- Profile measurement using a liquid crystal projector: Measurements of surface with locally different reflectivity, 9T875
- Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486
IWATA, M: Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), 4A628
- Positioning system for mobile robot using LED marks (Japanese), 5A362
- Suggestion for the comparison methods of an amount of the particle breakage by the in-situ exposure and laboratory slaking tests of a soft rock (Japanese), 10T696
IWATA, T: Waveform inversion for determining the boundary shape of a basin structure, 3A1281
IWATSU, R: Three-dimensional driven-cavity flows with a vertical temperature gradient, 2A1100
IWATSUBO, T: Identification of acoustic-vibratory system by acoustic measurement, 6A272
IWATSUKI, N: Measurement of in-plane vibration by using an improved laser speckle interferometer with the double-aperture method, 3A743
- Vibration analysis of elastic manipulators with the adjacent link joint method, 9A457
IYENGAR, N: Physical aging behavior of high-performance composites, 3A685
IYENGAR, NGR: Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, 8A485
- C^0 element for the free vibration analysis of laminated composite plates, 10A28
IYENGAR, RN: Conditional linearization in nonlinear random vibration, 8A97
- Nonlinear dynamics of a rigid block on a rigid base, 9A683
IYER, A: Tribological properties of cobalt-partially stabilized zirconia (PSZ) composites in dry sliding conditions, 4A845
IYER, PK: Nonlinear FE analysis of reinforced concrete two-pile caps, 4A9
IYER, V: Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, 4A1025
IZBICKI, J-L: Modal resonances of the Franz waves, 9A365
IZBICKI, JL: Generalized Debye series expansion: Treatment of the concentric and nonconcentric cylindrical fluid-fluid interfaces, 5A233
IZRAILOVICH, MY: Control over periodic modes of parametrically excited harmonically linearizable mechanical systems, 3A334
- Estimation of vibration intensity of mechanical systems subjected to disturbances of finite duration, 10A75
IZU, P: Structure and rheology of wormlike micelles, 10A1048
IZUMI, N: Incipient channels formed at the downstream end of plateaux (Japanese), 3A879
IZUMO, S: Control of endothelial cell gene expression by flow, 5A1381
IZUTANI, Y: Predominant direction of strong motion S-waves and its spatial variation at Chiba array site (Japanese), 9A1383
IZZO, L: Constant false-alarm rate array detection of radom signals in spherically invariant noise, 1A345

J

JABBARI, F: H_{∞} control for seismic-excited build with acceleration feedback, 1A1388
- Experimental verification of H_{∞} and sliding mode control for seismically excited buildings, 6A1281
- Active truss element and control law for vibration suppression, 7A133
JABBARI, MY: Influence of secondary flows near the endwall and boundary layer disturbance on convective transport from a turbine blade, 5A1142
- Film cooling of the gas turbine endwall by discrete-hole injection, 11A1040
JABERI, FA: Non-Gaussian scalar statistics in homogeneous turbulence, 11A989
JACH, K: Analysis of initiation of detonation process in a system comprising an explosively loaded elastic partition, 6A225
JACKA, M: Deep-water internal solitary waves, 6A194
JACKIEWICZ, J: Fatigue damage modeling of elastic-plastic materials, 3A710
JACKIEWICZ, Z: General class of two-step Runge-Kutta methods for ordinary differential equations, 2A37
- Performance of preconditioned waveform relaxation techniques for pseudospectral methods, 7A1250
- Acceleration of convergence of waveform relaxation iterations for second order linear system, 10A65
JACKOWSKI, A: Investigations of barrel bore wearing mechanism, 1A937
JACKOWSKI, T: Use of microfibers for the manufacture of fine yarns using rotor and ring spinning machines, 6T593
- Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, 6A178
- Assessment of the dynamic tension in open end spinning and parameters of yarns, 6A177
JACKSON, JD: Remarks on Osborne Reynolds' "The submechanics of the universe", 9A13
JACKSON, K: Evaluation of the energy absorption of laminated composite plates, 2A473
JACKSON, PS: Lift and drag distributions of yacht sails using wake surveys, 12A1164
JACKSON, R: Instabilities and the formation of bubbles in fluidized beds, 4A1313
- Stability of bounded rapid shear flows of a granular material, 8A1300
JACKSON, T: Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, 7A1303
JACKSON, TL: Spatial evolution of centrifugal instabilities within curved incompressible mixing layers, 11A988
JACOB, BP: Portable FORTRAN programming tools in the development of a structural analysis program, 2A777
JACOB, KH: Comparison and test of various site-response estimation techniques, including three that are not reference-site dependent, 2A1240
JACOB, PN: Comparison of the work of adhesion obtained from wetting and vapor adsorption measurements, 8A853
JACOBI, AM: Local convective behavior and fin efficiency in shallow banks of in-line and staggered, annularly finned tubes, 11A1100
JACOBS, B: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
JACOBS, JH: Reduction of vertical tail buffet response using active control, 11A1030
JACOBS, JW: Nonlinear growth of the shock-accelerated instability of a thin fluid layer, 1A240
JACOBS, MMJ: Crack growth mechanism in asphaltic mixes, 7A774
JACOBS, PA: Modeling mass entrainment in a quasi-1D shock tube code, 11T1085
JACOBS, R: Mechanical output from individual muscles during explosive leg extensions: The role of biarticular muscles, 8A1417
JACOBSON, JD: Integrated force arrays: Theory and modeling of static operation, 5A350
JACOBSON, JS: Above-knee prosthesis with a system of energy recovery: A technical note, 6A1370
JACOBSON, MD: Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
JACOBSON, MJ: Low-frequency sound propagation modeling over a locally reacting boundary with the parabolic approximation, 1A346
JACOBY, M: Elasticity of partially saturated frozen sand, 6A536
JACQUES, RN: Frequency domain structural system identification by observability range space extraction, 12A326
JACQUET-RICHARDET, G: Frequencies and modes of rotating flexible bladed disc-shaft assemblies: A global cyclic symmetry approach, 10A231
- Dynamic modeling of a composite plate: A mixed numerical and experimental approach, 11A516
JADOT, R: Adsorption of propane, propylene, and propadiene on activated carbon, 8A1372
JAEGGI, MNR: Experiments on motion of sediment mixtures in a tumbling mill to study fluvial abrasion, 7T1048
JAEKEL, U: Considerations about the effective macrodispersion coefficient, 11A1269
JAFFRE, J: Flux calculation at the interface between two rock types for two-phase flow in porous media, 5A1299
JAFFRIN, MY: Biological Flows, 9N32
JAFRI, MS: Influence of fiber content and impactor parameters on transverse impact response of uniaxially reinforced composite plates, 4A498
JAGANNATHA RAO, JR: Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints, 12A807
JAGANNATHAN, S: Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, 11A355
JAGDALE, SS: Dynamic model for end milling using single point cutting theory, 11A592
JAGER, J: Axisymmetric bodies of equal material in contact under torsion or shift, 2A371
- Kalker's method applied to some improper integrals in fracture mechanics, 10A829
JAGODA, JI: Mixing by resonant acoustic driving in a closed chamber, 8A1266
JAHANMIR, S: Transitions in the mechanism of material removal in abrasive wear of alumina, 10A975
JAHN, RG: Microinstabilities in a 10-kilowatt self-field magnetoplasmadynamic thruster, 8A1294
JAHNIGEN, DW: Measures of parapinal muscle performance do not predict initial trunk kinematics after tripping, 10A1472
JAIN , VK: Study of the EP activity of water-soluble inorganic metallic salts for aqueous cutting fluids, 12A912
JAIN, D: Method of collocation by derivatives in the study of axisymmeric vibrations of circular plates, 2A104
JAIN, LK: Determination of Mode II delamination toughness of stitched laminated composites, 6A660
- Analysis of adhesive bonded composite lap joints with transverse stitching, 12A556
JAIN, M: Hardening laws, surface roughness, and biaxial tensile limit strains of sheet aluminum alloys, 4A460
JAIN, MK: High accuracy difference schemes for the system of two space nonlinear parabolic differential equations with mixed derivatives and variable coefficients, 12A44
JAIN, S: Decentralized control of large-scale power systems with unknown interconnections, 8A276
JAIN, SANDEEP: Neural network design with genetic learning for control of a single link flexible manipulator, 9A462
JAIN, SK: Method of collocation by derivatives in the study of axisymmeric vibrations of circular plates, 2A104
- Technique for sound velocity measurement in liquids using cavity resonance, 3A261
- Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, 12A281
JAISWAL, BS: Effects of mass transfer on transient free convection flow past an infinite vertical isothermal plate, 2A1091
JAKEMAN, E: Polarization characteristics of non-Gaussian scattering by small particles, 3A1127
JAKIELA, MJ: Genetic algorithm-based structural topology design with compliance and topology simplification considerations, 8A833
JAKOBSON, L: Refined version of the finite differences method in the theory of elasticity, 2A406
JAKOBY, R: Experimental and numerical study of orifice discharge coefficients in high-speed rotating disks, 11A894
JAKSIC, D: Axial unwinding of yarn from a weft bobbin wound parallel to a disc tube, 6T111
JAKUBIK, W: Optimal conditions for the generation system of a saw gas sensor, 9A348
JAKUS, K: R-curve and subcritical crack growth behavior at elevated temperatures in coarse grain alumina, 11A627
JALAL, AM: Decentralized model for adaptive multimachine power system stabilizers design, 11A79
JALALZADEH-AZA, A: Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, 12A1271
JALALZADEH-AZAR, AA: Heat transfer in a high-temperature packed bed thermal energy storage system: Roles of radiation and intraparticle conduction, 8A1216
JALURIA, Y: Effects of streamwise convergence in radius on the laminar forced convection in axisymmetric ducts, 1A1176
- Computation of turbulent flow in mixed convection in a cavity with a localized heat source, 3A1056
- Flow and heat transfer due to a buoyant ceiling jet turning downward at a corner, 8A1080
- Effects of variable properties and viscous dissipation during optical fiber drawing, 11A1097
JAMASRI: Characterization of mixed-mode energy release rates in orthotropic materials, 8A637
JAMBRICH, M: Fiber properties with changed cross-sectional geometry, 6T458
- Fibers from polypropylene-polyamide 6 blend, 6A459
JAMBUNATHAN, K: Evaluating convective heat transfer coefficients using neural networks, 11A1160
JAMES III, GH: Natural excitation technique (NExT) for modal parameter extraction from operating structures, 4A146
JAMES, CA: Application of uncertainty analysis to cross-flow heat exchanger performance predictions, 7A1262
- Asymmetric systematic uncertainties in determination of experimental uncertainty, 12A343
JAMES, D: Bandwidth limitation effects on low-frequency impulse noise prediction and assessment, 12A302
JAMES, DL: Thermal analysis of continuous filament-wound composites, 8A1229
JAMES, EH: Radiative heat transfer calculations in 3D complex geometries, 8T1176
JAMES, KD: Full-scale wind-tunnel studies of F/A-18 tail buffet, 11A1026
JAMES, KL: Rheometry and detection of apparent wall slip for Poiseuille flow of polymer solutions and particulate dispersions by nuclear magnetic resonance velocimetry, 11A863
JAMES, LA: Effect of water flow rate upon the environmentally assisted cracking response of a low-alloy steel, 5A588
JAMES, MN: Variable amplitude loading of small fatigue cracks in 6261-T6 aluminum alloy, 10A735
JAMES, PP: Study of the kinetic energy impulse response as an indicator of the strength of coupling between SEA subsystems, 8A100
JAMES, PW: Numerical and experimental studies of annular flume flow, 9A1077
JAMES, RW: Antidynamo theorem for spherically symmetric generation-diffusion conditions, 3T977
- Cold generation systems: A theoretical approach, 4A1225
JAMESON, A: Analysis and design of numerical schemes for gas dynamics - 2: Artificial diffusion and discrete shock structure, 9T301
JAMESON, LM: Wavelets: Theory and Applications - ICASE-LaRC Series in Computational Science and Engineering, 10N5
JAMIALAHMADI, M: Pool boiling heat transfer coefficients for binary mixtures of acetone, isopropanol, and water, 1A1228
JAMIOLKOWSKI, M: Anisotropy of small strain stiffness in Ticino sand, 9A659
JAMROZY, Z: Properties of steel fiber reinforced concrete with steel filings, 3A800
- Properties of steel fiber reinforced concrete with steel filings, 9A922
JAMSHIDI, M: Parallel and redundant robots, 2A304
JANA, RN: Hall effects on hydromagnetic flow past an eccentrically rotating porous disk in a rotating fluid, 11A1008
JANA, SC: Apparent wall slip velocity coefficients in concentrated suspensions of noncolloidal particles, 4A895
JANDACKA, J: Pressure control by proportional pressure valve (Polish), 11A801

JANESCHITZ-KRIEGL, H: Development of oblong particles as precursors for polymer crystallization from shear flow: Origin of the so-called fine grained layers, 10A1046
JANG , HEUI-SUK: Calculation of stress intensity factors by the surface integral method, 8A618
JANG, CHANG DOO: Study on the optimum structural design of surface effect ships, 6A726
JANG, DONG YOUNG: Study of the correlation between surface roughness and cutting vibrations to develop an on-line roughness measuring technique in hard turning, 7A746
JANG, DY: Surface residual stresses in machined austenitic stainless steel, 12A693
JANG, HI: Thermal stresses in a multilayered anisotropic medium with interface thermal resistance, 5T1187
JANG, IN-SUNG: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
- Formation process of a vortex ring by an exploding wire in water, 8A913
- Impact of a vortex ring on a wall in high Reynolds number region, 10A1066
JANG, INSIK: Automatic time step control algorithms for structural dynamics, 4A226
JANG, J: Wing performance in moderate rain, 2A1026
JANG, JIIN-YUH: Influence of surface mass flux on vortex instability of a horizontal mixed convection flow in a saturated porous medium, 2A1106
- Numerical and experimental studies of 3D plate-fin and tube heat exchangers, 12A1259
JANG, JING-JONG: Analysis of concrete masonry beams, 3A771
JANG, JY: Heat transfer and friction characteristics of convex-louver fin-and-tube heat exchangers, 12A1258
JANG, RH: Simulation of turbulent burning velocities using aqueous autocatalytic reactions in a near-homogeneous turbulence, 9A1317
JANG, SHAO-HERNG: Ultra-precision machining by the hydrodynamic polishing process, 4A643
JANGID, RS: Performance of base isolation systems for asymmetric building subject to random excitation, 2A1244
- Optimum damping in a nonlinear base isolation system, 7A216
- Dynamic characteristics of structures with multiple tuned mass dampers, 8A758
- Seismic response of an asymmetric base isolated structure, 11A1408
JANICEK, P: Computational modeling of stress at conical contact with ultra fine teeth (Polish), 11A816
JANKIEWICZ, Z: Apparatus for measuring the energy of pulse radiation of a laser, 9A860
JANKOVIC , I: Spatial and temporal analysis of groundwater recharge with application to sampling design, 8T1405
JANKOVIC, S: General method for a mean square estimation of nonlinear oscillator amplitude subjected to random excitations, 1A96
JANKOVSKY, RS: Structurally compliant rocket engine combustion chamber - Experimental and analytical validation, 1A1345
JANKOWSKI, J: Results of induction study within the Pomeranian segment of the Teisseyre-Tornquist tectonic zone, 6T1261
JANKOWSKI, KP: Constraint formulation for invariant hybrid position-force control of robots, 12A451
JANOVIC, P: Axial vibrations of the camshaft, 1A182
JANSEN, BH: Natural net-based monitoring of steel beams, 1A864
JANSEN, E: Thermal conductivity measurements on thin films based on micromechanical devices, 10T472
JANSEN, H: Survey on the reactive ion etching of silicon in microtechnology, 10T723
JANSONS, KM: Probability and dispersion theory, 3A1194
- Mechanism for slip between a liquid and a random surface with trapped gas due to a temperature gradient, 10A1069
- General drift decomposition for diffusion with advection, 12A1293
JANSSEN, B: In vitro laxity-testers for knee joints of mice, 10T1465
JANSSEN, H: Dependence of heat transfer coefficients on the wall temperature shape and consequences for the calculation of overall heat transfer coefficients for heat exchangers (German), 8A1194
JANSSEN, J: Multigrid waveform relaxation on spatial FE meshes: The continuous-time case, 10A19
JANSSEN, JD: Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
JANSSEN, M: Reproducible time-of-flight measurements with a piezoelectric transducer for acoustoelastic stress evaluation, 2A156
- Ultrasonic stress measurements based on the generalized acoustic ratio technique, 6A697
JANSSEN, RBF: Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, 7A890
JANSSEN, RJA: First instability mechanism in differentially heated cavities with conducting horizontal walls, 3A1050
JANSSENS, H: Evaluation of electrical resistivity maps for ancient masonry, 10A866
JANSSON, P-A: Acoustic scattering from a rough circular disk, 7A311
JANSSON, S: Effect of fiber architecture on the mechanical properties of carbon-carbon fiber composites, 6A422
- Ultimate tensile strength of composites exhibiting fiber fragmentation, 9A825
JANUS, JM: Use of a wake-integral method for computational drag, 6T1018
- Computational analysis of a wingtip-mounted pusher turboprop, 9T1223
JANUSZKA, TF: Bond and force transfer of composite material plates bonded to concrete, 9A591
JAQUES, MWS: Exploiting inherent parallelism in nonlinear FE analysis, 4A30
JARA-ALMONTE, J: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
JARAMILLO, A: Three-dimensional joint elements applied to concrete-faced dams, 2A780
JARAMILLO, PT: Multipoint approach for aerodynamic modeling in complex flowfields, 5A1009
- Validation of a multipoint approach for modeling spin aerodynamics, 5T1021
JARDIN, MR: Feedback-controlled gas mixing system for the ram accelerator, 4A385
JARNY, Y: Inverse analysis to estimate linearly temperature dependent thermal conductivity components and heat capacity of an orthotropic medium, 1A1255
- Determination of temperature variable properties of composite materials: Methodology and experimental results, 10A582
JAROUX, B: Measurement of turbine blade-tip rotordynamic excitation forces, 5A1058
JARRAH, MA: Magnetohydrodynamic mixed convection from a vertical plate embedded in a porous medium, 4A1171
- Prediction of unsteady aerodynamic forces on maneuvering delta wings, 5A1010
- Mixed convection from a vertical cylinder embedded in a porous medium: Non-Darcy model, 7A1229
JARRIN, J: Optimization of the extrusion process for glass-fiber-reinforced tubes, 2A535
JARVINE, AK: Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, 1A1416
JARVIS, GT: Effects of curvature, aspect ratio and plan form in 2D and 3D spherical models of thermal convection, 3T1036
JARVIS, JC: Novel video technique for visualizing flow structures in cardiovascular models, 6A1359
- Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
JARVIS, RA: Solidification of a binary alloy of variable viscosity from a vertical boundary, 4A1194
JARZA, A: Vortex shedding from circular cylinder in oscillatory incident flow, 10A1212
JARZEBOWSKI, A: Energetically most efficient trajectories for the heavy machine shoving process, 1A706
JASIENSKI, Z: Propagation of an effective shear stress as solitary wave and possibility of non-crystallographic slip in polycrystals, 1A517
JASINEVICIUS, RG: Model of brittle materials single point machining with high removal rates, 10A713
JASINSKI, J: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704
JASPER, DW: Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, 9A1233
JASSOWSKI, DM: Test experience, 490-N high-performance [321-s specific impulse] engine, 2A1201
JATEGAONKAR, RV: Evolution of flight vehicle system identification, 7A981
- Identification of lateral-directional behavior in stall from flight data, 11T1022
JATHO, M: Acoustic trachea of Tettigoniids as an exponential horn: Theoretical calculations and bioacoustical measurements, 3A1406
JAUME, S: Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, 6A1228
JAUNKY, N: Buckling analysis of general triangular anisotropic plates using polynomials, 4A571
JAUREGUI, DV: Evaluation and testing of a fracture critical bridge, 6A768
JAUSLIN, C: Formulation of a bondline element for modeling glued joints in wood, 6A12
JAVIDRAD, F: Finite element model for delamination propagation in composites, 12A754
JAWOREK, A: Limiting trajectories of dust particles approaching a charged spherical collector, 9A1206
JAWOREK, K: Theory and Practice of Robots and Manipulators - Proc of RoMan5y 10: Tenth CISM-IFToMM Symp, 5N13
JAWORSKI, M: Laser processing: Numerical simulation of heat transfer phenomena, 3A1186
JAY, L: Symplectic partitioned Runge-Kutta methods for constrained Hamiltonian systems, 7A51
JAYA, I: Deterministic and stochastic analysis of acoustic plane-wave reflection from inhomogeneous porous seafloor, 7A339
JAYADEVAN, KR: Finite element simulation of wedge indentation, 2A373
JAYALAKSHMI, K: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595
JAYANTI, S: Response of turbulent flow to abrupt changes in surface roughness and its relevance in horizontal annular flow, 9A1146
JAYAPRAKASH, C: Conjectures about phase turbulence in the complex Ginzburg-Landau equation, 7T104
JAYARAMA RAO, G: Development of hybrid method coupling moire interferometry and FE analysis, 12A786
JAYARAMAN, G: Estimation of increased flow resistance in a narrow catheterized artery: A theoretical model, 12A1473
JAYASIMHA, DN: Navier-Stokes simulations of jet flows on a network of workstations, 9A1111
JAYASURIYA, K: Multiprecision arithmetic using fast Hartley transforms, 7A66
JAYASURIYA, S: Evaluation of several controller synthesis methodologies using a rotating flexible beam as a test bed, 5A331
JAYATHEERTHA, C: Application of artificial neural networks for the optimum design of a laminated plate, 9A881
JEAN, M: Contact Mechanics, 7N21
- Determination of the workspace of planar parallel manipulators with joint limits, 12A443
JEANDEL, D: Introduction of turbulent model in a mixed finite volume and FEM, 2A15
JEBBARI, N: Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A768
JEE, YONG JU: Effect of state of stress on compression failure in carbon-epoxy laminates, 5A640
JEELANI, S: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669
JEFFERIES, MG: Practical geometry correction for interpreting pressuremeter tests in clay, 2T518
JEFFERSON, A: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
JEGLITSCH, F: Laser microstructure modification of metallic materials, 9A730
JEKOT, T: Nonlinear problems of thermal postbuckling of a beam, 12A1281
JELALI, M: Volterra series expansion for state quadratic systems, 10A433
JELEMENSKA, J: Fatigue life estimation under random loading with respect to inhomogeneity of the mechanical properties of the material, 6A611
JELENIC, G: Enhanced lower-order element formulations for large strains, 6A32
JELENKOWSKI, J: Microstructural effect on fracture toughness of N26MT2Nb steel in the two-phase state, 1A842
- Effect of the rate and temperature of deformation on the M_d temperature, martensite morphology and mechanical properties of N26J2T3Nb steel (Polish), 9A1281
JEMIOLO, S: Alternative approach to the representation of orthotropic tensor functions in the 2D case, 10A4
JEN, CK: Thick-aluminum-coated optical fibers: Fabrication and sensor application, 11A351
JEN, FUHUA: Liapunov stability of force-controlled grasps with a multi-fingered hand, 8A353
JEN, T-C: Laminar forced convection in the entrance region of a semiporous channel, 11T1113
- Variable heat flux model of heat transfer in grinding with boiling, 11A1172
JEN, Y-M: Notch effect on two-level cumulative low-cycle fatigue life under different biaxial loading mode sequences, 5A598
JEN, YI-MING: Biaxial fatigue crack initiation life prediction of solid cylindrical specimens with transverse circular holes, 9A741
JENDO, S: Multicriterion optimization of space trusses with stiffness variation, 6A718
- Multicriterion reliability-based optimization of bar structure by stochastic programming, 9A885
JENDOUBI, S: Effect of counterflow on the development of compressible shear layers, 8A915
JENDRZEJCZYK, JA: Application of chaos theory in identification of two-phase flow patterns and transitions in a small, horizontal rectangular channel, 12A108
JENG, DS: Oscillatory soil response and liquefaction in an unsaturated layered seabed, 5A547
JENG, SM: Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, 4A734
- Fatigue life prediction of fiber-reinforced titanium matrix composites, 8A583
JENG, SY: Recirculation zones of unconfined and confined annular swirling jets, 8A968
JENG, YEAU-REN: Impact of plateaued surfaces on tribological performance, 8A794
JENG, YIH: Shallow seismic investigation of a site with poor reflection quality, 3A1302
JENG, YIH NEN: Algebraic grid front marching methods, 4A56
- Algebraic method using grid combination, 4A57
- Parabolic equation method of grid generation for enclosed regions, 10A47
- Revisit to the modified multiple 1D adaptive grid method, 10A48
- Hyperbolic equation method of grid generation for enclosed regions, 11T1084
JENKINS, DG: Nonlinear growth of the shock-accelerated instability of a thin fluid layer, 1A240
JENKINS, JE: Body-axis rolling motion critical states of a 65-degree delta wing, 9A1214
- Critical states and flow structure on a 65-deg delta wing, 9A1216
JENKINS, JT: Aggregate size effect on the predicted plastic response of hexagonal close-packed polycrystals, 6A404
JENKINS, RM: Analysis of ignition and flame spreading in solid rocket motor star slots, 4A1259
JENKINS, WK: Performance of ultrasonic speckle tracking in various tissues, 1A1464
JENKINSON, LR: Investigation into ice detection parameters for turboprop aircraft, 7A1171
JENNETT, NM: High resolution characterization of tribochemical films on alumina, 12A905
JENNINGS, A: Identification of yield-line collapse mechanisms, 8A417
JENNINGS, DE: Vehicle glow measurements on space transportation system flight 62, 10A1114
JENNINGS, HM: Modeling drying shrinkage of cement paste and mortar - Part 1: Structural models from nanometers to millimeters, 3A487
JENNINGS, LS: Optimal control of singular systems with a cost on changing control, 7T381
JENNINGS, RL: Magnetic structures in a dynamo simulation, 7A1141
JENNIONS, IK: Simulation of laminar-turbulent transition with an explicit Navier-Stokes flow solver, 4A1091
JENQ, ST: Characterization of piezo-film sensors for direct vibration and impact measurements, 2A680
- Ballistic impact response for two-step braided 3D textile composites, 7A251
JENSEN, DD: Equilibrium constrained assumed natural coordinate strain plate elements, 1A629
JENSEN, HM: Buckling instability of straight edge cracks, 5A658
JENSEN, MC: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395
JENSEN, MK: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12, 3N43
- Numerical and experimental analysis of combined convective and radiative heat transfer in laminar flow over a circular cylinder, 2A1135
- Critical heat flux and pressure drop of subcooled flow boiling in small-diameter tubes with twisted-tape inserts, 8A1133
JENSEN, MS: High convergence order FEs with lumped mass matrix, 11A35
JENSEN, OM: Dilatometer for measuring autogenous deformation in hardening Portland cement paste, 2A452
JENSEN, RK: Changes in segment mass and mass distribution during pregnancy, 6T1330
JENSEN, S: Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, 12A877
JENSEN, STIG: Comparative wear mapping techniques - II: Surface roughness and fractal dimension mapping of tungsten carbide-silicon carbide, 12A927
JENSSEN, CB: Coarse grid correction scheme for implicit multiblock Euler calculations, 3A920
JEON, BYUNG-HEE: Study on process improvements of multi-stage deep-drawing by the FEM, 6A562
JEON, I: Enriched FE analysis for a delamination crack in a laminated composite strip, 7A860
JEON, SEONG MIN: Static and dynamic analysis of composite box beams using large deflection theory, 1A592
JEON, WP: Measurement of transitional boundary layer on a flat plate using a computational Preston tube method, 5A928
JEONE, BONG JIN: Biocompatibility of polysulfone - II: Platelet adhesion and CHO cell growth, 6T1353
JEONG, GD: Identification of stiffness reductions using natural frequencies, 2A699
JEONG, H-Y: Macroscopic constitutive law for porous solids with pressure-sensitive matrices and its implications to plastic flow localization, 2A5
JEONG, HYUNJO: Quantitative estimation of material properties of porous ceramics by means of composite micromechanics and ultrasonic velocity, 12A562
JEONG, KWANG SEOP: Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, 4A486
JEONG, KYEONG-HOON: Fourier series expansion method for free vibration analysis of either a partially liquid-filled or a partially liquid-surrounded circular cylindrical shell, 5A232
JEONG, TAE GUN: Numerical simulation of head-disk impacts during dynamic loading processes, 5A762

JEREMIC, B: Tribological behavior of solid lubricant coatings, 6T828
JEREMY KASDIN, N: Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, 11A267
JERNQVIST, A: Energy efficient evaporation process for treating bleach plant effluents, 3A1090
JEROME, JW: Steady-state quantum hydrodynamic model for semiconductors, 5T875
JERONIMIDIS, G: Mechanics of biological materials and structures: Natures lessons for the engineer, 2A719
JERONYMO, CE: Application of unified predictive control for an electro-hydraulic servo system, 6A334
JERSCHOW, P: Development of oblong particles as precursors for polymer crystallization from shear flow: Origin of the so-called fine grained layers, 10A1046
JESCHAR, R: Simplified modeling of NO formation in technical combustion processes, 1A1327
JESKE, T: Computerized simulation of interaction between relieving structure and buried waste pipeline (Polish), 10A617
JESTIN, D: Improved genetic algorithm for the design of stiffened composite panels, 4A557
JESWIET, J: Aspect ratio, friction forces and normal forces in strip rolling, 3A608
JEULIN, D: Fracture statistics of a unidirectional composite, 7A832
JEWETT, DG: Scaling bacterial filtration rates in different sized porous media, 10A1126
JEYAKUMARAN, R: Approximations to sloshing frequencies for rectangular tanks with internal structures, 4A287
JEYASEELAN, RS: Role of temperature in the entanglement kinetics of a polymer melt, 5A452
JEZEQUEL, L: Elastic-plastic water hammer analysis in piping systems, 4A272
- Identification of NARMAX models on a modal base, 7A373
- Optimal preview semiactive suspension, 9A429
- Energy flow analysis of bars and beams: Theoretical formulations, 10A146
JHA, AK: First- and second-order flux difference splitting schemes for dam-break problem, 6A890
JHA, NK: Computer-aided optimal turning of stepped shaft, 10A711
JHEMI, AA: Optimal vertical takeoff and landing helicopter operation in one engine failure, 9A965
JI , ZHONGZHEN: Class of explicit forward time-difference square conservative schemes, 3A40
JI, CHANGYING: Chain-paddle driving mechanism and its pull prediction, 5A546
JI, CHING-CHINA: Input estimation approach to on-line 2D inverse heat conduction problems, 10A1295
JI, FENG: Scattering of vertically-incident P-waves by an embedded pile, 9A271
JI, FS: Non-axisymmetric matrix cracking in unidirectional brittle matrix composites, 5A654
- Effect of transverse cracking on stiffness reduction of cross-ply laminates, 8A642
JI, SAO CHENG: Improved method of collocation for the problem of crack surface subjected to uniform load, 12A779
JI, XING: Three-dimensional axisymmetric analysis of a cracked fiber in a transversely-isotropic elastic medium, 8A456
JI, Z-Y: Hybrid-Trefftz FE formulation for simulation of singular stress fields, 6A26
- Hybrid-Trefftz equilibrium model for crack problems, 7A861
JI, ZHUOSHANG: Approximate calculation of contraction of formed camber (Chinese), 8A550
- Research and development for expert system of ship general arrangement (Chinese), 8A345
- Unigraphics software and ship CAD-CAM platform (Chinese), 9A1015
- Ship hull geometric modeling design and software system (Chinese), 9A1014
JI, ZL: Boundary element scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, 1A293
JIA, BAO-PING: Use of compatibility linkages and solution structures in the dimensional synthesis of mechanism components, 11A826
JIA, H: Transient laminar natural convection heat transfer from isothermal spheres, 6A1080
- Laminar natural convection heat transfer from isothermal spheres, 8A1075
JIA, JINQING: Expert system for preliminary bridge design (Chinese), 8A341
JIA, MINPING: Structure identification method for random vibration (Chinese), 4T140
JIA, SHAOBO: Turbulent near-wall model on convective heat transfer from an abrupt expansion tube, 6A1073
JIA, WEI: Incompressible flow solver of arbitrarily moving bodies with rigid surface, 11T906
JIA, X: Distributed study of air temperature inside a dry-expansion evaporator, 7A1272
JIA, XIAOPING: Nonlinear distortion of finite-amplitude ultrasonic waves investigated by optical heterodyne interferometry, 5A294
JIAHUA, YAN: Measurement of pose repeatability of Stewart Platform, 4A414
JIAN, LI: Fourier-Chebyshev spectral method for the 2D Navier-Stokes equations, 12A1058
JIANG , JIN-SHENG: Checkerboard patterns of P_2-P_1 discontinuous pressure elements, 3A25
JIANG , JINREN: Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), 3A1321
JIANG , ZHONGHAO: Dislocation density approximation for the flow stress-grain size relation of polycrystals, 1A516
JIANG, AIMIN: Stochastic BEM in statistical analysis of moderately thick plates, 1A625
JIANG, BO-NAN: Least-squares FEM for low-Mach-number compressible viscous flows, 4A997
JIANG, CP: Special bending crack tip FE, 1A41
- Antiplane problems of collinear rigid line inclusions in dissimilar media, 4A718
- Application of the finite strip method to plane fracture problems, 5A664
JIANG, CY: Laser fantasy: From machining to welding, 12A689
JIANG, D: Influence of detailed blade design on the aerodynamic performance of straight-bladed vertical axis wind turbines, 8A1011
JIANG, DANCHI: Gradient flow approach to decentralized output feedback optimal control, 11A278
JIANG, H: Robust linear and nonlinear strategies for solution of the transonic Euler equations, 2A902
JIANG, H WANDA: Effect of film hole row location on film effectiveness on a gas turbine blade, 11A1096
JIANG, HD: Thermosolutal transport phenomena in large Lewis number electrochemical systems, 5A1204
JIANG, HONG-DAO: Statistics of eigensolutions for systems with random shape parameters using BEM, 10A55
JIANG, J: Rigid-pastic analysis of underwater blast loaded stiffened plates, 1A508
- Room temperature formability of particle-reinforced metal matrix composites: Forging, extrusion, and deep drawing, 2A557
JIANG, J-Q: Dry sliding wear of an alumina short fiber reinforced Al-Si alloy against steel, 12A900
JIANG, JIESHENG: Adaptive control of vehicle system (Chinese), 6A323
JIANG, JP: Acceleration of a sphere behind planar shock waves, 6A199
JIANG, JUN: Global bifurcation characteristics of the forced van der Pol oscillator, 8A85
JIANG, L: Finite element formulation for finite static axisymmetric deformation of hyperelastic membranes, 1A611
- Note on hyperbolic heat conduction in a rigid solid, 6A1112
- Application of the Taylor-Galerkin FE and Godunov-type finite difference methods to finite amplitude axisymmetric waves in hyperelastic membranes, 10A270
- Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, 12A10
JIANG, LEI: Load identification of inverse analysis with viscoelastic static displacement (Chinese), 8A403
- Hydrodynamic interactions of cnoidal waves with a vertical cylinder, 11A215
JIANG, LING: Integral hydro-bulge forming of double-layer gap spherical vessels, 6A566
JIANG, LONG Z: Exact electroelastic analysis of piezoelectric laminae via state space approach, 6A509
JIANG, MINGWEN: Damaged evolution model for strain fatigue of ductile metals, 4A755
JIANG, MINGXIAO: Stochastic modeling of fatigue crack growth under constant amplitude loading, 12A730
JIANG, MX: Nonlinear fatigue damage accumulation under random loading, 10A756
JIANG, QING: Twinning-induced stress concentrations in polycrystalline solids, 9A796
JIANG, SHAOYIN: Application of Spinor method to dynamic analysis of robot, 9A453
JIANG, SHIQUAN: Study of swirl velocity decaying by cementing turbulators and its application (Chinese), 11A959
JIANG, TSUNG LEO: Numerical investigation of multiple flame configurations in convective droplet gasification, 3A1227
- Transient heating and vaporization of a cool dense cloud of droplets in hot supercritical surroundings, 6A1109
JIANG, W: Inelastic torsional coupling of building models, 8A1340
JIANG, WEI: General formulation of the theory of wire ropes, 5A129
JIANG, XIAOFEI: Thermal non-Newtonian EHL analysis of rib-roller end contact in tapered roller bearings, 5A1101
JIANG, XIAOLIN: New method to determine the R-curve of ceramics fracture grating method, 9A856
JIANG, XUN: $P^1 - P^0$ FEM for a model of polymer crystallization, 1A40
JIANG, YANYAO: Comments on the Mroz multiple surface type plasticity models, 6A393
- Characteristics of the Armstrong-Frederick type plasticity models, 12A512
JIANG, YAQUN: New pipe element for modeling 3D large deformation problems, 11A37
JIANG, ZHONG-YUE: Nonlinear interaction of two plane waves in a viscous medium, 10A337
JIANG, ZQ: Numerical calculation of 2D effective moduli for microcracked solids, 8A388
- Hybrid micro-macro BEM with micro-scale inclusion-crack interactions, 10A51
JIANMING, XIAO: Study on the method for groove design in the helical rolling of steel balls, 7A726
JIAO, GUOYANG: Probabilistic prediction of extreme stress and fatigue damage for ships in slamming conditions, 11A788
JIAO, ZHAOPING: A new way for formulation of 4-node quadrilateral isoparametric incompatible elements (Chinese), 11A38
JIE, JIN REN: Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expanded bed surface of a gas fluidized bed: Conditional sampling statistical analysis, 2A1220
JIE, MIN: Simplified over-stress analytical model of the dynamic buckling of a perfectly plastic column under axial impact, 1A674
- Liapunov's stability of clamped orthotropic round plate under radial axisymmetrical impact load, 9A626
JIH, CJ: Quasi-static modeling of delamination crack propagation in laminates subjected to low-velocity impact, 1A820
JIH, E: Evaluation of design parameters for leadless chip resistors solder joints, 3A864
JIMENEZ, J: Steady columnar vortices under local compression, 2A869
- Structure of the vortices in freely-decaying 2D turbulence, 11A1000
- Algebraic probability density tails in decaying isotropic 2D turbulence, 11A998
JIMENEZ, MA: Generation of discontinuous gaits for quadruped walking vehicles, 1A422
JIN , CHI-SUB: Calculation of stress intensity factors by the surface integral method, 8A618
JIN, BO: Mindlin's solution for axially symmetric problem of multilayer subsoils (Chinese), 11A413
JIN, D: Tool failure detecting by ID3, 3A626
JIN, F: Nondestructive evaluation of corrosion by fractal geometry, 10A762
JIN, G: Reverberation loss in shallow water, 2A222
JIN, GUOLIANG: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
JIN, H: Subdomain residual method for a posteriori error estimates of FE solutions of viscoelastic fluid flows, 12A1015
JIN, HS: Numerical solution of two-layer, 2D tidal flow in a boundary-fitted orthogonal curvilinear coordinate system, 4A1343
JIN, IK MIN: Structural-control system optimization with variable actuator masses, 2A738
JIN, IM: Design of structure-control systems with transient response constraints exhibiting relative minima, 6A714
JIN, JIANMING: Finite Element Method in Electromagnetics, 1N3
JIN, JUNZE: Research on itegrated system of casting technology CAD and numerical simulation (Chinese), 7A757
JIN, LONG: Decentralized robust fault tolerant control for the sensor failure of the fighter, 6A340
JIN, SHUANG: Efficiency and accuracy in simulation of random fields, 9A114
JIN, WG: Trefftz direct method, 5A51
JIN, WL: Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part 1: Single edge oblique cutting, 5A573
JIN, XIAOHAI: Study on direct kinematics of Stewart platform: Kinematic analysis by origami solution (Japanese), 12A448
JIN, YAO: Exact solution of sandwich beams, 1A597
JIN, YH: Interaction of a single laser-generated cavity in water with a solid surface, 10A345
JIN, YING: Animate simulation for coaxial collision of two bars (Chinese), 8A185
JIN, YOUMING: Boiling point and molar enthalpy of vaporization of fluorint FC-70 $N(C_5F_{11})_3$: Determined by static-sample and DSC methods, 1A1156
JIN, YUANSHENG: Study on abrasive resistance of Ni-based coatings with a WC hard phase, 12A934
JIN, YY: Instability of convection and heat transfer of high Prandtl number fluids in a vertical slot, 11A1128
- Natural convection of high Prandtl number fluids with variable viscosity in a vertical slot, 11A1124
JIN, ZHI-HE: Stress intensity relaxation at the tip of an edge crack in a functionally graded material subjected to a thermal shock, 12A740
- Thermal fracture of functionally gradient ceramics, 12A1286
JIN, ZM: Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374
- Determination of lubricating film thickness for permeable hydrogel and non-permeable polyurethane layers bonded to a rigid substrate with particular reference to cushion form hip joint replacements, 12A1488
JIN, ZS: Weak and strong interactions in vortex-induced resonant vibrations of cylindrical structures, 8A220
JINAN, SHANDONG: Vibration analysis of structures with rotation and reflection symmetry, 12A133
JING, ZHONGLIANG: Stochastic neural network and its application to multi-maneuvering target tracking, 6A297
JINGXIE, LUO: Expressions for predicting the residual stress in surface induction hardening of steel bars, 8A1233
JINKA, AGK: Finite-element prediction of densification kinetics during the hot isostatic pressing of metal powder compacts, 12A700
JINNO, O: Influence of surface roughness on friction and scuffing behavior of cast iron under sparse lubrication, 8A795
JINNOUCHI, Y: Impact damper with granular materials for multibody system, 7A211
JIRASEK, M: Particle model for quasibrittle fracture and application to sea ice, 1A1439
JIRKA, GH: Large scale planar laser induced fluorescence in turbulent density-stratified flows, 3A952
JIRKOVSKY, L: Quantuum model for the onset of turbulence, 12A1146
JIROUSEK, J: Numerical assessment of a new T-element approach, 1A39
- Accurate representation of local effects due to concentrated and discontinous loads in hybrid-Trefftz plate bending elements, 2A479
- Application of hybrid-Trefftz element approach to transient heat conduction analysis, 3A1122
- Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, 4A564
- T-elements: A FE approach with advantages of boundary solution methods, 5A38
JIRSA, JO: Effects of epoxy coating on anchorage and development of welded wire fabric, 5A707
JISHAN, HE: Velocity inversion for acoustic waves with wavelet operator, 4A313
JITSUKAWA, S: Weldability of neutron-irradiated type 316 stainless steel, 11A840
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
JO, CHURL-HYUN: Optimal 9-point, finite-difference, frequency-space, 2D scalar wave extrapolator, 8A1332
JOANNOPOULOS, J: Materials Theory, Simulations, and Parallel Algorithms, Volume 408, 11N32
JOB, L: Studies on the adhesives for rubber to rubber bonding, 3A874
JOBE , CE: Critical states and flow structure on a 65-deg delta wing, 9A1216
JODAR , L: Second-order difference systems in unbounded domains: Existence conditions and construction of exact and approximate bounded solutions, 1A43
JODAR, L: Accurate numerical integration of stiff differential Riccati equations, 1A66
JOE, B: Quality local refinement of tetrahedral meshes based on 8-subtetrahedron subdivision, 12A29
JOG, C: Distributed-parameter optimization and topology design for nonlinear thermoelasticity, 12A812
JOG, CS: New approach to variable-topology shape design using a constraint on perimeter, 8A718
- Stability of FE models for distributed-parameter optimization and topology design, 12A831
JOG, MA: Evaporation and combustion of a slowly moving liquid fuel droplet: Higher-order theory, 7A1093
- Transient heating and melting of particles in plasma spray coating process, 11A1201
JOHANNESSON, B: Internal stresses in planar random fiber aluminum composites - I: Tensile tests and cyclic Bauschinger experiments at room temperature and 77 K, 4A500
- Internal stresses in planar random fiber aluminum composites - II: Mean stress hardening and relaxation, 4A501
JOHANSEN, A: Experimental investigation for agglomeration of aerosols in alternating electric fields, 4A1284
JOHANSEN, TA: Semi-empirical modeling of nonlinear dynamic systems through identification of operating regimes and local models, 4A337
JOHANSSON, B: Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, 9A1249
JOHANSSON, FK: Welding residual distortions in ring-stiffenod pipes, 11A841
JOHANSSON, L: Derivation and analysis of a generalized standard model for contact, friction, and wear, 8A786
JOHANSSON, O: Annoyance of idling diesel engine noise evaluated by multivariate analysis, 7A348
JOHANSSON, P: Modified collocated SIMPLEC algorithm applied to buoyancy-affected turbulent flow using a multigrid solution procedure, 1A1223
JOHANSSON, S: Fatigue crack growth studies under combination of single overload and cyclic condensation environment, 2A586
JOHARI MAJD, V: Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, 4A347

JOHARI, H: Delta wing vortex control via recessed angled spanwise blowing, 1A1101
- Delta wing vortex manipulation using pulsed and steady blowing during ramp-pitching, 9A1217
JOHARI, MAK: Measurement techniques and effects on in-plane permeability of woven cloths in resin transfer molding, 9A723
JOHN, J: Development of a 2D turbulent wake in a curved channel with a positive streamwise pressure gradient, 12A1120
JOHN, R: Weight function for a single edge cracked geometry with clamped ends, 4A712
JOHN, Z: Adaptive path planning and obstacle avoidance for a robot with a large degree of redundancy, 7A428
JOHNSEN , BP: Compressive fatigue of a plasma sprayed ZrO_2-8 wt% Y_2O_3 and ZrO_2-10 wt% NiCrAlCoY TTBC, 5A591
JOHNSEN, K: Mechanical analysis of high precision manipulator, 4A400
JOHNSON JR, MG: Control variables for FE solution of missile trajectory optimization, 3T345
JOHNSON, AR: Viscohyperelastic FE model for rubber, 4A476
- ER shear characteristics: Volume fraction, shear rate, time response, 12A431
JOHNSON, BE: Use of a virtual configuration in formulating constitutive equations for residually stressed elastic materials, 7A514
JOHNSON, BJ: Dry sliding wear of NiAl, 10A971
JOHNSON, C: Adaptive FEMs for parabolic problems - IV: Nonlinear problems, 4A22
- Adaptive FEMs for parabolic problems - V: Long-time integration, 4A23
JOHNSON, D: Automated yield-line analysis of orthotropic slabs, 2A470
- Automated yield-line analysis of beam-slab systems, 8A741
JOHNSON, DA: Weight function for a single edge cracked geometry with clamped ends, 4A712
JOHNSON, E: Experimental investigation for agglomeration of aerosols in alternating electric fields, 4A1284
JOHNSON, ER: Analysis of an internally pressurized orthogonally stiffened cylindrical shell with an asymmetrical section ring, 8A496
- Mixed variational formulation for interlaminar stresses in thickness-tapered composite laminates, 10A568
JOHNSON, GA: Single integral finite strain viscoelastic model of ligaments and tendons, 11A1459
JOHNSON, GE: Application of elementary neural networks and preview sensors for representing driver steering control behavior, 7A395
- Design, construction and instrumentation of a machine to measure tension and impact forces in roller chain drives, 9A996
- Experimental investigation of link tension and roller-sprocket impact in roller chain drives, 9A997
JOHNSON, GR: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319
- Artificial viscosity effects for SPH impact computations, 10A282
- Modeling the muscles of the scapula morphometric and coordinate data and functional implications, 12A1456
JOHNSON, GT: Numerical study of dispersion of passive scalars in city canyons, 3T1386
JOHNSON, JA: Modified reduced gravity model for interannual variations of a sub-tropical ocean, 3T1344
- Accuracy of an electromagnetic tracking device: A study of the optimal operating range and metal interference, 10A1483
JOHNSON, JE: Methodology to assess design uncertainty in selecting affordable gas turbine technology, 5A1284
JOHNSON, KL: Contact mechanics and the wear of metals, 5A791
JOHNSON, KO: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474
JOHNSON, LK: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
JOHNSON, LR: Flow visualization with air and smoke in a bypass graft model under steady flow conditions, 1A1453
JOHNSON, M: Effect of aging and pressure on the specific hydraulic conductivity of the aortic wall, 8A1426
JOHNSON, MA: Root loci of H_∞ optimal control: A polynomial approach, 11A286
JOHNSON, ME: Active control of sound radiation using volume velocity cancellation, 3A281
JOHNSON, MS: Single-event upset effects on the Clementine solid-state data recorder, 5A752
JOHNSON, MW: Off-design flow measurements in a centrifugal compressor vaneless diffuser, 5A1047
- Three-dimensional flow measurements in conical and straight wall centrifugal compressor vaneless diffusers, 8A1028
- Detailed stress tensor measurements in a centrifugal compressor vaneless diffuser, 11A1050
JOHNSON, P: Implications of tendon modeling on nonlinear response of TLP, 7A973
JOHNSON, PA: Modeling uncertainty in prediction of pier scour, 6A886
- Uncertainty of hydraulic parameters, 6T894
- Elastic pulsed wave propagation in media with second- or higher-order nonlinearity - Part II: Simulation of experimental measurements on Berea sandstone, 12A218
JOHNSON, R: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458
JOHNSON, RA: Multigrid approach to overset grid communication, 4A63
JOHNSON, RC: Reliability-based casing design, 1A948
JOHNSON, RE: Asymptotic model of slab casting, 1A732
- Modeling and designing a variable-displacement open-loop pump, 12A426
JOHNSON, RG: Extinction of premixed flames by pressure drops, 1A1338
JOHNSON, RW: Quantification of Uncertainty in Computational Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf, 2N3
JOHNSON, SY: Tectonics and seismicity of the southern Washington Cascade range, 11A1336
JOHNSON, VT: Damage assessment of composite structures: A fuzzy logic integrated neural network approach, 1A774
JOHNSON, W: Impact loading of plates and shells by free-flying projectiles: A review, 6A189
JOHNSON, WP: Scaling bacterial filtration rates in different sized porous media, 10A1126
JOHNSON, WS: Preliminary evaluation of hybrid titanium composite laminates, 8A460
- Thermal residual stresses in the analysis of fiber-bridged matrix crack growth in titanium matrix composites, 11A1253
JOHNSTON , DN: Impedance characteristics of hydraulic orifices, 6A336
JOHNSTON, A: Single-event upset effects on the Clementine solid-state data recorder, 5A752
JOHNSTON, AJ: Fractional step method for mass transport in groundwater, 6A1190
JOHNSTON, DN: Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
- Measurement of positive displacement pump flow ripple and impedance, 9A345
JOHNSTON, IW: Finite element code for fracture propagation analysis within elasto-plastic continuum, 6A11
JOHNSTON, JD: Thermal response of radiantly heated spinning spacecraft booms, 6A1140
JOHNSTON, JP: Advances in 3D turbulent boundary layers with emphasis on the wall-layer regions, 12A1097
JOHNSTON, LJ: Automatic grid generation and flow solution for complex geometries, 11A46
JOHNSTON, M: Grain multiplication mechanism for the formation of transition zones in first year sea ice, 3A1393
JOHNSTON, PR: Survey of Test Methods in Fluid Filtration, 8R26
JOHNSTON, WA: Flow-structural interaction inside a solid rocket motor during ignition transient, 2A1195
JOLLY, MR: Passive tuned vibration absorbers for sound radiation reduction from vibrating panels, 10T236
- Control effort weighting in feedforward adaptive control systems, 10A364
JOLLY, PG: Distributed study of air temperature inside a dry-expansion evaporator, 7A1272
JOLLY, SD: Weld joint design for EVA repair of co-orbit fluid systems, 2A206
- Design of large systems for packaging and launch on multiple, heterogeneous vehicles, 10A943
JOLY, A: Heat transfer modeling in a polymer sample located in a microwave field - II: Transient state, 3A1107
JOLY, JP: Heat transfer modeling in a polymer sample located in a microwave field - II: Transient state, 3A1107
JOLY, N: ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, 6A1104
JOLY, P: Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77, 11N19
JOMAA, W: Relative permeability relations: A key factor for a drying model, 12A1347
JONAS, JJ: Consistent tangent operator for plasticity models based on the plastic strain rate potential, 5A460
- Textures induced by tension and deep drawing in aluminum sheets, 6A563
- Behavior of initial texture components during the plane strain drawing of FCC sheet metals, 6A560
JONES , JD: Equivalent forces and wavenumber spectra of shaped piezoelectric actuators, 4A395
JONES, AC: Design and test of a small, high pressure ratio radial turbine, 11A1039
JONES, AF: Effects of axial temperature gradients in the wall of a detonator delay element, 5A1251
JONES, BL: Near real-time approach to statistical flight test, 1A1126
JONES, C: Study of the interphase region in carbon fiber-epoxy composites using dynamic mechanical thermal analysis, 11A475
JONES, CA: Onset of convection in a rapidly rotating compressible fluid spherical shell, 7A1120
- Linear magnetoconvection in a rotating spherical shell, incorporating a finitely conducting inner core, 7T1140
JONES, CJFP: Design of reinforced fill systems to support footings overlying cavities, 12A657
JONES, DA: Enslaved finite difference schemes for nonlinear dissipative PDEs, 5A39
JONES, DIG: Renewal theory of inelasticity, 1A497
- Reflections on damping technology at the end of the 20th century, 8A156
JONES, DK: Waverider design for generalized shock geometries, 5A907
JONES, DP: Fatigue and Crack Growth: Environmental Effects, Modeling Studies, and Design Considerations - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N28
- Modeling the influence of filler particles on surface geometry in drawn PET film, 6A418
JONES, DRH: Cracking of foam insulation in a liquid methane tank, 2T660
- Effects of loading variables on fatigue crack growth in liquid metal environments, 4A665
- Creep of metal-type organic compounds - II: Indentation creep, 8A408
- Whirling failure in a woodworking lathe, 9T237
JONES, EG: Surface fouling in aviation fuels: An isothermal chemical study, 10A1375
JONES, EM: Are L_m spectra from NTS explosions self-similar?, 11A1383
JONES, FR: Effect of support matrix on interfacial shear strength determination by the bimatrix fragmentation technique, 12A540
JONES, HRN: Influence of fuel composition on emissions of CO, NO, and NO_2 from a gas-fired pulsed combustor, 9A1323
JONES, IA: Curved laminated orthotropic axisymmetric element based upon Flugge thin shell theory, 12A35
JONES, JB: Engineering Thermodynamics, 2R51
JONES, JD: Influence of piezo-actuator thickness on the active vibration control of a cantilever beam, 3A110
- Dynamic effects of piezoactuators on the cylindrical shell response, 9A649
- Curved piezoactuator model for active vibration control of cylindrical shells, 10A882
JONES, JDC: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562
- Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
JONES, JJ: Quasi-static control of natural frequencies of composite beams using embedded piezoelectric actuators, 1A138
JONES, KD: Time-domain analysis of low-speed airfoil flutter, 10A314
JONES, LD: Self-sensing magnetostrictive actuator for vibration suppression, 11T740
- Benchmark problems for defect size and shape determination in eddy-current NDE, 12A798
JONES, LE: Source characteristics of the January 17, 1994 Northridge, California, earthquake from regional broadband modeling, 6A1233
JONES, M: Evolution equations and stability results for finite-depth Wilton ripples, 8A201
JONES, ME: Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882
JONES, MG: Parallel-element liner impedances for improved absorption of broadband sound in ducts, 7A355
- Validation of a numerical method for extracting liner impedance, 8A105
JONES, MI: Size effects in interlaminar tensile and shear strength of unidirectional glass fiber-epoxy, 7A840
JONES, MR: Design and test of a polar nephelometer, 2A1206
- Civil airframe structural integrity: Some probabilistic aspects of risk assessment, 8A732
- Application of a genetic algorithm to the optical characterization of propellant smoke, 10A1299
JONES, N: Structures Under Shock and Impact IV - Proc of 4th Int Conf, Udine, Italy, July 1996, 11N17
- Observations on the dynamic elastic-plastic buckling of a structural model, 1A676
- Note on the inertia and strain-rate effects in the Tarn and Calladine model, 1A214
- Approximate elastic-plastic analysis of the static and impact beaviour of polymer composite sandwich beams, 4A522
- Low-velocity perforation of punch-impact-loaded metal plates, 10A277
JONES, P: Clementine dosimetry, 5A741
JONES, PD: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13, 3N44
- Correlation of measured and computed radiation intensity exiting a packed bed, 8A1179
- Spectral-directional emittance of oxidized copper, 10A1307
- Correlation of combined radiation and conduction in evacuated honeycomb-cored panels, 11A1212
JONES, R: Airworthiness of composite repairs: Failure mechanisms, 2A443
- Determination of arbitary, non-shearing end-loadings from the bulk stress on the lateral surface of a rectangular prism, 4A431
- Developments in the analysis of interacting cracks, 6A9
JONES, RD: Thermal modeling and analysis of laser calorimeters, 10A1244
JONES, RI: Considerations of the all electric (accessory) engine concept, 6A1215
JONES, RR: Friction force microscopy as a probe of molecular relaxation on polymer surfaces, 4A847
JONES, RS: Flow of continuous fiber-reinforced composites in steady shear, 9A532
JONES, S: Mathematical model of a biosensor, 12A454
JONES, SA: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
JONES, SE: Elementary theory of 1D rod penetration using a new estimate for pressure, 7A254
JONES, SP: Water vapor transmission through hull material and buoyancy of aerostats, 11A1023
JONES, T: Nondestructive Inspection of Composite Materials, 8N19
JONES, TER: Numerical and experimental studies of annular flume flow, 9A1077
JONES, TV: Gun tunnel investigation of hypersonic free shear layers in planar duct, 2A906
- Heat transfer measurements in an annular cascade of transonic gas turbine blades using the transient liquid crystal technique, 5A1080
- Endwall heat transfer measurements in an annular cascade of nozzle guide vanes at engine representative Reynolds and Mach numbers, 11A1063
- Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
JONES-OLIVEIRA, JB: Transient analytic and numerical results for the fluid-solid interaction of prolate spheroidal shells, 6A213
JONGMANS, D: Microearthquake S-wave observations from 0 to 1 km in the Varian well at Parkfield, California, 6A1265
JONGSCHAAP, RJJ: Generalized Rouse model for a dilute solution of clustered polymers, 1A968
- Bead-spring model incorporating cyclic structures, non-equal springs and beads with non-equal friction coefficients, 12A1008
JONSSON, IG: Sediment suspension in oscillatory flow: Measurements of instantaneous concentration at high shear, 12A1026
JONSSON, J: Fatigue analysis and testing of adhesive joints, 9A756
JONSSON, L: Modeling of mixing by turbulent jet in stably stratfied fluid, 6A971
JONSSON, N: Buckling and fracture behavior of delaminations, 10A754
JOO, SANG W: Interfacial instabilities in plane Poiseuille flow of two stratified viscoelastic fluids with heat transfer - Part 1: Evolution equation and stability analysis, 2A384
JOO, WONJONG: Knowledge-based hybrid expert system for automated interferometric data reduction, 5A343
JORAND, F: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
JORDAAN, IJ: Triaxial tests on crushed ice, 11A1446
- Ice fracture and spalling in ice-structure interaction, 11A1440
JORDAN, SA: Large-eddy simulation of the shear-driven cavity flow using dynamic modeling, 12T1137
JORGENSEN, K: Elastic postbuckling with nonlinear constraints, 11A537
JORGENSEN, O: Cracking and spalling of multilayered chromium coatings, 3A668
JORILLO JR, PA: Stress-strain properties of coir fiber reinforced cement composite in axial compression, 1A547
- Morphological and flexural properties of lightweight gypsum based fiber reinforced composites, 4A519
JOSE, J: Equilibres liquide-vapeur isothermes de melanges binaires de la piperidine et de la N-methyl piperidine avec certains ethers (French), 8A1061
JOSEFSON, BL: Residual stresses at a longitudinal stiffener-web frame intersection and their effects on crack growth, 2A572
- Prediction of fatigue life based on level crossings and a state variable, 3A656
- Routine FE determination of stress intensity factors using a Muller-Brealau influence function technique, 3A682
- Use of energy flow concept in vibration design, 11A159
- Welding residual distortions in ring-stiffened pipes, 11A841
JOSEPH, B: Chaotic advection by Rossby-Haurwitz waves, 11T83
JOSEPH, DD: Unsteady motion of solid bodies in creeping flows, 4A949
- Parallel pipelining, 5A942
- Two-dimensional cusp at the trailing edge of an air bubble rising in a viscoelastic liquid, 6A946

- Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid, 10A1119
- Flow characteristics of concentrated emulsions of very viscous oil in water, 11A857
- Motion of a solid sphere suspended by a Newtonian or viscoelastic jet, 11A438

JOSEPH, FP: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18

JOSEPH, PF: Singular antiplane stress fields for bonded and disbonded three-material junctions, 4A737

JOSEPH, R: Studies on the adhesives for rubber to rubber bonding, 3A874

JOSHI, A: Free vibration characteristics of variable mass rockets having large axial thrust-acceleration, 4A156
- Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, 4A39
- Effect of partial clamping on bending-torsion modal parameters of cantilevered swept and tapered plates, 8A114
- Transonic drag effect on vibration characteristics of single-stage space vehicles, 10T218

JOSHI, PV: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237

JOSHI, SB: Shop floor controller class for computer - integrated manufacturing, 2A348

JOSHI, SM: Dissipative controllers for nonlinear multibody flexible space structures, 3A365
- Integrated controls-structures design methodology for flexible spacecraft, 5A243
- Integrated controls-structures design methodology: Redesign of an evolutionary test structure, 8A272

JOSHI, SP: Stochastic modeling of fracture processes in fiber reinforced composites, 2A604

JOSKOWICZ, L: Interference-free insertion of a solid body into a cavity: An algorithm and a medical application, 11A397

JOSLIN, RD: Scalability of parallel spatial direct numerical simulations on Intel hypercube and IBM SP1 and SP2, 4A93

JOST, BM: Refractive fiber optic microphones with ambient acoustic noise-canceling capabilities, 1A341

JOST, ML: Monitoring nuclear test sites with GERESS, 11A1390

JOU, JONG JHY: Compositionally convective and morphological instabilities of a binary fluid layer under freezing with nonlinear analysis, 4A1242
- Thermal stability of horizontally superposed porous and fluid layers in a rotating system, 8A1087

JOU, JONG-JHY: Runge-Kutta method for a two-layer system to shoot from two constraint sets to the same target set, 11A50

JOULAIN, P: Three-dimensional modeling and parametric study of turbulent burning along the walls of a vertical rectangular channel, 7A1337
- Modeling of normal and erosive burning rate of a hot double-base homogeneous propellant, 9A1325
- Three-dimensional modeling for prediction of wall fires with buoyancy-induced flow along a vertical rectangular channel, 10A1376

JOUMA'A, M: Trailing vortex effects on large receiver aircraft, 5A1011
- Lateral and directional stability and control in air-to-air refueling, 6A1022

JOVANOVIC, A: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18

JOVANOVIC, AS: Analyses of possible failure mechanisms and root failure causes in power plant components using neural networks and structural failure database, 10A446

JOVANOVIC, J: LDA measurements in the near-wall region of a turbulent pipe flow, 1A246
- Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, 10A1146

JOVANOVIC, M: Experimental verification of the MacCormack numerical scheme, 3A890

JOVICIC, V: Objective criteria for determining G_{max} from bender element tests, 12T649

JOYCE, MJ: Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, 5T943

JOYCE, JA: Elastic-Plastic Fracture Laboratory Test Procedures, Manual 27, 12N24

JOYCE, TJ: Wear of cross-linked polyethylene against itself, 9T771

JOYE, DD: Heat transfer enhancement in annular channels with helical and longitudinal fins, 2A1088
- Comparison of correlations and experiment in opposing flow, mixed convection heat transfer in a vertical tube with Grashof number variation, 6A1090
- Comparison of aiding and opposing mixed convection heat transfer in a vertical tube with Grashof number variation, 11A1131

JOYEUX, A: Interaction of wall conduction with natural convection from heated cylinders in a rectangular enclosure, 6A1084

JOZWIAK, W: Results of induction study within the Pomeranian segment of the Teisseyre-Tornquist tectonic zone, 6T1261

JU, CP: Effect of humidity on the tribological behavior of carbon-carbon composites, 11A802

JU, HONGBIN: Weakly nonlinear analysis on identification of vortex, sound, and heat, and their interactions in shear flow, 11A247

JU, JW: Micromechanical evolutionary damage models for polycrystalline ceramics, 10A823

JU, MS: Extraction of normal modes for highly couples incomplete systems with general damping, 6A271

JU, SANG-BAEK: New incompatible four-noded axisymmetric elements with assumed strains, 11A36

JU, Y: Asymptotic and numerical analyses of ignition of a fuel jet in a supersonic airstream, 5A1209
- Spectral analysis of 2D contact problems, 10A984

JU, YIGUANG: Ignition simulation of methane-hydrogen mixtures in a supersonic mixing layer, 1A1328

JUAN, WEN-HAN: Released Si microstructures fabricated by deep etching and shallow diffusion, 11T360

JUANG, CH: Determining relative density of sands from CPT using fuzzy sets, 6A537
- Determination of drained friction angle of sands from CPT, 10A690

JUANG, JER-JANG: Analysis-FE combined methodology on transient heat conduction of a finite domain with planar-discrete sources, 12A1246

JUANG, JER-NAN: Identification of linear stochastic systems through projection filters, 1T370
- Designs of learning controllers based on autoregressive representation of a linear system, 8A271

JUANG, JYH-CHING: Observer-based compensators for fixed-order H_∞ control, 12A353

JUANG, PUU-AN: Active control using a fiber-optic interferometric sensor, 7A411

JUBB, J: Structural failures of bulk carriers, 4A826

JUBRAN, BA: Dynamic response of the flow induced vibration of smooth and rough single cantilever circular cylinders, 4A153
- Heat transfer enhancement in electronic modules using ribs and "film-cooling-like" techniques, 11A1221

JUDD, K: Modeling chaotic motions of a string from experimental data, 10A163

JUDD, RL: Fluidelastic instability in a tube array subjected to two-phase R-11 cross-flow, 3A226

JUDICE, J: Discrete linear bilevel programming problem, 12T348

JUDY, JW: Magnetic microactuation of polysilicon flexure structures, 5T351

JUHARTONO: Life test of ceramic ball bearings by staircase method, 7T476
- Life test of ceramic ball bearings by staircase method (Japanese), 7A1002

JUHL, CO: Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, 6A1332

JUKER, D: Correcting trunk-muscle geometry obtained from MRI and CT scans of supine postures for use in standing postures, 8A1415

JUKIC, D: Method for solving the parameter identification problem for ordinary differential equations of the second order, 7A61

JULIEN, PY: Sand-dune geometry of large rivers during floods, 1T979
- Point bar deposits in narrow sharp bends, 12T1028

JULLIEN, A: Determination of tribological history and wear through visualization in lubricated contacts using a carbon-based composite, 12A880

JUMARHON, B: Mathematical model of a biosensor, 12A454

JUMPER, EJ: Quantification of aero-optical phase distortion using the small-aperture beam technique, 4A1132
- Modified, discrete-vortex method for studying wing-loading effects on wake dynamics, 7A1156

JUN, J: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704

JUN, KYUNG H: Acoustic scattering from a circular aperture in a thick hard screen, 3A269

JUN, S: Overview and applications of the reproducing Kernel Particle methods, 9A22

JUN, YD: Flow characteristics in boundary-layer bleed slots with plenum, 8A947

JUNEK, M: Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, 2T894

JUNG, DW: Improved method for the application of blank-holding force considering the sheet thickness in the deep-drawing simulation of planar anisotropic sheet, 3A598
- Dynamic explicit-rigid-plastic FE formulation and its application to sheet metal forming processes, 9A701

JUNG, G-H: Combination of the Lanczos algorithm with the substructure technique, 3A111

JUNG, GIL-HO: Generalized Newton-Raphson method using curvature, 2A57

JUNG, MY: Hybrid-type active vibration isolation system using neural networks, 11A155

JUNG, SI YOUNG: Analysis of a short squeeze-film damper operating with electrorheological fluids, 2A1059

JUNG, T: Interfacial shear strength of oxide films on carbon fibers formed by the sol-gel process, 3A698
- Measurement of tooth displacements and mouthpiece forces during brass instrument playing, 4A1370

JUNG, YOON: Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, 6A1035

JUNGHANS, P: Application of the L_{CR} ultrasonic technique for evaluation of post-weld heat treatment in steel plates, 2A697

JUNGHANS, R: Friction and wear of highly stressed thermoplastic bearings under dry sliding conditions, 12A889

JUNGOWSKI, WM: Effects of flow pulsation on a single-rotor turbine meter, 9A1248

JUNKINS, JJ: Eigenvector derivatives for mechanical second-order systems, 1A81

JUNKINS, JL: Principal rotation representations of proper N × N orthogonal matrices, 4A130

JUNYI, L: Theoretical and experimental study of U-shaped trough shell of aqueduct, 2A477

JUNZHENG, PAN: Chain-paddle driving mechanism and its pull prediction, 5A546

JUPILLE, J: Contribution of the van der Waals forces to the work of adhesion at metal-oxide interfaces, 11A843

JURADO, F: One-dimensional layered media - Part 2: Layer-based waveform inversion, 3A191
- One-dimensional media - Part 1: 3D elastic modeling, 3A192

JURADO, M: Statistical distribution of the clearness index with radiation data integrated over five minute intervals, 5A1358

JURIC, D: Front-tracking method for dendritic solidification, 6A1120

JURUKOVSKI, D: Energy absorbing elements in regular and composite steel frame structures, 1A1395

JUSSEL, P: Fracture mechanical behavior of aggregate-cement matrix interfaces, 3A719

JUSTO, JL: Three-dimensional joint elements applied to concrete-faced dams, 2A780

JUTTLER, B: CAD with spatial rational B-spline motions, 12A971

JUVKAM-WOLD, HC: Effect of wellbore curvature on tubular buckling and lockup, 5A1344
- Buckling and lockup of tubulars in inclined wellbores, 5A1343

JYOTSNA, R: Multigrid calculation of steady, viscous flow in a triangular cavity, 3A956

K

KAASSCHIETER, EF: Mixed FEs for accurate particle tracking in saturated groundwater flow, 2A1256

KABASHIMA, S: Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), 4A818

KABDI, Z: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098

KABEI, N: Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, 12A435

KABELE, P: Analytical model for fracture behaviors of pseudo strain-hardening cementitious composites, 9A740

KABEYASAWA, T: Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, 3A777

KABIR, HRH: Shear-locking free robust isoparametric three-node triangular FE for moderately-thick and thin arbitrarily laminated plates, 1A633
- Fourier solution to higher order theory based laminated shell boundary-value problem, 2A444
- Analysis of simply supported shear-flexible transversely isotropic (ATJ graphite) moderately-deep cylindrical panels, 5A506
- Boundary value problems of moderately thick shallow cylindrical panels with arbitrary lamination, 9A592

KABOV, OA: Experimental study of R-11 and R-12 film condensation on horizontal integral-fin tubes, 8A1137

KABURAKI, O: Resistive-MHD winds from rapidly rotating stars, 3A982

KABZA, Z: Mathematical modeling in measurements of unsteady flows with ultrasonic flowmeters, 1A984

KACHELMYER, CR: Mechanism of structure formation during combustion synthesis of titanium silicides, 7A1333

KACHURIN, LG: Influence of the surface liquid film on cylinder icing under marine conditions, 11A1441

KACZMAREK, LM: Modeling of bed shear stress under irregular waves, 9A1183
- Nonlinear effects of waves and currents on moveable bed roughness and friction, 9A1057

KACZOREK, T: General response formula, local reachability and local controllability of a class of 2D bilinear systems, 1A366
- U-reachability and U-controllability of 2D Roesser model, 1A369
- Generalized 2D continuous-discrete linear systems with delays, 1A367
- Stabilization of linear descriptor systems by state-feedback controllers, 10A432

KACZYNSKI, A: Stressed state of a laminated elastic composite with a thin linear inclusion, 7A841

KADAKAL, U: Comparative study on the identification methods for the autoregressive modeling from the ambient vibration records, 5T169

KADALBAJOO, MK: Boundary element method for elliptic differential equations with a small parameter, 1A52

KADAMBI, JR: Laser vibrometry measurements of rotating blade vibrations, 5A159

KADANOFF, L: Viscous subrange determines inertial range properties in turbulence shell models, 4A1088

KADER, BA: Second moments, spectra and correlation functions of velocity and temperature fluctuations in the gradient sublayer of a retarded boundary layer, 4A1021

KADIANAKIS, ND: Kinematics of continua and the concept of connection on classical space-time, 7A1

KADINSKY-CADE, K: Reexamination of the Bucaramanga, Columbia, earthquake nest, 6A1230

KADIOGLU, F: Mixed FE solution of circular beam on elastic foundation, 12A585

KADIOGLU, S: Indentation of a cantilever beam or plate, 8A615

KADIVAR, MH: Double mapping of isoparametric mesh generation, 8A54

KADOTANI, K: Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), 12A554

KADOWAKI, S: Data analysis and form evaluation for CMM (Japanese), 2T336
- Numerical analysis on instability of cylindrical flames, 5A1223

KADUCHAK, G: Traveling-wave decomposition of surface displacements associated with scattering by a cylindrical shell: Numerical evaluation displaying guided forward and backward wave properties, 5A275

KAEMPFFER, F: Tension of conductor under concentrated loads, 5A131

KAFKA, V: Non-local energetic strength criterion applied to steel elements in combined tension and bending, 11A500

KAFOUSSIAS, N: Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium, 2T1099

KAFTORI, D: Mechanistic model for heat transfer from a wall to a fluid, 7A1205

KAGAMI, S: Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379

KAGAWA, K: Application of mechatronics for rice milling machines (Japanese), 1T434

KAGAWA, Y: Finite element simulation of dynamic responses of piezoelectric actuators, 10A492

KAGE, K: Study on two-phase flow instability in parallel multi-channels, 7A1116

KAHN, M: Flaw detection in d_{33} mode multilayer ceramic actuators using impedance-frequency scans, 11A709

KAHRAMAN, A: Steady state forced response of a mechanical oscillator with combined parametric excitation and clearance type nonlinearity, 2A143

KAHRAMAN, R: Influence of fiber-matrix bond strength on the performance of nicalon-CAS-II composite, 12A546

KAHVAND, H: Comparison of optical and mechanical measurements of second normal stress difference relaxation following step strain, 1A959

KAIBARA, M: Rheological approach to the analysis of blood coagulation in endothelial cell-coated tubes: Activation of the intrinsic reaction on the erythrocyte surface, 2T1299
- Rheology of blood coagulation, 10A1045

KAIGLE, A: In vivo measurement of spinal column viscoelasticity: An animal model, 2T1308

KAILA, KL: Direct method of calculating interval velocities and layer thicknesses from wide-angle seismic reflection times, 10A1426

KAILASANATH, K: Numerical simulation of particle transport in planar shear layers, 6A939
- Numerical simulations of flow modification of supersonic rectangular jets, 10A1163
- Simulations of particle dynamics in a confined shear flow, 11A934

KAILASH: Anharmonic properties of alkali halides and cyanides, 9A485

KAILASNATH, P: Refined similarity hypotheses for passive scalars mixed by turbulence, 2A992

KAISER, M: PIV measurements in multiphase flow with nominally high concentration of the solid phase, 7T1095

KAISER, R: Towards a poloidal magnetic field theorem (German), 31T978

KAIZU, K: Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, 7A253

KAIZU, T: Correction method of erroneous vectors in PIV, 5T1111

KAJI, N: Micro shock sensor (Japanese), 9T442

KAJI, S: High-Speed Jet Flows - 1995 ASME/JSME Fluids Eng Conf, 2N40

- Analysis of unstarted supersonic flutter in cascade by semiactuator disk theory, 1T262
- Analysis of aerodynamic noise by distributed monopole method, 7T323
KAJI, Y: Proposal of grain boundary damage parameter (Japanese), 4A692
- Estimation of creep buckling deformation under external pressure at elevated temperature, 10A638
KAJITA, Y: Geometric axis bending strength of double angle beams, 12A588
KAJITANI, M: Design of wire parallel mechanism, 9A1028
KAJIURA, S: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
KAJIWARA, I: Integrated optimum design of structure and H^{∞} control system, 6A717
KAJIWARA, Y: Study on the limit state design method for tunnel linings (Japanese), 4A823
KAKAC, S: Analysis of unsteady forced convection in turbulent duct flow, 1A1172
- Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, 2A1109
- Dynamic instabilities of boiling two-phase flow in a single horizontal channel, 4T1179
KAKADJIAN, S: Analysis of the mechanics for drawing polyvinyl chloride tubes over an expanding mandrel, 9A699
KAKAZU, Y: Tool failure detecting by ID3, 3A626
- Theoretical discussion on swept-volumes of moving solid objects (japanese), 3A421
- Autonomous driving of multiple AGVs for FMS by use of SLA (Japanese), 9A449
KAKEMI, M: Mathematical model for tensile behavior of hybrid continuous fiber cement composites, 1A542
KAKINO, Y: Study on the extension of the grinding conditions database: Learning and prediction by the linear model (Japanese), 7A755
- Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
- Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
KAKODKAR, A: Chaotic response of a composite plate, 1A161
KAKOGIANNOS, NB: Acoustic scattering from a sphere of small radius coated by a penetrable one, 5A267
KAKUNAI, S: Profile measurement using a liquid crystal projector: Measurements of surface with locally different reflectivity, 9T875
KAKUTA, Y: Quantitive evaluation of shear strength of concrete beams reinforced with FRP rods (Japanese), 2A761
- Proposal on the formula to evaluate the force due to creep and shrinkage of the prestressed concrete structure (Japanese), 2T768
- Shear strength of prestressed concrete beams with FRP tendon (Japanese), 2A770
- Study on practical design method for shear of reinforced concrete slabs loaded near free edge (Japanese), 9A925
KALABA, R: Exact control of mechanical systems, 4T343
KALABA, RE: Analytical Dynamics: A New Approach, 12R3
- Geometry of constrained motion, 1A88
- Obtaining initial parameter estimates for chaotic dynamical systems using linear associative memories, 9A160
KALAGATLA, A: Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints, 12A807
KALAMAS, J: Flow instability in plane-parallel particle beds with constant volumetric heating, 2A1272
KALAMATIANOS, S: Bifurcation behavior of premixed hydrogen-air mixtures in a continuous stirred tank reactor, 7A1304
KALAMKAROV, AL: New model for an aging thermoviscoelastic material, 2T6
KALAPRASAD, G: Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, 7A562
KALAUGHER, PG: Application of photogrammetry in the study of the effects of sailboard fin flexibility, 7A580
KALDA, J: KdV soliton formation and discrete spectral analysis, 10A289
KALDON, SG: Weight function for a single edge cracked geometry with clamped ends, 4A712
KALE, PA: Review of analysis of tube sheets, 10A607
KALENDA, P: Monitoring and analysis of seismicity in the Ostrava-Karvina coal mining district, 3A1306
KALIA, RK: Materials Theory, Simulations, and Parallel Algorithms, Volume 408, 11N32
KALIAKIN, VN: Notes on the behavior of transversely loaded inextensible plates, 5A393
- Finite element analyses of anisotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, 12A1352
KALIDINDI, SR: Longitudinal and transverse moduli and strengths of low angle 3D braided composites, 12A565
KALIN, M: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748
KALININ, AI: Asymptotic optimization of linear dynamical systems with controls of different strengths, 4A348
KALINOWSKI, K: Verification of mathematical models of kinetics of batch flotation, 9A1411
- Transport delay in mathematical models of batch coal flotation kinetics, 9A1410
KALISZKY, S: Elastoplastic analysis with limited plastic deformations and displacements, 7A531
- Identification of bilinear material models of nonlinear beams on nonlinear foundation, 10A600
KALITZOVA-KURTEVA, PG: Unsteady heat transfer in a liquid film on a rotating disk, 9A1254
KALJEVIC, I: Treatment of distributed sources in the stochastic BEM, 5A49
- Three dimensional structural analysis by the integrated force method, 5A726
- Completed Beltrami-Michell formulation for analyzing mixed boundary value problems in elasticity, 6A376
- Development of FEs for 2D structural analysis using the integrated force method, 9A53
- Stochastic BEM: Random excitations and time-domain analysis, 10A61
KALKER, JJ: Discretely supported rails subjected to transient loads, 7A185
KALKERT, RE: Wood-floor vibration design criteria, 1A897
KALKHORAN, IM: Measurements of supersonic wing tip vortices, 3A987
- Effect of shock strength on oblique shock-wave and vortex interaction, 4A992
KALLAS, PK: Indenter penetration energy and abrasive wear, 6A795
KALLIADASIS, S: Filling flows, cliff erosion, and cleaning flows, 9A293
KALLINDERIS, Y: Hybrid prismatic-tetrahedral grid generation for viscous flows around complex geometries, 7A29
- Hybrid spectral-finite volume method for viscous flows, 9A1067
- Adaptive prismatic-tetrahedral grid refinement and redistribution for viscous flows, 9A1085
- Three-dimensional finite-volume method for the Navier-Stokes equations with adaptive hybrid grids, 12A1064
KALLIVAYALIL, JA: Method for thermo-mechanical analysis of steady-state dynamic crack growth, 8A673
KALLMEYER, AR: Constant and variable amplitude fatigue behavior and modeling of an SRIM polymer matrix composite, 1A748
KALMAN, H: Performance and optimum dimensions of different cooling fins with a temperature-dependent heat transfer coefficient, 8A1197
KALONI, PN: Nonlinear stability of convection induced by inclined thermal and solutal gradients, 2A1097
- Comments on the solutions of boundary value problems in non-Newtonian fluid mechanics, 9A1037
KALOS, F: Entrainment and mixing in vertical buoyant light-gas plumes, 8A1244
KALOTAS, TM: Theoretical investigation of sound transmission through periodic multilayer loss-free fluid media, 11A253
KALOUST, J: Robust guaranteed cost control of uncertain nonlinear robotic system using mixed minimum time and quadratic performance index, 2T316
- Attentuation of nonlinearly state-dependent uncertainties: Robust control design and its application to robotic manipulators, 8A298
KALPAKIDIS, VK: Dynamical theory of thermoelastic dielectrics with polarization inertia, 11T1247
KALPAKJIAN, S: Hydrodynamic machining of fiber-reinforced composites, 11A594
KALS, HJJ: Integration of quality control and shop floor control, 8T369
- Process model for air bending, 10A698
KALUARACHCHI, J: Stochastic analysis of multiphase flow in porous media - I: Spectral-perturbation approach, 2T1219
KALUARACHCHI, JJ: Stochastic analysis of two-phase flow in porous media - II: Comparison between two perturbation and Monte-Carlo results, 3A1257
- Stochastic analysis of two-phase flow in porous media - I: Spectral-perturbation approach, 3A1256
KALUMUCK, KM: Bubble dynamics fluid-structure interaction simulation by coupling fluid BEM and structural FEM codes, 5T921
KALVAKAALAVA, R: Microstructural and phase characteristics of phosphogypsum-cement mixtures, 7A547
KALYUKH, YI: Analysis of necessary condition of looping in towed systems, 9A567
KAM, TY: Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, 4A509
- Impact analysis of shear deformable laminated composite plates, 5A472
KAMADA, M: Identification of acoustic-vibratory system by acoustic measurement, 6A272
KAMAKURA, K: Effect of the temperature dependence of fluid properties on the migration of an interface in double diffusive natural convection, 2A1164
KAMAL: Triggering by aftershocks by the free oscillations of the Earth, 11A1358
KAMAL, A: Application of noncircular primary-air inlet geometries in the inshot burners of residential gas furnaces, 8A1281
KAMANO, T: High performance positioning technique under intelligent control (Japanese), 7T417
KAMAT, SV: Mixed mode I-II fracture toughness of 2034 aluminum alloys, 5A632
- Effect of aging on mixed-mode I-III fracture toughness of 2034 aluminum alloys, 8A671
- Effects of notch root radius on crack initiation and growth toughnesses of a cross-ply Ti-6Al-4V-SiC composite, 9A529
KAMATA, M: Heat transfer from a hot rock to water flowing through a crack, 4A1170
- Spectrum analysis by autoregressive methods: Performance on application to stationary signals, 12A66
KAMATA, T: Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), 5A127
KAMBA, GM: Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), 10A1236
KAMEDA, H: Very low cycle failure process of steel angle members, 7A929
KAMEDA, M: Propagation of shock waves in dilute bubbly liquids: Governing equations, Hugoniot relations, and effect of slippage between two phases, 11T208
KAMEDA, T: Unstable propagation of a phase transition in a solid, 4A1322
KAMEI, T: Influence of soil type on collapse settlement of compacted soils during inundation (Japanese), 10A654
KAMEMOTO, K: Individual Papers in Fluids Engineering - 1995 ASME/JSME Fluids Eng Conf, 1N31
KAMENETSKIY, VA: Method for construction of stability regions by Lyapunov functions, 2A250
KAMENETSKY, VF: Gaseous flow originated by a gunshot - I:, 9T1110
KAMESWARA RAO, CVS: Effect of resin modification on friction and wear of glass phenolic composites, 12A882
KAMEYAMA, K: Estimation of the stress distribution in metal using nonlinear acoustoelasticity, 1A852
KAMEZAWA, M: Numerical analysis of developing turbulent structure in a trapezoidal open channel flow by using Reynolds stress model (Japanese), 6A957
KAMI, Y: Comparison of positioning resolution of feed drive devices for ultra-precision machine tools (Japanese), 9A704
KAMIJO, K: Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, 12A1023
KAMIL, M: Experimental study of heat transfer to boiling binaries in a roboiler tube, 7A1233
KAMIN, R: Development of an aviation fuel thermal stability test unit, 5A1243
KAMINER, II: Integrated aircraft-controller design using linear matrix inequalities, 8T329
- Design of an autoland controller for an F-14 aircraft using H_{∞} synthesis, 11A323
KAMINSKA, E: Interfacial reactions between thin films of zinc and (100) InP, 6A821
KAMINSKI, D: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 13, 3N44
KAMINSKI, DA: Numerical and experimental analysis of combined convective and radiative heat transfer in laminar flow over a circular cylinder, 2A1135
KAMINSKI, M: Influence of raised temperatures on strength and deformability of concrete, 1A906
- Homogenization in elastic random media, 10A594
KAMINSKI, PC: Approximate location of damage through the analysis of natural frequencies with artificial neural networks, 4A695
KAMINSKY, AA: Temperature stresses near cracks in elastic plate weakened with two holes (Russian), 3A684
- Slip line at the cut end on the interface of different media (Russian), 7A572
- Long-term failure of cylindrically anisotropic viscoelastic material with a crack under variable load, 7A777
- Long-term crack-resistance of orthotropic viscoelastic plate under uniaxial loading, 9A808
KAMINSKY, AO: Experimental study of distribution of plastic deformations around the crack Apex under statical loading, 7A821
KAMINSKY, J: Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, 6A1317
KAMISAKA, S: Formulation of pre-extension in a practical stress-relaxation measurement of the plant cell wall, 6A1340
KAMISHIMA, Y: Mutual interference of two surface cracks in a semi-infinite body due to rolling contact with frictional heating by a rigid roller, 7A812
KAMIURA, M: Asphalt pavement structural design for railway container yards (Japanese), 2A528
KAMIUTO, K: Simultaneous heat and mass transfer in packed bed catalytic reactors, 1A1220
- Two-parameter wideband spectral model for the absorption coefficients of molecular gases, 1T1268
- Combined laminar forced convection and nongray-radiation heat transfer to carbon dioxide flowing in a nonblack, plane-parallel duct, 4A1214
- Characterization of carbon particulates in diffusion flames, 7T1314
- Approximate method for combined forced-convection and radiation heat transfer in absorbing and emitting gases flowing in a black, plane-parallel duct, 10T1302
- Fully-developed forced-convection heat transfer in cylindrical packed beds with constant wall heat fluxes, 11T1154
KAMIYA, K: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877
KAMIYA, N: Adaptive BEM for plane quasi-harmonic equation: Application to stress analysis of shaft, 4A537
- Boundary-type sensitivity analysis scheme based on indirect Trefftz formulation, 5A44
- Trefftz method: An overview, 5A53
- Extension of the adaptive BE scheme for the problem with mixed boundary conditions, 8A59
- New boundary-type scheme for sensitivity analysis using Trefftz formulation, 11A60
KAMIYA, S: New stage system for step-and-repeat scanning stepper (Japanese), 7T424
- Prediction of the fracture strength of notched continuous fiber-reinforced laminates by interlaminar crack extension analysis, 9A821
KAMIYA, Y: Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), 1A428
KAMIYAMA, M: Spectral characteristics of strong ground motions in terms of peak values, 9A1395
KAMIYAMA, S: Steady flow past a circular cylinder coated with magnetic fluid: Flow structure, drag reduction, and coating deformation, 1A1095
- Bubble behavior in magnetic fluid under a nonuniform magnetic field, 1T1092
- Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, 7A1147
KAMIYAMA, S-I: Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, 7T1143
KAMMER, DC: Selection of component modes for Craig-Bampton substructure representations, 10A240
- Optimal sensor placement for modal identification using system-realization methods, 11T330
- Chaos in a spacecraft attitude maneuver due to time-periodic perturbations, 12A268
KAMO, T: Development of new ultrasonic dressing equipment (Japanese), 1A735
KAMOTANI, Y: Thermocapillary convection experiment in microgravity, 3A1046
- Thermosolutal transport phenomena in large Lewis number electrochemical systems, 5A1204
- Oscillatory convection due to combined buoyancy and thermocapillarity, 6A1086
- Effects of heating mode on steady axisymmetric thermocapillary flows in microgravity, 8A1107
KAMVYSSAS, G: Point source excitation in direct and inverse scattering: The soft and the hard small sphere, 1A328
KANAGASABAPATHY , H: Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, 5A516
KANAGAWA, T: Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), 7T712
- Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), 7T779
KANAGAWA, Y: Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), 7A796
- Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), 9A826
- Fatigue life prediction of CFRP using evolution of creep property (Japanese), 12A535
KANAI, A: Development of ultra-precision machine tools with high-stiffness (Japanese), 7T737
KANAI, H: Negative thixotropy in ferric-oxide suspensions, 1A965
KANAI, K: Pole placement in optimal regulator by continuous pole-shifting, 4A356
- Pole assignment for optimal regulators with a nonnegative definite weighting matrix, 12T356
KANAI, S: Study on virtual reality of NC programming for free-form surfaces (Japanese), 7T748
KANAKA RAJU, K: Thermal post-buckling of linearly tapered moderately thick isotropic circular plates, 4A576
- Effect of localized axisymmetric damages on the buckling of circular plates, 4A573

- Thermal buckling of circular plates with localized axisymmetric damages, 12A1276
KANAMORI, H: Continuous monitoring of seismic energy release associated with the 1994 Northridge earthquake and the 1992 Landers earthquake, 11A1363
KANAMORI, HIROO: Moment-tensor inversions for local earthquakes using surface waves recorded at TERRAscope, 2A1231
KANARACHOS, AE: Parallel block adaptive multigrid method for the implicit solution of the Euler equations, 8A885
KANASEWICH, ER: Numerical seismograms obtained using ω-k integrals, for a point P source in a vertically inhomogeneous anelastic model, 12A1366
KANAUN, SK: Elastic and thermoelastic properties of composites reinforced with short axisymmetric fibers, 1A538
- Elastic properties of polymer systems reinforced with short organic fibers, 12A542
KANAYAMA, M: Mathematical expression of 3D configuration of the scoliotic spine, 11A1455
KANAZAWA, K: Evaluation of surface using an ultra-microhardness tester to measure depth of concavity - 1st Report: Influence of radius of indenter tip and comparison with the classical method of measuring concavity optically (Japanese), 9A862
- Evaluation of surface by an ultra-microhardness tester to measure depth of concavity - 2nd Report: Verification of R-correction at indenter tip and shallowing correction of concavity, using FEM simulation (Japanese), 11T703
KANCEVICH, V: Small diameter blood vessel prostheses, 6A1357
KANCH, AK: Hall effects on hydromagnetic flow past an eccentrically rotating porous disk in a rotating fluid, 11A1008
KANDA, J: Normalized failure cost as a measure of a structure importance, 9A904
KANDA, T: Experimental studies of supersonic film cooling with shock wave interaction, 7A1096
- Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), 12A687
KANDARPA, S: Reliability analysis of structural components utilizing the strain-life method, 8A601
KANE, B: Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
KANE, JH: Shape design sensitivity analysis via material derivative: Adjoint variable technique for 3D and 2D curved BEs, 1A879
KANE, M: Optical characterization of laser-matter interaction: The welding application, 4T874
KANE, TR: Estimation and control of tethered satellite systems, 1T391
KANEDA, K: Mathematical expression of 3D configuration of the scoliotic spine, 11A1455
- Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, 11A1453
KANEDA, Y: Effect of interaction of rodlike particles in semi-dilute suspensions under shear flow, 2A920
- Singularity formation in 3D motion of a vortex sheet, 4T1064
KANEEDA, T: Fundamental study on electric field assisted biomachining (Japanese), 11A620
KANEHIRO, F: Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379
KANEKAL, S: Charged-particle telescope experiment on Clementine, 5A739
KANEKO, K: Plastic constitutive model for anisotropic hardening metals, 3A461
KANEKO, O: Development of cryosorption pump ficle telescope experiment on Clementine, 5A739
KANEKO, K: Plastic constitutive model for anisotropic hardening metals, 3A461
KANEKO, O: Development of cryosorption pump for neutral beam injector, 11A1051
KANEKO, R: Experimental investigation on tunnel sonic boom, 3T208
- Microtribological applications of probe microscopy, 3A838
- Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, 5T789
- Physical meandings of $A/Q_{ij}0$ and $\sigma/Q_{ij}0$ in molecular gas film lubrication problems, 10T1109
KANEKO, S: Fluid-Structure Interaction and Structural Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N14
KANEKO, T: Effects of heat treatment on the creep crack growth of alloy 800H possessing long service history, 4A687
- New internal finishing process by applying magnetic abrasive finishing through the use of the pole rotation system: Processing principle with a few finishing characteristics, 9T733
KANEKO, Y: Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, 5A811
KANELLAKOPOULOS, I: Speed tracking and vehicle follower control design for heavy-duty vehicles, 9A430
KANEMARU, K: Approximate method for combined forced-convection and radiation heat transfer in absorbing and emitting gases flowing in a black, plane-parallel duct, 10T1302
KANEMATSU, W: Effect of grinding on fatique behavior of ceramics at ambient temperature, 3A628
KANESO, H: Superfinishing of fine ceramics: Influence of grain size on finishing performance (Japanese), 9A739
KANESTROM, RK: Maximum power absorption with active struts, 1T410
KANG, BL: Determination of necking zone using laser speckle, 10A853
KANG, BS: Holography experiments in a dense high-speed impinging jet spray, 8A934
KANG, BYUNG HA: Performance analysis of a metal-hydride heat transformer for waste heat recovery, 12A1434
KANG, DING: Corrections for frequency, amplitude and phase in a fast Fourier transform of a harmonic signal, 11A63
KANG, FENG: Volume-preserving algorithms for source-free dynamical systems, 3A72
KANG, JEONG HOON: Free vibration analysis of membranes using wave-type base functions, 10A169
KANG, JIAN: Acoustics in long enclosures with multiple sources, 7A346
- Improvement of the STI of multiple loudspeakers in long enclosures by architectural treatments, 9A341
KANG, JUN-GILL: Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, 12A1300
KANG, K-H: Modal properties of beams and plates on resilient supports with rotational and translational complex stiffness, 7A187
KANG, KIJUN: Static analysis of a curved shaft subjected to end torques, 8A483
KANG, KJ: Machining of sintered bronze, 4A638
- Measurement of residual stresses in a circular ring using the successive cracking method, 10A556
- Vibration and buckling analysis of circular arches using DQM, 11A132
KANG, LIM-SEOK: Temperature effects on flocculation kinetics using FE(III) coagulant, 6T941
KANG, SH: Conjugate heat transfer and particle transport in outside vapor deposition process, 1A1165
- Measurement of transitional boundary layer on a flat plate using a computational Preston tube method, 5A928
KANG, SHENG-LIANG: Singular perturbation for the buckling of a truncated shallow spherical shell with the large geometrical parameter, 1A667
KANG, SK: CAD approach to helical groove machining - I: Mathematical model and model solution, 3A617
- Helical micro-drill point design and grinding, 5A577
KANG, SUK-BONG: Directional continuous casting process and its application to Al-1% alloy, 7A1248
KANG, SUNG KWON: Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, 12A1300
KANG, W: Visualization of formaldehyde distribution above platinum plate catalyst by using LIF method, 8A1046
KANG, WEIZE: Exact stiffness matrix for a beam element with axial force and shear deformation, 11A33
KANG, YEON JUNE: Finite element model for sound transmission through foam-lined double-panel structures, 10A352
KANG, YH: Analysis of flow and heat transfer in twin-roll strip casting by FEM, 5A559
KANG, YJ: Sound transmission through multi-panel structures lined with elastic porous materials, 10A350
KANG, YONGLIN: Large deformation FE analysis of cylindrically bending of metal strips (Chinese), 11A12
KANG, YOUNG KYU: Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, 9A195
KANKAM, JA: Nonlinear FE analyses of RC skewed slab bridges, 1A890
KANNBERG, L: Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL, 1N36
KANNENBERG, KC: Monte Carlo computation of rarefied supersonic flow into a pitot probe, 6A935
KANNING, G: Simulation of the dynamics of helicopter slug load systems, 6A1041
KANO, I: Dynamics of laser-induced bubble in pressurized liquid nitrogen, 11T935
KANOGLU, U: Runup of solitary waves on a circular island, 4A261
KANOH, M: Basic test on the dynamic strength of R/C square columns under biaxial bending, 11A745
KANTARDGI, I: Water exchange and water quality in the coastal zone in the presence of structures, 7A292
- Groin area water exchange, 12A1021
KANTIEM, K: Reflection of a moving shock wave: Boundary conditions for Monte-Carlo and continuum descriptions, 1A244
KANTOR, C: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474
KANTOR, JC: Residual generation and fault detection for discrete-time systems using an l_{∞} technique, 11A363
KANTOROVICH, II: Microstructural evolution of char under oxidation induced by uneven heating, 9A1329
- Fragmentation of highly porous char particles burning in regime I, 12T1315
KANYANGA, SB: Influence of two-stage loading on the longitudinal splitting of unidirectional carbon-epoxy laminates, 8A650
KANZAKI, K: Efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters, 10A481
KANZIEPER, E: Reflection of waves from a strong scatterer buried in a random medium, 10A259
- Reflection of waves from a strong scatterer buried in a random medium, 11A174
KANZOW, C: Nonlinear complementarity as unconstrained optimization, 6T287
KAO, CJ: Delamination fracture criteria for composite laminates, 4A727
KAO, JY: Study of backlash on the motion accuracy of CNC lathes, 8A555
KAO, KAI-HSIUNG: Advance in overset grid schemes: From Chimera to DRAGON grids, 3A919
KAO, M: Large-scale crystal plasticity computations of microstructural failure modes, 4A456
KAO, PW: Fatigue delamination growth in carbon fiber-reinforced aluminum laminates, 4A730
- Delamination growth and its effect on crack propagation carbon fiber reinforced aluminum laminates under fatigue loading, 8A569
KAPANIA, RK: Shape sensitivity analysis of divergence dynamic pressure, 1T178
- Sensitivity of flutter response of a wing to shape and modal parameters, 3T225
- Nonlinear transient response and its sensitivity using FEs in time, 10A20
- Static, free vibration and thermal analysis of composite plates and shells using a flat triangular shell element, 10A178
- Free vibration of thick generally laminated cantilever quadrilateral plates, 12A178
KAPAT, JS: Bouyant pulsating exchange flow through a vent, 3A1032
KAPER, TJ: Simple model of chaotic advection and scattering, 5A895
KAPINSKI, S: Finite element applications to evaluate the stress and strain field in the vicinity of an imperfection in thin shells, 9A609
KAPLAN, T: Evaluation of the anisotropic Green's function in 3D elasticity, 7A516
KAPLANSKI, F: Vorticity distributions for thick and thin viscous vortex pairs and rings, 9A1064
KAPLUNENKO, VG: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417
KAPLUNOV, JD: Long-wave vibrations of a thin-walled body with fixed faces, 1A165
- Synthesis of the dispersion curves for a cylindrical shell on the basis of approximate theories, 2A153
- Elastic-plastic torsion of a Cosserat-type rod, 5A447
KAPLUNOV, YD: Quasifront in the problem of the action of an instantaneous point impulse at the edge of a conical shell, 8A187
KAPOOR, B: Apparent wall slip velocity coefficients in concentrated suspensions of noncolloidal particles, 4A895
KAPOOR, K: Flow and heat transfer due to a buoyant ceiling jet turning downward at a corner, 8A1080
KAPOOR, TK: Spherical coordinate Green's functions for ring tractions in a solid unbounded medium, 3A193
KAPOOR, V: Concentration fluctuations and dilution in 2D periodic heterogeneous porous media, 9A1352
KAPOULITSAS, GM: Collision of rigid bodies, 2A163
KAPRAL, R: Collision dynamics of fronts in the Kortewog-de Vries-Burgers equation, 6A193
KAPSA, P: Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, 12A723
KAR, R: Dynamic properties of a circuit breaker with friction-based seismic dampers, 11A1403
KAR, RC: Free vibration analysis of rectangular Mindlin plates with elastic restraints uniformly distributed along the edges, 11A114
- Parametric instability of a symmetric sandwich beam with higher order effects, 12A615
- Parametric instability of multi-layered sandwich beams, 12A189
KARABALIS, DL: Dynamic 3D soil-railway track interaction by BEM-FEM, 1A1387
KARABINIS, AI: Strength and ductility of rectangular concrete columns: A plasticity approach, 8A753
- Plasticity computations for the design of the ductility of circular concrete columns, 12A846
KARABIS, A: Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium, 2T1099
KARABULUT, H: SH wave propagation by discrete wavenumber boundary integral modeling in transversely isotropic medium, 11A1354
KARABUTOV, AA: NDE of fatigue changes of composite structure by laser ultrasonic method (Russian), 1A854
KARADAN, VK: Active control of sound transmission through a plate using a piezoelectric actuator and sensor, 7A347
KARADENIZ, S: Parametric study of stress sources in journal bearings, 12A961
KARAFILLIS, AP: Tooling and binder design for sheet metal forming processes compensating springback error, 7A734
KARAGEORGHIS, A: Fully conforming spectral collocation scheme for second- and fourth-order problems, 4A72
- Numerical solution of the 3D buoyancy driven cavity problem by a pseudospectral method, 7A1091
- High performance solution of partial differential equations discretized using a Chebyshev spectral collocation method, 12A62
KARAGIANNIS, F: Arbitrary blade section design based on viscous considerstions: Blade optimization, 12A1180
- Arbitrary blade section design based on viscous considerations: Background information, 12A1179
KARAGIOZOV, V: Chaotic phenomena in the dynamic buckling of an elastic-plastic column under an impact, 7A103
KARAGIOZOVA, D: Observations on the dynamic elastic-plastic buckling of a structural model, 1A676
- Note on the inertia and strain-rate effects in the Tam and Calladine model, 1A214
- Chaotic phenomena in the dynamic buckling of an elastic-plastic column under an impact, 7A103
KARAGOZIAN, AR: In-flight imaging of transverse gas jets injected into compressible crossflows, 4A1051
KARAHALIOS, GT: Steady flow in a curved pipe with a coaxial core, 12A1123
KARAJANI, P: Balancing of rotating machines by influence coefficients with the help of numerical models (French), 7T177
- Rotating machines determination of influence coefficients from modal characteristics (French), 7A178
KARAKI-DOY, T: High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
KARAMANOS, SA: Effects of external pressure on capacity of tubular beam-columns, 3A814
- Tubular members - Part I: Stability analysis and preliminary results, 6A503
- Tubular members - Part II: Local buckling and experimental verification, 6A504
KARAMAVRUC, AI: Numerical uncertainty in heat conduction calculations for a tube immersed in a fluidized bed, 4A1212
- Modeling of the transient heat transfer across a heat transfer tube in a bubbling fluidized bed, 8T1315
KARAMIS, MB: Evaluation of the wear behavior of dual-phase low carbon steel, 12A903
KARAMYSHKIN, VV: Placement of passive and vibroactive objects on a floor, 10A154
KARAN, B: Experiments with fuzzy logic application to robot control with model-based dynamic compensation (Russian), 3A401
KARAOGLAN, L: Dynamic sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, 5A193
- Assessment of temporal integration schemes for the sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, 12A944
KARAPETYAN, AV: Motion of cross-shaped bodies, 10T76
KARASAKI, K: Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
KARAYANNIS, CG: Numerical approach to steel fiber reinforced concrete under torsion, 3A779
KARBALEVICH, NA: Holographic interferometry study of heat and mass transfer of liquid media in capillaries, 10A1357
KARBASSI, SM: Effect of sampling period on the behavior of systems incorporating state feedback, 8T293
KARBHARI, VM: Use of composites for rehabilitation of steel structures - Determination of bond durability, 3A514
- Influence of reinforcing layer orientation on impact response of plain weave RTM composites, 4A499
- Inelastic energy curves: A tool for evaluating the impact response of composite plates, 4A523
- Notes on the modeling of preform compaction - I: Micromechanics at the fiber bundle level, 7A573
- Investigation of bond between concrete and composites: Use of a peel test, 8A668
KARCHEVSKII, AM: Conception and choice of project parameters of transport wing-in-ground effect craft, 8A1007
KARCHEVSKII, VI: Parametric synthesis of mechanisms with allowance for sliding friction, 3A847
KARCZEWSKA, A: Foias statistical solution for stochastic Navier-Stokes equation, 10T59
KARDAS-CINAL, E: Influence of riding speed on vehicle track-system dynamics in the presence of track random irregularities, 3A160
KARDOMATEAS, GA: Introduction to Fatigue in Metals and Composites, 9R11

- Buckling of thick orthotropic cylindrical shells under combined external pressure and axial compression, 3A553
- Micromechanical model for the fiber bridging of macro-cracks in composite plates, 9A549
- Growth behavior of internal delaminations in composite beam-plates under compression: Effect of the end conditions, 10A795

KAREEM, A: Surge response statistics of tension leg platforms under wind and wave loads: A statistical quadratization approach, 6A219

KARGER, A: Classification of serial robot-manipulators with nonremovable singularities, 12A442

KARGER-KOCSIS, J: Effects of fiber-matrix adhesion on off-axis mechanical response in carbon-fiber-epoxy resin composites, 2A418
- Comparison of the fracture and failure behavior of polypropylene composites reinforced by long glass fibers and by glass mats, 2A642
- Effects of processing conditions and interphase of modification on the fiber-matrix load transfer in single fiber polypropylene composites, 3A495
- Low-energy Charpy impact of interleaved CF-EP laminates - Part I: Effects of interleaving on stiffness degradation, 4A732
- Failure mode in dry and hygrothermally aged short fiber-reinforced injection-molded polyarylamide composites by acoustic emission, 12A753

KARIHALOO, BL: Minimum cost design of RC frames using the DCOC method - Part I: Columns under uniaxial bending actions, 2A757
- Minimum cost design of RC frames using the DCOC method - Part II: Columns under biaxial bending actions, 2A758
- Optimum circular shafts in forward precession, 2A115
- Multiple cracks in transformation toughened ceramics, 4A702
- Crack front trapping in transformation-toughened ceramics, 4A723
- Application of DCOC to optimum prestressed concrete beam design, 7A946
- Subsurface and surface cracks under contact loading in transformation-toughened ceramics, 7A586
- Mode I stress singularity and intensity factor at a crack tip terminating at a transversely isotropic-orthotropic bimaterial interface, 9A829
- Pull-out of axisymmetric headed anchors, 10A768
- Minimum cost design of multispan partially prestressed concrete beams using DCOC, 11A725

KARIM, GA: Thermodynamic analysis of the rich flammability limits of fuel-diluent mixtures in air, 5A1122
- Analytical examination of the combustion of a turbulent jet in an environment of air containing a premixed fuel or a diluent, 5A1249
- Investigation of the lean operational limits of gas-fueled spark ignition engines, 12A1329
- Blowout limits of a jet diffusion flame in the presence of small surrounding jet pilot flames, 12A1318

KARIMI, G: Mathematical modeling of solar stills in Iran, 4A1353

KARIMIAN , SMH: Pressure-based control-volume FEM for flow at all speeds, 2A898

KARKI, KC: Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, 10A1083

KARLASH, VL: Electroelastic oscillations of a hollow spherical segment of piezoceramics (Russian), 3A566
- Induced high-frequency vibrations of thin piezoceramic loud discs (Russian), 7A176

KARLSSON, A: Transient electromagnetic wave propagation in transverse periodic media, 11A167

KARLSSON, RI: Anisotropic subgrid modeling, 1T1085

KARLSSON, SES: Computational device for prescribing incident waves to a structure via a Rayleigh-Timoshenko beam, 8A165

KARLSSON, T: Numerical evaluation of plate heat exchanger performance in geothermal district heating systems, 10A1314

KARMAKAR, R: Directional stability of truck-dolly-trailer system, 1A408
- Directional stability of vehicle trailer systems, 7A398

KARMAZSIN, E: Heat transfer modeling in a polymer sample located in a microwave field - II: Transient state, 3A1107

KARN, EL: Three-dimensional reconstruction of coherent structures using image processing techniques, 4T1083

KARNAUKHOV, VG: Resonance contour oscillations of a piezoelectric plate with autoadjusted frequency (Russian), 7A165
- Resonance vibrations of axisymmetrical electromechanical system with AFC (Russian), 7A1030

KARNAWAT, S: Constitutive theory for brittle solids with application to concrete, 7A808

KARNI, E: Retractable spatial structures for swimming pool enclosures, 10A953

KARNI, J: Nonisothermal receivers, 3A1371

KARNI, S: Far-field filtering operators for suppression of reflections from artificial boundaries, 12A305

KARNIADAKIS, GE: New triangular and tetrahedral basis for high-order (hp) FEMs, 4A36
- Unstructured spectral element methods for simulation of turbulent flows, 5A975

KARNOPP, D: Twenty first century transportation system solutions: A new type of small, relatively tall and narrow active tilting commuter vehicle, 11A337

KARNOPP, DC: Optimal control of vehicle random vibration with constrained suspension deflection, 7A404

KAROLYI, G: Identification of bilinear material models of nonlinear beams on nonlinear foundation, 10A600

KARPALA, F: Double pass retroreflection for corrosion detection in aircraft structures, 6A694

KARPEL, M: Structural dynamic loads in response to impulsive excitation, 1A179
- Fictitious mass element in structural dynamics, 8A162
- Ground modal tests of space-structure components using boundary masses, 10A946
- Nonlinear flutter analysis of missiles with pneumatic fin actuators, 11A226

KARPENKO, EI: Mathematical model of the processes of ignition, combustion, and gasification of the pulverized coal fuel in the electric arc devices, 5A1253
- Comparative analysis of plasma and fire technologies of pulverized coal ignition, combustion and gasification using a mathematical model of a chemically nonequilibrium system, 12A1313

KARPENKO, SN: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423

KARPIK, SR: Mixed spectral finite-difference (MSFD) model: Improved upper boundary conditions, 4A51

KARPINSKI, T: Analysis of relationships between plasma nitriding time, thickness of the cases produced, and fatigue strength of steels (Polish), 9T747
- Galerkin's method for multilobe conical bearing with an incompressible Newtonian lubricant, 9A1003

KARPOUZIAN, G: Nonclassical effects on divergence and flutter of anisotropic swept aircraft wings, 9A322

KARPOV, EA: High-strength polyethylene film fibers, 6A460

KARPOVA, GS: Thermomechanical stability of built-up stiffened structures, 10T156

KARPOVA, OB: Determination of heat transfer through a vapor gap at boiling cryogenic liquid in the Leidenfrost regime, 11A1173

KARPUR, P: Free edge effect on residual stresses and debond of a composite fiber-matrix interface, 1A540
- Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, 1A856
- Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, 4A776
- Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, 12A795

KARR, DG: Effects of threshold singularities on a dynamical system with intermittent contact and breakage, 2A82
- Compressive failure of microcracked porous brittle solids, 11A2

KARRA, SB: Kinetic model for formation of aromatics in the high temperature chlorination of methane, 5A1233

KARSAI, J: Asymptotic behavior of solutions of impulsively damped nonlinear oscillator equations, 12A109

KARSENTI, L: Adaptive control of nonlinear systems with nonlinear parameterization, 10T418

KARSHENAS, S: Investigation of structural properties of used formwork stringers, 7A867

KARSTEN, RH: Note on the stability theory of buoyancy-driven ocean currents over a sloping bottom, 8A1360

KARUBE, D: Relationship between the mechanical behavior and the state of porewater in unsaturated soil (Japanese), 10A648

KARUNAKARAN, KP: Geometric modeling of manufacturing processes using symbolic and computational conjugate geometry, 5A383

KARUNARATHNA, H: Numerical experiments on low-frequency fluctuations on a submerged coastal reef, 7T1385

KARUNARATNE, GP: Numerical modeling of negative skin friction on pile groups, 10A687

KARUNASENA, W: Free vibration of cantilevered arbitrary triangular Mindlin plates, 7A158

KARUNASENA, WM: Hybrid analysis of Lamb wave reflection by a crack at the fixed edge of a composite plate, 1A207

KARUR, SR: Orthogonal collocation in the nonconforming BEM, 2T44
- Quasilinear BEM for nonlinear Poisson type problems, 3A48

KARVINEN, R: Combustion-generated NO_x and coke in heavy-residual fuel oil combustion, 8A1254

KASA, Z: Numerical analysis for the effect of surfactants on a circular liquid lens - I, 11T909

KASAB, JL: Quasilinear BEM for nonlinear Poisson type problems, 3A48

KASABA, M: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871

KASAGI, A: Dynamic interactive buckling of ring stiffened composite shells, 3A559
- Dynamic buckling of composite shells, 7A675

KASAGI, N: Three-dimensional particle-tracking velocimetry measurement of turbulence statistics and energy budget in a backward-facing step flow, 6A1002
- Second-moment closure for turbulent scalar transport at various Prandtl numbers, 12A1156

KASAHARA, A: One dimensional nonlinear viscoelastic constitutive equation of bituminous mixture (Japanese), 2A7
- Effect of errors in deflection readings and pavement model on backcalculated layer moduli (Japanese), 6A765

KASAI, M: Failure diagnostic system on air-operated control valves using neural network, 6A354

KASAI, S: Railgun pellet injection system for fusion experimental devices, 4T857
- Fatigue behavior on split tee flange joints (Japanese), 11A831

KASAI, T: High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
- Effect of temperature on rheological property of fresh cement paste in high flowing concrete (Japanese), 9A1038

KASAMORI, M: Evaluation of physical aging on creep deformation of epoxy resin (Japanese), 6A624

KASASHIMA, N: Prediction of spalling on a ball bearing by applying the discrete wavelet transform to vibration signals, 12A726

KASCAK, A: Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, 5A697

KASCAK, AF: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164
- Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, 5A157

KASE, K: Method of collision avoidance for 5-axis control machining using 2D configuration space (Japanese), 7A446
- Extraction of form error features using the Simulated Annealing Method with Bezier Templates (Japanese), 11A713

KASEHAGEN, LJ: Transient extensional viscosity from a rotational shear rheometer using fiber-windup technique, 12A1016
- Rheology of long-chain randomly branched polybutadiene, 12A1012

KASEI, S: Development of optical apparatus for measuring small hole diameter (Japanese), 7A873

KASHIMURA, Y: Study on vibration control of boring tool and recognition of cutting state (Japanese), 7A206

KASHINSKY, ON: Gas-liquid bubbly flow in vertical pipes, 12A1087

KASHIWAGI, T: Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, 4A1184

KASHPERSKY, VS: Experimental study of the effect of boundary conditions on stability of cylindrical shells of glass-reinforced plastic under external pressure, 7A666
- Study of stability of sphere-cylindrical shells of glass reinforced plastic loaded with uniform external pressure, 7A670

KASHTALYAN, MY: Spatial stress-strained state of rectangular orthotropic plates of variable thickness under bending, 7T628

KASINA, Z: Improving the shallow seismic sections by microcomputer automated static corrections, 3A1337

KASINSKI, A: Fast algorithm for hidden faces removal with application to animated geometrical modelers, 1A432

KASIVISWANATHAN, SR: Flexure of a fluid-saturated cuboid, 2A1223

KASPAR, F: LBB project for the new generation of WWER plants and lessons learned from the WWER 440 model 230 LBB project, 3A1360

KASPRZYK, S: Explicit solution formulae for linear distribution differential equations, 9A186

KASSAB , AJ: Stefan and moving front problems, 6A1121

KASSAB, A: Semianalytical polynomial interpolation method for the efficient solution of the radiative heat transfer equation, 1A1275

KASSAB, AJ: Coupled FDM-BEM solution for the conjugate heat transfer problem, 1A1212
- Boundary element method-based pattern search solution for a class of inverse elastostatic problems, 9A100

KASSAB, BG: Analysis of water distribution systems using a perturbation method, 9A1426

KASSAR, MA: Semi-implicit donor cell differencing and the hyperbolic conservation laws having source terms, 12A49

KASSEL, PC: Metal-oxide-silicon capacitor detectors for measuring micrometeoroid and space-debris flux, 1A275

KASSIMALI, A: Large deformation elastic-plastic analysis of space frames, 5A490

KASSIR, MK: Rotatory and horizontal vibrations of a circular surface footing on a saturated elastic half-space, 3A107

KASSNER, K: Dynamical patterns in directional solidification, 11A610

KASSOY, DR: Nonlinear oscillations in a resonant gas column: An initial-boundary-value study, 1A287

KASTEL, J: Consolidation of GF-PP commingled yarn composites, 1A734
- Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, 3A638

KASTEN, F: Linke turbidity factor based on improved values of the integral Rayleigh optical thickness, 9A1421

KASTKA, J: Long term effect of noise protection barriers on the annoyance response of residents, 1A338

KASTRINAKIS, EG: Boundary layer transition induced by a von Karman vortex street wake, 11A541

KASUDA, K: Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), 10A920

KASYANOV, V: Small diameter blood vessel prostheses, 6A1357

KATAFYGIOTIS, LS: Approximate analysis of response variability of uncertain linear systems, 6A115

KATAGIHARA, K: Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293

KATAOKA, S: Evaluation of dynamic interaction effects of 2D dam-foundation-reservoir systems (Japanese), 1A913

KATAOKA, T: Finite element simulation of dynamic responses of piezoelectric actuators, 10A492

KATAYAMA, H: H_{∞}-control with output feedback for time-varying discrete systems, 11A282
- Agile design procedure for a line production system in a versatile market environment, 12T472

KATAYAMA, K: Polygonal deformation of roll-covering rubber, 9A278

KATAYAMA, S: Study on interfacial adhesion between cutting tool and microstructures of free-machining steel, 1A730

KATAYAMA, T: Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), 1A1390
- Statistical analysis of peaks and directivity of earthquake ground motion, 4A1326
- Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
- Influence of water on energy absorption of filament winding ring under lateral impact loading (Japanese), 12A548

KATAYAMA, Y: Numerical solution of water quality equation for rivers (Japanese), 3A887

KATAYAMA-HIRAYAMA, K: Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), 3A1387

KATAYEV, YP: High-tech production of aircraft engines, 6A369

KATEVATIS, D: Comments on mixed-mode fracture in adhesive joints, 10A807

KATHNELSON, AN: Complete asymptotic analogue of Timoshenko's beam vibration equation, 4A147
- Improved engineering theory for uniform beams, 8A477

KATO , S: Nonlinear FE analysis of a reinforced concrete cooling tower shell, 11A531
- Alternative lower bounds analysis of elastic thin shells of revolution, 11A534

KATO, A: Evaluation of fatigue damage in steels using laser speckle sensor: Change of speckle pattern by fatigue (Japanese), 10A855

KATO, H: Improvement of in-situ circularity measurement technique based on three-point method and development of n-point method, 1A859
- Effect of auditory feedback on operating efficiency and fatigue - In the case of manual cut-off turning with virtual lathe (Japanese), 3T619
- Research on simplification of opposed dies shearing process utilizing differential pressure, 12A683

KATO, I: Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, 9A1331

KATO, K: Basic study on a noise barrier for reduction of wind load (Japanese), 9A1431
- Micro-mechanism of friction drive with ultrasonic wave, 12A894

KATO, M: Estimation of the stress distribution in metal using nonlinear acoustoelasticity, 1A852
- Crack growth resistance due to shot peening in carburized gears, 2A672
- Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), 3T436
- Initial temperature evaluation for flash temperature index of gear tooth, 5T821
- Elastic state and orientation of needle-shaped inclusions, 8A383
- Effects of surface treatment on the bending-farch in cutting force variation during primary chatter vibration occurring in plain milling operation, 4A210

- Stress analysis of bimaterial strip with debondings under tension, 10A774
- Relationship between the mechanical behavior and the state of porewater in unsaturated soil (Japanese), 10A648

KATO, T: Effect of thermal distortion on wear of composites, 5A792
- Application of the spline prism method to analyse vibration of thick circular cylindrical panels, 6A152
- Microhardness testing using AFM and SEM, 7T1005
- Improvement in dynamic characteristics of circular journal bearings by means of longitudinal micro-grooves, 8T816
- Equations of motion of vortex-current filaments, 9A1203

KATO, Y: Stationary drift-Rossby vortices of elliptic boundary in a background shear flow, 10A1443

KATOH, K: Macroscopic wetting behavior of a 2D meniscus under a horizontal plate, 1T1004

KATOH, R: Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, 9A397
- Analysis of motion of body center during human stair gait using force plate, 12A1459

KATOH, Y: Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expanded bed surface of a gas fluidized bed: Conditional sampling statistical analysis, 2A1220

KATOK, A: Introduction to the Modern Theory of Dynamical Systems, 2R7

KATRAGADDA, P: A posteriori error estimation and adaptive mesh refinement for combined thermal-stress FE analysis, 10A1344

KATRAMADOS, I: Modeling the role of microstructure on the superplastic behavior of a titanium alloy, 1A511

KATSAREAS, DE: Computation of Mode I and II thermal shock stress intensity factors using a boundary-only element method, 5A1191

KATSEVICH, AI: Approximate inverse geophysical scattering on a small body, 7T67

KATSIKAS, SK: Genetic algorithm for active noise control actuator positioning, 5A278

KATSUBE, N: Constitutive model for thermomechanical response of decomposing composites under high heating rates, 10A566

KATSUI, H: Design method of rip rap scour protection works for pier in fast tidal current (Japanese), 3A813

KATSUKI, S: Safety check method of steel frame check dam by elastic-plastic reliability analysis (Japanese), 9A906

KATSUMATA, A: Comparison of magnitudes estimated by the Japan meteorological agency with moment magnitudes for intermediate and deep earthquakes, 12A1378

KATSURA, M: Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293

KATSUTA, M: General characteristics of two-phase flow distribution in a multipass tube, 9A1257

KATTA, VR: Study of flame stability in a step swirl combustor, 10A1365
- Numerical study of droplet-vortex interactions in an evaporating spray, 11A1182

KATTAN, PI: Damage-plasticity in a uniaxially loaded composite lamina: Overall analysis, 4A725
- Experimental determination of damage parameters in uniaxially-loaded metal-matrix composites using the overall approach, 5A642

KATTI, CP: Convergence of finite difference methods for a class of two-point boundary value problems with periodic boundary conditions, 7T46

KATUL, G: Random sweeping decorrelation hypothesis stratified turbulent flows, 2A987

KATUL, GG: Spatial structure of turbulence at production wavenumbers using orthonormal wavelets, 2A993

KATUMATA, A: Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, 7A874

KATURA, S: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877

KATWAN, MJ: Electrochemical noise technique for the prediction of corrosion rate of steel in concrete, 11A712

KATZ, A: Generating image filters for target recognition by Hebbian neural network learning, 1T73
- Dihedral for spiral stability, 1T1119
- Methodology for integration of digital control loaders in aircraft simulators, 1T411
- Inclination angle effect of carbon fibers in cementitious composites, 6A439
- Control issues for rigid-in-plane helicopter rotors, 9A1243

KATZ, J: Cavitation and Multiphase Flow - 1995 ASME/JSME Fluids Eng Conf, 1N26
- Effects of large blockage in wind-tunnel testing, 2T1071
- Impulsive start of a symmetric airfoil at high angle of attack, 7A1154
- Unsteady aerodynamic model of flapping wings, 12A1167

KATZ, KP: Integrated digital avionics to improve aircraft environmental control systems, 7T1173

KATZ, R: Nonlinear analysis of environmental distortions of continuous wave signals in the ocean, 6A238

KATZAROV, IH: Pore formation in hot spots, 12A1220

KAU, SM: Dynamics of deep-bed filtrations: Velocity, depth and media, 6T1301

KAUER, JMG: Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, 6A1308

KAUFER, ES: Effect of hematocrit of adenosine diphosphate-induced aggregation of human platelets in tube flow, 2T1293

KAUFFMAN, CW: Mechanisms of detonation transmission in layered H_2-O_2 mixtures, 5T214
- Deflagration to detonation transition fueled by dust layers, 5A213

KAUFMAN, KR: Comparison of intersegmental joint dynamics to isokinetic dynamometer measurements, 1A1443
- Instrumented implant for measuring tibiofemoral forces, 8A1437

KAUFMANN, R: Simultaneous detection of positive and negative ions from single airborne particles by real-time laser mass spetrometry, 11A1319

KAUH, S: Temperature compensation of hot-wire anemometer with photoconductive cell, 3A1005

KAULA, R: Transport delay in mathematical models of batch coal flotation kinetics, 9A1410

KAULA, WM: Singularly weighted symplectic forms and applications to asteroid motion, 1A281

KAUP, PG: NDE of corrosion damage using electrostatic measurements, 8A702
- Method for imaging corrosion damage in thin plates from electrostatic data, 12A719

KAUPPINEN, EI: Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
- Ash vaporization in circulating fluidized bed coal combustion, 9A1322

KAUSHIKA, ND: Coupled radiative and conductive thermal transfers across transparent honeycomb insulation materials, 6A1141

KAUTZ, SA: Dynamic optimization analysis for equipment setup problems in endurance cycling, 2A1317

KAVEH, A: Structural Mechanics: Graph and Matrix, 2nd edition - Appl and Eng Math Series, 11N38
- Finite element nodal ordering algorithms, 5A24
- Analysis of pantograph foldable structures, 7A967

KAVIANY, M: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Principles of Heat Transfer in Porous Media, Second Edition - Mechanical Engineering Series, 9R25

KAW, AK: Asymptotic stresses around a crack tip at the interface between planar or cylindrical bodies, 1A807

KAWABATA, N: Development of new ultrasonic dressing equipment (Japanese), 1A735

KAWABATA, S: Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), 5A1327

KAWABE, Y: Structural optimization by density distribution for maximization of natural frequency, 8A726

KAWACHI, K: Effect of blade-tip planform on shock wave of advancing helicopter blade, 2A1048

KAWADA, F: Free vibrations of a snowboard, 8A116

KAWAGISHI, Y: Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), 7A815

KAWAGUCHI, J: Closed loop momentum transfer maneuvers using multiwheels, 1T388
- Low-thrust flyby guidance and an extended optimal spacing rule, 8T315

KAWAGUCHI, K: Extension of the adaptive BE scheme for the problem with mixed boundary conditions, 8A59

KAWAGUCHI, M: Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, 7A874

KAWAHARA, A: Prediction of the single-phase turbulent mixing rate between two parallel subchannels using a subchannel geometry factor, 11A1423

KAWAHARA, M: Finite element methods in large-scale computational fluid dynamics, 4A20
- Parameter identification for steady-state groundwater flow, 4A980
- Model verification on 3D tidal current analysis in Tokyo Bay, 6A936
- Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), 9A1460
- Characterization of 2D crack propagation behavior by simulation and analysis, 10A726

KAWAHARA, S: Optimum trafficability control system of a two-axle, two-wheel road roller during driving and braking action (Japanese), 10A440

KAWAHASHI, M: Laser Anemometry - 1995 ASME/JSME Fluids Eng Conf, 2N44
- Nonlinear phenomena induced by finite-amplitude oscillation of air column in a closed duct: Analysis of acoustic streaming, 11A190

KAWAI, H: Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210

KAWAI, K: Failure diagnostic system on air-operated control valves using neural network, 6A354

KAWAI, M: Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, 11A631

KAWAI, S: Free vibrations of a snowboard, 8A116
- Point bar deposits in narrow sharp bends, 12T1028

KAWAI, T: Visualization of solidification process in kinetics control system with interferometry, 1A1263
- Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970

KAWAI, Y: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150

KAWAJI, M: Two-phase crossflow and boiling heat transfer in horizontal tube bundles, 8A1132

KAWAKADO, S: Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), 5A106

KAWAKAMI, H: Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, 5A1109
- Fatigue degradation and life prediction of glass fabric polymer composite under tension-torsion biaxial loadings, 8A582

KAWAKAMI, I: Determination of shape-size on real time chatter prediction system, 7T205

KAWAKAMI, K: Measurement of 3D objects using gray code projection (Japanese), 2A705
- On-line process control based on geometrical parameters from measured data in machining process (Japanese), 7A482

KAWAKAMI, M: In-plane and out-of-plane free vibrations of curved beams with variable sections, 4A158

KAWAKAMI, N: Recent mechatronics technology on precise cutting (Japanese), 1T727

KAWAKAMI, S: Rheological approach to the analysis of blood coagulation in endothelial cell-coated tubes: Activation of the intrinsic reaction on the erythrocyte surface, 2T1299

KAWAKATSU, Y: Maskless patterning of gold electrical contacts by laser plating in a flowing solution, 1A437

KAWALD, U: Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, 7A228

KAWALL, JG: Lock-in of vortices in the wake of an elevated round turbulent jet in a crossflow, 1A1067
- Nonequilibrium anisotropic eddy-viscosity and diffusivity turbulence model for heated turbulent flows, 2T991

KAWAMOTO, H: Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), 3A724

KAWAMOTO, Y: Rheological approach to the analysis of blood coagulation in endothelial cell-coated tubes: Activation of the intrinsic reaction on the erythrocyte surface, 2T1299

KAWAMURA, A: Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), 3A341

KAWAMURA, K: Special issue: International workshop on biorobotics: Human-robot symbiosis, 12A1485

KAWAMURA, M: Centrifugal model test for reducing the earth pressure on the rigid culvert (Japanese), 7A710

KAWAMURA, N: Simultaneous optimization of sailplane design and its flight trajectory, 11A796

KAWAMURA, R: Steady and transient coupled analysis of 3D viscous flow and magnetic field by BEM, 6A42
- Transient heat conduction and thermal stress problems of a nonhomogeneous plate with temperature-dependent material properties, 7A1243

KAWAMURA, S: Study on the motion errors of NC surface grinding machine: Static accuracies versus circular motion errors (Japanese), 5A579
- Identification of acoustic-vibratory system by acoustic measurement, 6A272
- Study on the motion errors of NC surface grinding machine: Method for measuring the motion errors under the circular interpolation, 9A716

KAWAMURA, Y: Formulation of pre-extension in a practical stress-relaxation measurement of the plant cell wall, 6A1340

KAWANABE, H: Formation of turbulent eddies in jet diffusion flames, 11T1274

KAWANAMI, T: Rolling-deformation characteristics of clad materials determined by model experiments and numerical simulation: Numerical simulation of clad rolling by the rigid-plastic FEM, 3A603

KAWANISHI, K: Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, 1T257
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, 1T265

KAWANISHI, T: Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, 3A564

KAWANO, A: Model formulations for numerical creep calculations for concrete, 8A596

KAWANO, F: Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, 6A448

KAWANO, H: Simulataneous solution for flood routing in channel networks, 2T864

KAWANO, T: Simplified analysis of rectangular cellular plates, 9A582
- Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486

KAWANOBE, K: Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, 9A215

KAWASAKI, H: Efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters, 10A481

KAWASAKI, K: Method for inspection of spiral bevel gears in Klingeinberg cyclo-palloid system, 9A998

KAWASE , H: Evaluation of local site effects and their removal from borehole records observed in the Sendai region, Japan, 6A1264

KAWASE, H: Nonlinear behavior of soil sediments identified by using borehole records observed at the Ashigara Valley, Japan, 6A1266

KAWASHIMA, I: Critical strain of non-homogeneous rock masses (Japanese), 10A691

KAWASHIMA, K: Stress-strain model for reinforced concrete columns confined by lateral reinforcement (Japanese), 2A763
- Hybrid control of seismic-excited bridge structures, 4A374
- Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), 5T1328
- Energy dissipation capability of reinforced concrete bridge piers that fail in flexure at bottom (Japanese), 9A914

KAWASHIMA, N: VLF wave experiments in space using a modulated electron beam, 1A277

KAWASHIMA, S: Existence of shock profiles for viscoelastic materials with memory, 1A198

KAWASHIMA, Y: Theoretical discussion on swept-volumes of moving solid objects (japanese), 3A421

KAWATA, K: Dynamic tensile strength of composite laminate joints fastened mechanically, 7A567

KAWAUCHI, N: Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), 1A651

KAWAZOE, K: Vibration control of plates by plate-type dynamic vibration absorbers, 5A701

KAWECKI, J: Dynamic identification of a tall building model, 3A152
- Dynamic identification of a tall building model, 9A952

KAWIECKI, G: Comparison of mechanical impedance methods for vibration simulation, 10A204

KAXIRAS, E: Materials Theory, Simulations, and Parallel Algorithms, Volume 408, 11N32

KAY, A: Boundary-layer analysis of the thermal bar, 4A1150

KAY, GJ: Anisotropic modeling and numerical simulation of brittle damage in concrete, 4A689

KAY, GR: Flexible pharmaceutical powder production, 10A493

KAY, S: Revised mapping functions for 3D Serendipity infinite elements, 9A82

KAYA, MO: Numerical simulation of a self-sustained wake-edge interaction, 11T209

KAYABA, N: Dynamic system identification by neural network: A new fast learning method based on error back propagation, 6A270

KAYE, SR: Time-dependent transport by convection and diffusion with exchange between two phases, 2A1161

KAYKAYOGLU, CR: Numerical simulation of a self-sustained wake-edge interaction, 11T209

KAYNAK, C: Effects of short cracks on fatigue life calculations, 8A573
- Comparison of short and long fatigue crack growth in steel, 8A580

KAYNIA, AM: Forces in pile foundations under seismic loading, 6A1272

KAYSSER, WA: Hiping conditions for processing of metal matrix composites using the continuum theory for sintering - I: Theoretical analysis, 6A582
- Hiping conditions for processing of metal matrix composites using continuum theory for sintering - II: Application to fiber reinforced titanium alloys, 6A583

KAYUK, YF: Vibration regimes of complex motion of the material point of variable weight (Russian), 7A125

KAYUKAWA, N: Effects of plasma fluctuation in MHD generators: Studies with a numerical turbulence model, 1T1096

KAYUMOV, RA: Calculation of mechanical characteristics of composite materials based on the results of the multilayered structure work (Russian), 7A590

KAYVANI, K: Hysteretic modeling of tubular members and offshore platforms, 6A775

KAZAKIA, JY: Asymptotic two-layer model for supersonic turbulent boundary layers, 1A1078
- Air flow in cavities of labyrinth seals, 4A1113
KAZAKOV, DA: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
KAZAMA, K: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
- Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), 5A727
KAZAMA, M: Stress strain relationship of sandy soils obtained from centrifuge shaking table tests (Japanese), 10A649
KAZAMA, T: Experiment on mixed lubrication of hydrostatic thrust bearings for hydraulic equipment, 5A1091
KAZARINOFF, ND: Euler-Poisson equations and existence of quasi-periodic motions of heavy tops, 9A146
KAZAROFF, JM: Structurally compliant rocket engine combustion chamber - Experimental and analytical validation, 1A1345
KAZBERUK, A: Data generation in the analysis of wall-plate building structures (Polish), 6A774
KAZEIKIN, SN: Three-dimensional boundary layers on complex-shaped bodies at angles of attack, 1A1049
KAZEMI, MA: Cell-averaging Chebyshev spectral method for the controlled Duffing oscillator, 4A197
KAZEMINEJAD, H: Numerical study of convective heat transfer from a blunt plate at low Reynolds number, 3A1031
KAZIMI, MS: Forced convection in-tube steam condensation in the presence of noncondensable gases, 11A1177
KAZMIERCZAK, B: Existence theorems for elliptic partial differential equations of reaction-diffusion type, 1A11
- Explicit formulae for heteroclinic solutions to scalar second-order ordinary differential equations, 9A1208
KAZYS, R: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701
KE, FJ: Stochastic jump and deterministic dynamics model of impact failure evolution with rate effect, 8A604
KE, J-L: Nonlinear dynamic response of a nonuniform orthotropic circular plate under random excitation, 11A115
KE, TE-CHIH: Modeling of particulate media using discontinuous deformation analysis, 3A1249
KEANE, AJ: Passive vibration control via unusual geometries: The application of genetic algorithm optimization to structural design, 1A314
- Energy flow predictions in a structure of rigidly joined beams using receptance theory, 2A84
- Effect of attachments on the natural frequencies of a membrane, 6T128
- Passive vibration control via unusual geometries: Experiments on model aerospace structures, 8A331
- Vibrational energy flows between coupled membranes, 10A170
- Shifting resonances from a frequency band by applying concentrated masses to a thin rectangular plate, 10A177
KEANINI, RG: Inverse FE reduced mesh method for predicting multi-dimensional phase change boundaries and nonlinear solid phase heat transfer, 6A1127
KEARNEY, JN: Mechanical properties of tendons: Changes with sterilization and preservation, 9A1442
KEARNEY, SP: Local convective behavior and fin efficiency in shallow banks of in-line and staggered, annularly finned tubes, 11A1100
KEARTON, JE: Closed-form solutions for unsaturated flow under variable flux boundary conditions, 12T1413
KEAT, WD: Surface integral and FE hybrid method for 3D analysis of arbitrarily shaped surface cracks, 10A760
KEATING, D: Implications of the emerging home systems technologies for rehabilitation, 10A1489
KEATING, RF: Fundamental energy argument of elastic fracture mechanics, 8A614
KEATING, WG: Intelligent tool selection system, 7A743
KEBAILI, A: Velocity anisotropy observed in well-bore seismic arrivals: Combined effects of intrinsic properties and layering, 6A1257
KECECIOGLU, D: Environmental Stress Screening: Its Quantification, Optimization, and Management, 3N23
KECS, WW: Cauchy's problem for the generalized equation of the longitudinal vibrations of elastic rods, 3T115
KECSKEMETHY, A: Kinematics and Dynamics of Multi-Body Systems, 5N10
- Comparative study of recursive methods, 5A74
- Sparse-matrix generation of Jacobians for the object-oriented modeling of multibody systems, 7A92
KEDAR, S: Continuous monitoring of seismic energy release associated with the 1994 Northridge earthquake and the 1992 Landers earthquake, 11A1363
KEDEM, B: Power considerations in acoustic emission, 3A262
KEDWARD, K: Ultimate tensile strength of composites exhibiting fiber fragmentation, 9A825
KEDZIERSKI, MA: Single-phase heat transfer and pressure drop characteristics of an integral-spine fin within an annulus, 11A1219
KEE, PK: Development of constrained optimization analyses and strategies for multi-pass rough turning operations, 3A618
KEEL, LH: Robust Control: The Parametric Approach - Prentice Hall Information and System Sciences Series, 12R12
KEELEY, D: Room temperature formability of particle-reinforced metal matrix composites: Forging, extrusion, and deep drawing, 2A557
KEENAN, PT: Collocation and upwinding for thermal flow in pipelines: The linearized case, 10A1152
KEENER , D: Transpiration cooling effects on nozzle heat transfer and performance, 5A947
KEENER, ER: Hypersonic nozzle - Afterbody experiment: Flowfield surveys, 12A1072
- Hypersonic nozzle-afterbody experiment: Flow visualization and boundary-layer measurements, 12A1073
KEER, LM: Mathematical solution of a special mixed-boundary-value problem of anisotropic elasticity, 3A440
- Note on the line spring solution for a part-through crack, 4A760
- Surface uplift and wear implications of zirconia toughened ceramics, 6A832
- Simplified direct method for cyclic strain calculation: Repeated rolling-sliding contact on a case-hardened half plane, 10A983
KEERS, H: Ray theoretical analysis of Lg, 12A1368
KEERTHI, SS: Gain optimization under control structure and stability region constraints, 10A412
KEFFER, JF: Lock-in of vortices in the wake of an elevated round turbulent jet in a crossflow, 1A1067
- Nonequilibrium anisotropic eddy-viscosity and diffusivity turbulence model for heated turbulent flows, 2T991
KEGL, M: Shape optimal design of elastic planar frames with nonlinear response, 2A732
KEGLEVIC, I: Plane potential flow through the inhomogeneous porous line, 10A1065
KEH, HUAN J: Axisymmetric thermophoresis of multiple aerosol spheres, 7A1351
KEIFFER, RS: Physically motivated model for sea surface backscattering in the low to moderate frequency regime, 3A204
KEILERS JR, CH: Identifying delamination in composite beams using built-in piezoelectrics - Part I: Experiments and analysis, 3A669
- Identifying delamination in composite beams using built-in piezoelectrics - Part II: An identification method, 3A670
KEILOVA, E: Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, 10A746
KEISER, GM: Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, 11A267
KEITH JR, TG: Prediction of cavitation in journal bearings using a BEM, 5A1107
KEITH, MW: Restoration of pronosupination control by FNS in tetraplegia: Experimental and bioenechanical evaluation of feasibility, 8A1423
KEITH, WL: Flow Noise Modeling, Measurement and Control, NCA-Vol 19-FED-Vol 230 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 4N6
- Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf, 2N48
KEKALOV, AN: Heat transfer in pulsating flow of a liquid with internal heat sources, 5A1128
KEKUKH, SA: Long-term failure of cylindrically anisotropic viscoelastic material with a crack under variable load, 7A777
KELDER, H: Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, 12T1417
KELDERS, L: Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attentuation measurements, 9A368
KELKAR, AA: Automatic ordering of isochromatic fringes: A new methodology, 2A684
KELKAR, AG: Dissipative controllers for nonlinear multibody flexible space structures, 3A365
KELKAR, KM: Numerical prediction of fluid flow and heat transfer in welding with a moving heat source, 7A1227
KELLAS, S: Dynamic crush tests of energy-absorbing laminated composite plates, 11A490
KELLER, B: Line-by-line calculations of the absorption of infrared radiation by water vapor in a box-shaped enclosure filled with humid air, 2A1134
KELLER, D: Transonic aeroelastic models of highly swept hypersonic lifting surfaces, 5A230
KELLER, FJ: Flow and heat transfer behavior in transitional boundary layers with streamwise acceleration, 11A947
KELLER, JB: Stability of linear shear flows in shallow water, 4A1069
- Periodic folding of thin sheets, 4A427
- Hybrid asymptotic-numerical method for low Reynolds number flows past a cylindrical body, 4A978
KELLER, JC: Effects of sterilization treatments on adhesion of bone cells to titanium, 8A1408
KELLER, JJ: Thermacoustic oscillations in combustion chambers of gas turbines, 4A308
KELLER, L: Optimizing the panel area of a photovoltaic system in relation to the static inverter: Practical results, 1A1430
KELLEY, CT: Iterative Methods for Linear and Nonlinear Equations - Frontiers in Applied Mathematics 16, 11N6
- Solution of optimal control problems by a pointwise projected Newton method, 4T358
KELLEY, MC: Thunderstorm III 4-megahertz burst-mode data acquisition system, 7A304
KELLOGG, RB: Finite element method for the compressible Stokes equations, 10A1106
KELLY , DW: Model of spine, ribcage and pelvic responses to a specific lumbar manipulative force in relaxed subjects, 2A1292
KELLY, AD: Crack propagation models for rock fracture in a geothermal energy reservoir, 4A625
KELLY, AJ: Microinstabilities in a 10-kilowatt self-field magnetoplasmadynamic thruster, 8A1294
KELLY, IG: Three-dimensional joint co-ordination strategies of the upper limb during functional activities, 9A1440
KELLY, J: Tests of constitutive equations for entangled polymers based on planar-extension flow histories in a periodically-constricted channel, 9A1043
KELLY, JJ: De-Dopplerization of aircraft acoustic signals, 2A209
- Electrochemical microactuator: Principle and first results, 11A359
KELLY, JM: Compression of bonded blocks of soft elastic material: Variational solution, 7A500
KELLY, K: Use of side-scan sonar for oceanographic investigations, 6A917
KELLY, PA: Transmission of rapidly applied loads through articular cartilage - Part 2: Cracked cartilage, 9A1446
- Transmission of rapidly applied loads through articular cartilage - Part 1: Uncracked cartilage, 9A1445
KELLY, R: Fixed-eye direct visual feedback control of planar robots, 5A371
- Set-point robot controller by using only position measurements, 10A490
KELLY, S: Computer model of major haemorrhage and resuscitation, 11A1463
KELSO, RM: Experimental study of round jets in cross-flow, 7A1113
KELTIE, RF: Vibration reduction of a mass-loaded beam, 4A225
KEMAL IDER, S: Filament-wound composite links in multibody systems, 4A105
KEMBLOWSKI, MW: Stochastic analysis of multiphase flow in porous media - 1: Spectral-perturbation approach, 2T1219
- Stochastic analysis of two-phase flow in porous media - II: Comparison between two perturbation and Monte-Carlo results, 3A1257
- Stochastic analysis of two-phase flow in porous media - I: Spectral-perturbation approach, 3A1256
- Stochastic analysis of unsaturated transport in soils with fractal log-conductivity distribution, 5A1337
KEMMOCHI, K: Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, 11A631
KEMP, AR: Inelastic local and lateral buckling in design codes, 10A625
KEMPKA, K: Nonlinear viscoelasticity and the thrombelastograph- I: Studies on bovine plasma clots, 6A1334
KEMPNY, S: Circular plate in contact with an elastic half-space by unilateral constraints (Polish), 6A486
KEMPPAINEN, D: Geometry of nonholonomic constraints, 10A71
KENANE, M: Measurement of mixed-mode delamination fracture toughness of unidirectional glass-epoxy composites with mixed-mode bending apparatus, 11A683
KENDALL, KN: Experimental investigation of resin temperature and pressure during filling and curing in a flat steel RTM mold, 9A720
KENDOUSH, AA: Low Prandtl number heat transfer to fluids flowing past an isothermal spherical particle, 1A1169
- Improving the accuracy of the capacitance method for void fraction measurement, 4A1019
KENEDI, PP: Fatigue crack growth rate prediction deparing from Coffin-Manson Concepts (Spanish), 7A786
KENJERES, S: Prediction of turbulent thermal convection in concentric and eccentric horizontal annuli, 5A1133
- Natural convection in partitioned 2D enclosures at higher Rayleigh numbers, 7A1214
KENNEDY, D: Wave propagation along longitudinally periodically supported or stiffened prismatic plate assemblies, 2A154
- Hybrid parallel computation of transcendental structural eigenvalues, 4A227
- Accelerated solutions for transcendental stiffness matrix eigenproblems, 12A141
- Efficient parallel solution of structural eigenvalue problems, 12A210
KENNEDY, DJL: Design of steel beams in cantilever-suspended-span construction, 3A525
KENNEDY, FE: Dry sliding wear of NiAl, 10A971
KENNEDY, JB: Simplified analysis of long-span soil-metal structures, 2A463
KENNEDY, JF: Albert Shields story, 3A882
KENNEDY, P: Predicting warpage of injection molded fiber-reinforced plastics, 8A455
KENNEDY, TC: Poisson's ratio and the interfacial behavior of composite materials, 4A521
- Micromechanics of a model heterogeneous material system under compressive loading, 5A675
KENNEPOHL, F: Acoustics of a counter-rotating shrouded propfan: Prediction and data, 2A208
KENNETT, BLN: Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, 11A1386
KENNY, JM: Processing of short fiber-thermosetting matrix composites, 7A564
KENT, GM: Suppression of sea-floor-scattered energy using a dip-enoveout approach: Application to the mid-ocean ridge environment, 11A1378
KENT, RM: Ultrasonic assessment of Poisson's ratio in thin rods, 3A123
KENWRIGHT, J: Influence of external fixators on fracture motion during simulated walking, 11A1460
KEOGH, PS: Dynamic thermal state in a hydrodynamic bearing with a whirling journal using CFD techniques, 10A1222
- On-line controller implementation for attentuation of synchronous and transient rotor vibration, 12A409
KEONG, KONG SIA: Failure loads of slender reinforced concrete columns, 7A936
KEPIC, AW: Fiber optic time break, 6A1258
KEPPLE, TM: Improved agreement of foot segmental power and rate of energy change during gait: Inclusion of distal power terms and use of 3D models, 10A1470
KER, RF: Mechanical properties of the human heel pad: A Paradox resolved, 2A1296
KERDJOUDI, M: Implementation of the BEM in the dynamics of flexible bodies, 6A41
KEREN, D: Controlling thermal stresses in composites by means of fiber prestress, 10A1338
KERGOMARD, J: Aspects of tuning and clean intonation in reed instruments, 2A213
KERMANIDIS, TB: Static and stability analysis of composite plates by a semi-analytical method, 1A634
KERNEN, M: Computer-aided molecular design of fluids that optimize absorption cycle COP, 1A1287
KERR , AD: Bearing capacity of floating ice covers subjected to static and oscillatory loads, 12A1038
KERR, AD: Peculiar set of problems in linear structural mechanics, 5A494
- Natural vibration analysis of clamped rectangular orthotropic plates, 7A162
KERR, DR: Finite twist mapping and its application to planar serial manipulators with revolute joints, 2A64
- Analysis of force distribution in grasps using augmentation, 8A351
KERR, OS: Effect of rotation on double-diffusive convection in a laterally heated vertical slot, 4A1245
KERR, RM: Compressible vortex reconnection, 6A925
- Rayleigh number scaling in numerical convection, 9A1073
- Structure of nonpremixed reaction zones in numerical isotropic turbulence, 11A1001
KERREBROCK, JL: Flow instability in plane-parallel particle beds with constant volumetric heating, 2A1272
KERRY ROWE, R: Chloride migration through clayey silt underlain by fine sand or silt, 6A1183
KERRY, G: Bandwidth limitation effects on low-frequency impulse noise prediction and assessment, 12A302
KERSCHEN, EJ: Boundary-layer receptivity for a parabolic leading edge, 9A1134
KERSEY, AD: Fiber optic sensors in concrete structures: A review, 11T348
KERSH JR, JM: Effects of a closely coupled static and oscillating canard, 5T1002
KERSWELL, RR: Internal shear layers spawned by the critical regions in oscillatory Ekman boundary layers, 2A952
- Oscillatory internal shear layers in rotating and precessing flows, 2A948
- Linear instability of elliptic pipe flow, 12A1138
KERWIN, DG: Quantification of the uncertainties in resultant joint moments computed in a dynamic activity, 12A1463
KESAVAN, HK: Graph-theoretic modeling of particle-mass and constrained rigid body systems, 2T78
KESHMIRI, M: General formulation for N-body tethered satellite system dynamics, 6A80
KESSLER, R: Magnetohydrodynamic generator design for a combined-cycle demonstration power-plant, 8A1000
KESSLER, WJ: Simultaneous water vapor concentration and temperature measurements using 1.31-μm diode lasers, 8A1053
KETTLEBOROUGH, CF: Alternative desiccant cooling cycle, 3A1157

KEUM, YT: Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, 8A23
KEVORKIAN, J: Multiple Scale and Singular Perturbation Methods - Applied Mathematical Sciences, Vol 114, 11R2
- Asymptotic analysis of a class of 3 dof Hamiltonian systems near stable equilibria, 4A111
KEYES, DE: Newton-Krylov methods for low-Mach-number compressible combustion, 10A1380
KFOURI, AP: Fracture criterion for cracks under mixed-mode loading, 2A609
- Crack extension under mixed-mode loading in an anisotropic mode-asymmetric material in respect of resistance to fracture, 8A662
KHABAKHPASHEVA, EM: Heat transfer in pulsating flow of a liquid with internal heat sources, 5A1128
KHABEYEV, NS: Problem of interface heat exchange between a gas bubble and a liquid, 1A1245
KHAIMOVICH, ME: Experimental determination of tangential stresses on the surface of an indenter dynamically forced into soil, 5T553
KHAIN, A: Model of a homogeneous isotropic turbulent flow and its application for the simulation of cloud drop tracks, 8T978
KHAJ, MV: Determination of displacements on the boundary of a solid, caused by discontinuities of the medium continuity, 7A498
KHALID, A: New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, 2A318
KHALID, H: Influence of rheological properties of bitumen emulsions on the performance of surface dressing systems, 1A962
KHALID, SA: Factors affecting measured axial compressor tip clearance vortex circulation, 5T1056
KHALID, YA: Effects of adjacent braces on the static strength of a corner YT joint, 9A942
- Static strength of tubular T and Y joints under combined bending and axial loading, 9A947
KHALIGHI, B: Experimental and Numerical Flow Visualization - 1995 ASME/JSME Fluids Eng Conf, 2N36
- Multidimensional in-cylinder flow calculations and flow visualization in a motored engine, 1A1350
KHALIL, HK: Output feedback stabilization using variable structure control, 2T282
KHALILI, A: Flow induced by an asymmetrically placed disk rotating coaxially inside a cylindrical casing, 5A883
KHALILI, N: Unified theory of flow and deformation in double porous media, 10A1412
KHALLOUFI, S: Theoretical and experimental investigation of a constant-pressure adsorption process, 2A1079
- Improving the performance of adsorption heat exchangers using a finned structure, 8A1191
KHALOO, AR: Moment curvature analysis of confined concrete flexural members, 2A461
KHAMLICHI, A: Elastic-plastic water hammer analysis in piping systems, 4A272
KHAN, AA: Vertically averaged and moment equations model for flow over curved beds, 6T875
KHAN, AI: Parallel FE analysis using Jacobi-conditioned conjugate gradient algorithm, 12A24
- Subdomain generation for non-convex parallel FE domains, 12A32
KHAN, AS: Anisotropic elastic-plastic constitutive model for single and polycrystalline metals - I: Theoretical developments, 11A459
KHAN, B: Low velocity impact fatigue studies on glass epoxy composite laminates with varied material and test parameters: Effect of incident energy and fiber volume fraction, 4A524
KHAN, JA: Infiltration and solidification-remelting of a pure metal in a 2D porous preform, 8A1112
- Effects of multiple obstructions on conjugate forced convection heat transfer in tubes, 8A1069
KHAN, LA: Operator-splitting algorithm for the 3D diffusion equation, 3A1125
- Operator splitting algorithm for coupled 1D advection-diffusion-reaction equations, 4A1249
KHAN, NU: Role of Rayleigh damping, 1A122
KHAN, SA: Shear-induced microstructural changes in flocculated suspensions of fumed silica, 4A900
KHAN, Z: Corrosion and corrosion fatigue resistance of a modified aluminum-magnesium alloy in Arabian Gulf seawater environment, 2A590
KHANG, G: Biocompatibility of polysulfone - I: Surface modifications and characterizations, 6T1352
- Biocompatibility of polysulfone - II: Platelet adhesion and CHO cell growth, 6T1353
KHANNA, SK: Application of high resolution geometric moire method to fracture problems, 5T669
KHANNA, V: Static and dynamic analysis of concrete pavements including thermal warping effects, 4T131
KHARAB, A: Approximate method for a 2D parabolic free boundary problem, 9A1374
KHARIF, C: Two approaches to the problem of instability of short-crested water waves, 4A268
KHARITONOV, AA: Heat and mass transfer in superheated vapor jet condensation, 1A1242
KHARITONOV, AM: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
KHARITONOV, VF: Commercial hazardous liquid waste disposers using thermojet afterburners, 6A1300
KHARITONOV, VV: Convective heat exchange and thermomechanics of cooling laser mirrors, 5A1157
KHARITONOV, YV: Experimental data on hydraulic drag on boiling water in heated tubes, 1A1231
KHASHABA, UA: Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, 9A752
KHASMINSKII, RZ: Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, 5A154
- Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, 5A155
KHASSAN, AF: Heat transfer to developed surfaces above a fluidized bed, 10A1419
KHATAVKAR, DV: Role of tape abrasivity on friction, wear, staining and signal degradation in audio tapes, 5A802
KHATOR, SK: Simultaneous evaluation and selection of strategies for loading and controlling machines and material handling system in FMS, 2A349
KHATRI, KN: Vibrations of arbitrarily laminated fiber reinforced composite material truncated conical shell, 2A114
- Axisymmetric vibration of multilayered conical shells with core layers of viscoelastic material, 3A134
- Vibration and damping analysis of multilayered conical shells, 5A139
- Antisymmetric vibrations of multilayered conical shells with constrained viscoelastic layers, 10A180
- Vibration and damping analysis of fiber reinforced composite material conical shells, 12A176
KHATRI, SC: Thick-section AS4-graphite-E-glass-PPS hybrid composites - Part I: Tensile behavior, 9A536
- Thick-section AS4-grapite-E-glass-PPS hybrid composites - Part II: Flexural response, 11A481
KHATTAB, MM: In-plane behavior of grouted concrete masonry under biaxial tension-compression, 5A708
KHAWAJA, A: Hybrid prismatic-tetrahedral grid generation for viscous flows around complex geometries, 7A29
KHAYAT, RE: Numerical simulation of transient planar flow of a viscoelastic material with two moving free surfaces, 5A427
- Dual-reciprocity BE approach to 3D transient heat conduction as applied to materials processing, 8A1173
- Chaos in the thermal convection of weakly shear-thinning fluids, 12A1041
KHAZRAEI, R: Continuum damage mechanics approach for time-independent and dependent behavior of brittle rock, 11T574
KHDEIR, AA: Dynamic response of cross-ply laminated circular cylindrical shells with various boundary conditions, 3A140
- Dynamic response of antisymmetric cross-ply laminated composite beams with arbitrary boundary conditions, 5A146
- Forced vibration of antisymmetric angle-ply laminated plates with various boundary conditions, 6A132
- Remark on the state-space concept applied to bending, buckling, and free vibration of composite laminates, 9A559
KHELIF, A: Elastic vibrations of planar and deterministic rough surfaces, 9A358
KHELIFA, A: Analysis of time varying errors in quadratic FE approximation of hyperbolic problems, 4A25
KHELLIL, K: Experimental determination of TSAI failure tensorial terms F_{ij} for unidirectional composite materials, 5A643
KHEMAISSIA, S: Neural network based adaptive robot controller, 7A448
KHEN, R: Effect of static mode on fatigue crack growth by a unified micromechanic model, 2A673
KHERBOUCHE, R: Poroplastic behavior of porous rocks, 1A708
KHIN, M: Fundamental study on bond behavior of various FRP rods in pretensioned PC members, 6A749
KHITROV, VV: Ultimate stresses in spatially reinforced composites of different structural geometry and component elastic properties (Russian), 7A574
KHIZHNY, VI: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512
KHLAPOV, NV: Simulation of vortex diffusion effects on jet turbulence characteristics, 10A1159
KHLOPKOV, YI: Theoretical and experimental investigations of a supersonic low-density flow over a sphere with surface condensation and evaporation, 10T1097
KHLUDNEV, AM: Contact problem for a shallow shell with a crack, 2A469
KHLYSTOV, A: High-flow turbulent cloud chamber, 8A1369
KHMYLNIK, VA: Heat transfer to emulsion with a low-boiling disperse phase, 1A1282
KHODABANDEHLOO, K: Modeling flexible sheets for automatic handling and lay-up of composite components, 4T423
- Automated manufacture of prepreg broadgoods components: A review of literature, 7A575
KHODDAM, S: Thermal analysis of the hot torsion test taking into account radiation, 7A34
KHODZHAYEV, YD: Hydrodynamics and heat transfer of a vapor-liquid flow in a channel of complex geometry, 1A1233
KHOKHLOV, AM: Scaling in buoyancy-driven turbulent premixed flames, 9A1316
KHOKHLOV, AV: Solution of 2D problems of the theory of elasticity by minimizing the boundary residual in the space of biharmonic functions, 2A370
KHOLODILOV, OV: Fracture of reinforced thermoplastics, 7A793
KHOLOPOVA, VV: Resonance phenomena under nonlinear oscillations of two-layered liquid (Russian), 3A199
- Localization of gas bubbles in a cylindrical cavity with the emitter along its axis (Russian), 7A1090
- Motion of a liquid drop in oscillating liquid, 9A1117
KHOLOSTOVA, OV: Problems of the motion of a pendulum when there are horizontal vibrations of the point of suspension, 7A114
KHOMA, IY: Certain relations of generalized theory of shallow shells under finite bendings (Russian), 7A616
KHOMA, YI: Fracture of infinite compressible composite containing finite cylindrical crack under the conditions of axial compression, 9A791
KHOMAMI, B: Higher order FE techniques for viscoelastic flow problems with change of type and singularities, 1A484
KHOMCHENKO, VG: Synthesis of the mechanical diagrams of crank-and-rocker mechanisms by the rocker amplitude angle and the cyclogram asymmetry angle, 3T848
KHOMENKO, I: Mechanism of structure formation during combustion synthesis of titanium silicides, 7A1333
KHONG, PW: Semi-energy and the lower bound methods to the post-buckling of plate, 3A550
KHONSARI, M: EHD inlet zone analysis incorporating the second Newtonian, 10A1224
KHONSARI, MM: Application of transient elastohydrodynamic lubrication analysis for gear transmissions, 2A1055
- Hydro-roll: A novel bearing design with superior thermal characteristics, 8A815
- Finite element analysis of the frictional forces between a cylindrical bearing element and MoS_2 coated and uncoated surfaces, 12A883
KHOO, BC: Numerical near-wall corrections of single hot-wire measurements, 6A1106
- Strong interaction between a buoyancy bubble and a free surface, 7A1092
- Numerical approach to blade-vortex interaction in 2D viscous flow, 11T228
KHORASANI, K: Control of non-minimum phase singularly perturbed systems with application to flexible-link manipulators, 10A486
KHOROMSKIJ, BN: Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures, 12A30
KHOROSHAVINA, SG: Certainty of acoustic-emission control of the quality of composites, 3A278
KHOROSHUN, LP: New mathematical model of non-uniform deformations of composites (Russian), 1A529
- Nonlinear deformation of layered-fibrous composites (Russian), 7A569
- Oscillations of stochastically laminar material in longitudinal direction, 7A123
- Model of nonlinear mechanics of cracks, 7A811
- Effect of porosity on nonlinear deformation of layered fibrous materials, 9A540
- Construction of equations of mechanics of continuous medium on the basis of Lennerd-Johns potential, 9A1
- Integral relations in the crack apex vicinity, 9A811
KHORRAMI, F: Decentralized control of large-scale power systems with unknown interconnections, 8A276
- Neural network design with genetic learning for control of a single link flexible manipulator, 9A462
KHORUZHENKO, AG: Convective heat transfer from a horizontal cylinder in a porous medium and a narrow slot, 10A1268
KHOSLA, P: Equivalence of second-order impedance control and proportional gain explicit force control, 4A332
KHOSLA, PK: Vision resolvability for visually servoed manipulation, 7A453
KHOSROPOUR, R: Resonant free surface waves in a rectangular basin, 4A267
KHOT, NS: Structural optimization using the Newton modified barrier method, 6A725
KHOUNSARY, AM: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
KHRAMTSOV, PP: Nonstationary convection near a vertical surface with periodic change in heat flux, 6A1079
- Stable vortex structures in axisymmetric convective torch during oscillating combustion, 7A1340
KHRAMTSOVSKY, A: Analysis of the asymptotic stability region boundary for a dynamic system, 10A87
KHRISTICHENKO, MD: Asymptotic behavior of the solution of the covariance equation for a navigational system, 1A387
KHRUSTALEV, D: Heat transfer in the inverted meniscus type evaporator at high heat fluxes, 1A1249
- Heat transfer during evaporation on capillary-grooved structures of heat pipes, 3A1154
- Estimation of the maximum heat flux in the inverted meniscus type evaporator of a flat miniature heat pipe, 8A1202
- Enhanced flat miniature axially grooved heat pipe, 8T1201
- High flux evaporative mini-channel heat sink with axial capillary grooves, 11A1222
KHUDIK, VN: Ion-acoustic multisoliton in plasma with ion beams, 1A227
KHULIEF, YA: Vibrational motion of an elastic beam with prismatic and revolute joints, 7A147
- Approximate analytical solution of beam vibrations during axial motion, 10A143
- Finite element dynamic modeling of a translating and rotating flexible link, 12A147
KHURI, SA: Biorthogonal series solution of Stokes flow problems in sectorial regions, 7A1060
- Two methods for solving integral equations, 11A72
- Solution of a partial differential equation arising in fluid flow theory, 12A1032
KHURI-YAKUB, BT: Hertzian contact transducers for NDE, 6A706
KHUSANOV, BE: Numerical analysis of nonstationary plane elastic wave diffraction on a rigid wedge, 7A245
KHUSID, BM: Growth of vapor bubbles in boiling polymer solutions - II: Nucleate boiling heat transfer, 4A1178
- Special features of boiling of macromolecular polymer solutions, 5A1125
KHUSNUTDINOVA, KR: Nonlinear dynamics of coupled chains of particles, 4A165
KHUTORYANSKY, NM: Dynamic representation formulas and fundamental solutions for piezoelectricity, 1A681
KHVOSTUNKOV, AA: Boron-aluminium shells under hydrostatic pressure, 3A512
KIBETS, AI: Numerical simulation of the nonstationary impact interaction between deformable structural elements, 5A678
KIBRYA, MG: Blowout limits of a jet diffusion flame in the presence of small surrounding jet pilot flames, 12A1318
KICHENASSAMY, S: Nonlinear Wave Equations - Pure and Applied Mathematics Series, Vol 194, 7R6
KICHIGIN, AM: Relationship between the critical heat flux density and the frequency of formation of vapor clusters under near-critical conditions, 1A1239
KICINSKA-HABIOR, M: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
KIDD, SR: Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
KIDDY, KC: Transient interaction of a spherical shell with an underwater explosion shock wave and subsequent pulsating bubble, 3A197
KIEDAISCH, JW: Interaction of missile nose-tip vortices with a control surface, 10A1202
KIEFER, H: Osteonal structure better predicts tensile strength of healing bone than volume fraction, 2A1286
KIEHNE, TM: Aerodynamics of a body immersed in a supersonic wake: A computational study, 5A1007
KIELCZYNSKI, P: Radiation of piezoelectric rings into the air through cylindrical waveguides, 9A260
KIELY, G: Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, 12A1415
KIERNOZYCKI, W: Creeping of hardening concrete under tension (Polish), 10A909
KIERZENKOWSKI, K: Object contour recognition using oriented grids, 1A376
KIGER, KT: Effect of vortex pairing on particle dispersion and kinetic energy transfer in a two-phase turbulent shear layer, 4A1003
KIHARA, S: Experiences of shape forming process: Experiments and numerical simulations, 11A585
KIHM, KD: Onset of flow reversal and penetration length of natural convective flow between isothermal vertical walls, 3T1045
KIIKO, IA: Planar cross-section law in supersonic aerodynamics and the panel flutter problem, 10T1194
KIJKO, A: Introduction to Mining Seismology - International Geophysics Series, Vol 55, 1N38
KIKUCHI, K: Rock Foundations - Proc of Int Workshop, Tokyo, Japan, Sept 1995, 12N32
- Proposal of grain boundary damage parameter (Japanese), 4A692
KIKUCHI, M: July 12, 1993 Hokkaido-Nansei-Oki, Japan, earthquake: Effects of source complexity on surface-wave radiation, 11A1341

KIKUCHI, N: Analysis of single-layered corrugated core sandwich plate by homogeneous method: On the application of homogenization method to composite structures with only planar periodicity (Japanese), 1A561
- Optimization of a frame structure subjected to a plastic deformation, 6A722
- New method of sequential approximate optimization for structural optimization problems, 7A906
- Optimal design of controlled structures, 8A720
- Application of topological optimization techniques to structural crashworthiness, 10A940
KIKUCHI, Y: Study for representation and application about design and manufacturing communication model (2nd Report) -Integrated model for design and manufacturing activity- (Japanese), 9T469
KIKUIRI, N: Mask-to-wafer fine gap setting method, 1A384
KIKURA, H: Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, 10A1146
KIKUSHIMA, Y: Use of optimally shaped piezoelectric film sensors in the active control of free field structural radiation - Part 1: Feedforward control, 5A281
- Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feedforward control, 9A370
KILDESO, J: Experimental investigation for agglomeration of aerosols in alternating electric fields, 4A1284
KILGO, MM: Temperature measurement during high-intensity laser-liquid interactions, 8A1122
KILIC, M: Turbulent flow between two disks contrarotating at different speeds, 11A896
KILIDJIAN, G: Influence of water on mechanical properties and fracture mechanism of FRP-aramid honeycomb core sandwich material (Japanese), 4A487
KILL', ID: Thermal shock at the boundary of a half-space in the case of axial symmetry, 2A1127
KIM , JL: Temperature compensation of hot-wire anemometer with photoconductive cell, 3A1005
KIM , KS: Hold time crack growth analysis at elevated temperatures, 2A567
KIM, BYUNG-NAM: Characterization of 2D crack propagation behavior by simulation and analysis, 10A726
KIM, C: Analysis of thick hollow composite beams under general loadings, 11A502
KIM, C-J: Heat transfer correlation for natural convection in a meniscus-shaped cavity and its application to contact melting process, 11A1122
KIM, CG: Transient thermoelastic analysis of composite brake disks, 5A1188
- Bimodal bound of system reliability for random composite structures, 12A838
KIM, CHANG JOO: Effects of thermomechanical treatments on low cycle fatigue properties of Ti-3Al-8V-6Cr-4Mo-4Zr alloy, 7A1292
KIM, CHARN-JUNG: Selection of prognostic equations for the rotating motion in simulating Czochralski flow, 5A894
- Block correction-aided, strongly implicit procedure to treat simultaneous linear equations arising from implicit discretization of 3D field equations, 5A1155
KIM, CHEOL: Continuous curing process for thermoset polymer composites - Part 2: Experimental results for a graphite-epoxy laminate, 10A716
KIM, CHUN-GON: Delamination buckling and growth of composite laminated plates with transverse shear deformation, 4A726
- Axisymmetric analysis of transient thermoelastic behaviors in composite brake disks, 6A1161
KIM, CJ: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
KIM, CS: Modeling and numerical analysis of compression molding of 3D thin parts with curing process, 5A583
KIM, CW: Analysis of the power cycle utilizing the cold energy of LNG, 4A1359
KIM, D: Optimized feedforward design scheme unifying regulator and command generator tracker, 12A390
KIM, DAE-HWAN: Experimental modal analysis and vibration monitoring of cutting tool support structure, 2A138
KIM, DE: Application of neural networks to flank wear prediction, 12A684
- Measurement of static friction coefficient between flat surfaces, 12A893
KIM, DEOKJOO: Full and von Karman geometrically nonlinear analyses of laminated cylindrical panels, 4A547
KIM, DH: Simple method of analysis for the preliminary design of particular composite laminated primary structures for civil construction, 7A571
KIM, DONG SIK: Size effect of micro-cutting force in ultraprecision machining, 9A735
KIM, DONG WON: Reliability-based shape optimization of 2D elastic problems using BEM, 12A828
KIM, DONGMIN: Dual quaternion application to kinematic calibration of wrist-mounted camera, 7A431
KIM, DS: Flow and heat transfer measurements of a wall attaching offset jet, 12A1226
KIM, EF: Epicardial surface dynamics in the closed-chest normal canine, 2A1302
KIM, EUISOK: Modeling issues related to retrieval of flexible tethered satellite systems, 3A164
KIM, G: Hydrodynamic instabilities in flat-plate-type fuel assemblies, 2A1273
KIM, GWANGIL: Analysis of the separatrix map in Hamiltonian systems, 6A97
KIM, H-J: Model for sound propagation in capillary ducts with mean flow, 7A321
KIM, HAI IN: Upgrading of braced frames for potential local failures, 10A934
KIM, HG: Field-emitter cathode for acceleration sensors, 6T349
KIM, HONG-GIL: Study of the correlation between surface roughness and cutting vibrations to develop an on-line roughness measuring technique in hard turning, 7A746
KIM, HONG-SEOK: Expert system for multi-stage cold-forging process design with a re-designing algorithm, 6A556
KIM, HR: Dynamic rheological method to study the interaction between starch and lipids, 4A905
KIM, HS: Heat transfer correlation for natural convection in a meniscus-shaped cavity and its application to contact melting process, 11A1122
KIM, HYOUNG WOOK: Effects of thermomechanical treatments on low cycle fatigue properties of Ti-3Al-8V-6Cr-4Mo-4Zr alloy, 7A1292
KIM, HYUK: Semi-active suspension with preview using a frequency-shaped performance index, 4A381
- Feedforward neuro-controlled active suspension using frequency and time-mixed shape performance index - Part 1: Control logic and performance, 8T327
KIM, HYUNG MIN: Heating and ignition of combustible dust layers on a hot surface: Influence of layer shrinkage, 11A1271
KIM, HYUNG-JONG: Study on process improvements of multi-stage deep-drawing by the FEM, 6A562
KIM, HYUNG-JUN: Effects of retained austenite on dry sliding wear behavior of carburized steels, 11A809
KIM, II: Suppression of sea-floor-scattered energy using a dip-moveout approach: Application to the mid-ocean ridge environment, 11A1378
KIM, IN SUP: Ultrasonic inspection of long steel pipes using Lamb waves, 8A700
KIM, IY: Shape of an evaporating completely wetting extended meniscus, 10A1281
KIM, J: Design of optimal four-wheel steering system, 3A363
- Analysis of free vibration of structural-acoustic coupled systems - Part I: Development and verification of the procedure, 6A228
- Analysis of free vibration of structurl-acoustic coupled systems - Part II: 2D and 3D examples, 6A229
- Numerical study of turbulent supersonic isothermal-wall channel flow, 6A921
- Stability analysis of the human controlled vehicle moving along a curved path, 7A408
- Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, 10A1219
- New analysis method for a thin beam impacting against a stop based on the full continuous model, 10A274
- New analysis method for general acoustic-structural coupled systems, 10A338
KIM, J-D: Development of a micro-positioning grinding table using piezoelectric voltage feedback, 4A645
KIM, JAE WOOK: Optimized compact finite difference schemes with maximum resolution, 10A39
KIM, JAE-MIN: Axisymmetric elastodynamic infinite elements for multi-layered half-space, 4A250
KIM, JAEHWAN: Finite element-optimization methods for the active control of radiated sound from a plate structure, 7A351
- Finite-element modeling of a smart cantilever plate with comparison with experiments, 11A10
KIM, JAI B: Tension tests of heavy-duty anchors with embedments of 8 to 19 inches, 11A700
KIM, JANG-KYO: Damage modes in impact loading of glass woven fabric composites, 12A752
KIM, JEONG DU: Size effect of micro-cutting force in ultraprecision machining, 9A735
KIM, JEONG K: Reinforcement of bone cement around prostheses by pre-coated wire coil: A FEM study, 2A1316
KIM, JEONG-DU: Study on the optimization of the cylindrical lapping process for engineering fire-ceramics (Al_2O_3) by the statistical design method, 3A420
- Simulation for the prediction of surface-accuracy in magnetic abrasive machining, 3A624
- Simulation of optimum control for electro-discharge dressing using neural networks, 4A659
- Development and FE analysis of the finishing system using rotating magnetic field, 4A654
KIM, JEONG-TAE: Model-uncertainty impact and damage-detection accuracy in plate girder, 2A707
KIM, JG: Simple and efficient mixed FE for axisymmetric shell analysis, 11A532
KIM, JH: Cavitation and Gas-Liquid Flow in Fluid Machinery Devices - 1995 ASME/JSME Fluids Eng Conf, 2N34
- Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8, 9N22
- Onset of flow reversal and penetration length of natural convective flow between isothermal vertical walls, 3T1045
- Numerical study on combustion of a liquid fuel droplet, 12A1319
KIM, JI-HEON: Postprocess method using displacement field of higher order laminated composite plate theory, 7A644
KIM, JIN HEE: Effects of geometries, clearances, and friction on the composite multipin joints, 9T1030
KIM, JIN HONG: Stress analysis of a stepped shaft under remote torsion, 3A425
KIM, JS: Acoustic-instability boundaries in liquid-propellant rockets: Theoretical explanation of empirical correlation, 11A1308
KIM, JW: Accurate vibration analysis of simply supported rhombic plates by considering stress singularities, 5A135
- Corner stress singularity effects on the vibration of rhombic plates with combinations of clamped and simply supported edges, 12A159
KIM, JY: Flow distribution and pressure drop in diffuser-monolith flows, 5A1227
- Creep-fatigue crack growth behavior of 304 stainless steel at 650°C, 7A782
KIM, K: Response of short cracks in high-strength steels to fatigue loadings - Part I: Behavior in air and freely corroding in seawater, 5A600
- Response of short cracks in high-strength steels to fatigue loadings - Part II: Behavior in seawater under cathodic polarization, 5A601
KIM, K-J: Modal properties of beams and plates on resilient supports with rotational and translational complex stiffness, 7A187
KIM, K-S: Numerical simulation of shock waves in linear-elastic plates with curvilinear boundaries and material interfaces, 2A161
KIM, K-Y: Noncontacting strain measurements during tensile tests, 10A856
KIM, KC: Vibration analysis of rectangular isotropic thick plates using Mindlin plate characteristic functions, 4A180
- Effect of transverse convex curvature on heat transfer from heated cylinders with axisymmetric backward-facing steps, 8T1100
- Flow and heat transfer measurements of a wall attaching offset jet, 12A1226
KIM, KI HYUN: Transport Phenomena in Thermal Engineering - Proc of 6th Int Symp, Seoul, Korea, 9N29
KIM, KI SUP: Computation of the turbulent flow field around an aerofoil by k-ε-γ model in a non-staggered, C-type single-grid system, 4A1090
KIM, KI-OOK: Efficient higher-order shell theory for laminated composites, 9A594
KIM, KS: Characterization of elevated temperature crack growth in Hastelloy-X using integral parameters, 5A627
- Elastic-plastic analysis of crack propagation with branching, 9A810
KIM, KUG WEON: Development of a thermo-viscoplastic cutting model using FEM, 5A558
KIM, KWAN YEOP: Solution for spin-up from rest of liquid with a free surface, 12A1045
KIM, KWANG YUL: Transient elastic waves in a transversely isotropic plate, 12A215
KIM, KY: Determination of all elastic constants of orthotropic plate specimens from group velocity data, 6T693
KIM, KYUNG-SUK: Micromechanics of fiber pull-out, 12A727
KIM, KYUNG-WOONG: Experimental study on the thermohydrodynamic lubrication of tilted pad thrust bearings, 6T1050
KIM, M-E: Separation and identification of traveling wave modes in rotating disk via directional spectral analysis, 4A235
KIM, MAN YOUNG: Numerical analysis of conduction, convection, and radiation in a gradually expanding channel, 12A1254
KIM, MC: Inelastic buckling of tapered members with accumulated strain, 8A498
KIM, MEUNG JUNG: Boundary element method in evaporative laser cutting, 9A106
KIM, MI-YOUNG: p-version of the mixed-FEM for nonlinear second-order elliptic problems, 5A28
KIM, MIN-HO: Postprocess method using a displacement field of higher-order shell theory, 9A595
- Efficient higher-order shell theory for laminated composites, 9A594
KIM, MJ: Evaporative material removal process with a continuous wave laser, 1A736
KIM, MOON-YOUNG: Spatial stability analysis of thin-walled space frames, 7A649
KIM, MS: Single-phase heat transfer and pressure drop characteristics of an integral-spine fin within an annulus, 11A1219
KIM, NAKSOO: Study on process improvements of multi-stage deep-drawing by the FEM, 6A562
KIM, NAM-HYUN: Geometrical tolerances: Improved linear approximation of least squares evaluation of circularity by minimum variance, 5A61
KIM, S: Boundary Elements XVII, 2N1
- Flow field and performance characteristics of combustor diffusers: A basic study, 5A1279
- Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, 6A1045
- Experimental and numerical study of orifice discharge coefficients in high-speed rotating disks, 11A894
KIM, S-H: Aeroelastic analysis of a flexible airfoil with freeplay nonlinearity, 12A267
KIM, SANG DONG: Preconditioning cubic spline collocation discretizations of elliptic equations, 4T74
KIM, SANG KEUN: Study on the optimum structural design of surface effect ships, 6A726
KIM, SANG SOO: Transport of a condensable species in nonisothermal tube flow, 4A1186
KIM, SANG-WOOK: Near- and far-field plume studies of a one-kilowatt arcjet, 6A1217
KIM, SEO YOUNG: Forced convection from an isolated heat source in a channel with porous medium, 6A1098
KIM, SEONGJAI: Parallel multidomain iterative algorithms for the Helmholtz wave equation, 2A236
KIM, SEUNG JO: Effects of geometries, clearances, and friction on the composite multipin joints, 9T1030
KIM, SEUNG-HO: Aeroelastic analysis of a flexible control surface with structural nonlinearity, 1A1109
KIM, SEUNG-JO: Finite element analysis of laminated composites using an unmixing-mixing viscoplastic model, 8T440
KIM, SEUNG-WOO: Geometrical tolerances: Improved linear approximation of least squares evaluation of circularity by minimum variance, 5A61
KIM, SEUNGHWAN: Analysis of the separatrix map in Hamiltonian systems, 6A97
KIM, SJ: Equivalent forces and wavenumber spectra of shaped piezoelectric actuators, 4A395
- Conjugate mixed convection in a channel: Modified five percent deviation rule, 7A1218
- Closure statements on the Brinkman-Forchheimer-extended Darcy model, 8A1318
KIM, SOO-HYUN: Adaptive control for time optimal tracking systems, 10A405
KIM, SUNG CHIL: Structural analysis of a three span continuous PC voided slab deck by 3D FEM (Japanese), 7A947
KIM, SUNG J: Quasi-static control of natural frequencies of composite beams using embedded piezoelectric actuators, 1A138
KIM, SUNG JIN: Influence of piezo-actuator thickness on the active vibration control of a cantilever beam, 3A110
- Convective heat transfer in porous and overlying fluid layers heated from below, 4A1168
KIM, SUNG-BO: Spatial stability analysis of thin-walled space frames, 7A649
KIM, SUNG-HYUN: Modeling of Bioactive Carbon Adsorbers: A hybrid weighted residual-finite difference numerical technique, 9A92
KIM, SUNG-JIN: Fabrication and mechanical properties of 2024 Al-SiC_p composites by mechanical alloying, 7A761
KIM, SY: Effective elastic moduli in fiber reinfwced composite with circular-arc shaped interfacial cracks, 1A813
- Noise and vibration analysis of an S-cam drum brake, 7A203
KIM, TAEHEE: Feedforward neural networks for fault diagnosis and severity assessment of a screw compressor, 2A140
- New feedforward neural network structural learning algorithm: Augmentation by training with residuals, 5A344
KIM, TJ: Erosion model of polycrystalline ceramics in abrasive waterjet cutting, 12A720
KIM, TY: Thermal development of radiatively active pipe flow with nonaxisymmetric circumferential convective heat loss, 12A1255
KIM, W-W: Effect of subgrid models on the computed interscale energy transfer in isotropic turbulence, 8A975
KIM, WHAN W: New ultrasonic technique for detection and sizing of small cracks in studs and bolts, 9A867
KIM, WON NYUN: Mass transfer characteristics for a rotating cup-like cylinder, 1A1303
- Effect of aspect ratio on mass transfer from a rotating cup, 11T1257
KIM, WON-YOUNG: Instrument responses of digital seismographs at Borovoye, Kazakhstan, by inversion of transient calibration pulses, 11A1388
KIM, WOO-BUM: Simplified method to determine the moment-curvature relationships of a damaged tubular segment, 9A975

KIM, WOO-SEUNG: Model of the effect of alloy content on shell strength during solidification of binary alloys, 5A1194
KIM, Y: Enriched FE analysis for a delamination crack in a laminated composite strip, 7A860
- Optimized feedforward design scheme unifying regulator and command generator tracker, 12A390
KIM, Y-B: Quasi-periodic response and stability analysis for a nonlinear Jeffcott rotor, 7A207
- Quasi-periodic response and stability analysis for nonlinear systems: A general approach, 11A95
KIM, Y-J: Criterion for plane strain, fully plastic, quasi-steady crack growth, 6A646
KIM, YANG-HANN: Spherical beam-forming and music methods for the estimation of location and strength of spherical sound sources, 2A240
- Estimation of locations and strengths of broadband planar and spherical noise sources using coherent signal subspace, 3A296
- Minimization of bias error due to windows in planar acoustic holography using a minimum error window, 3A302
- Bias error due to windows for the Wigner-Ville distribution estimation, 5A301
KIM, YK: Staged curing of composite materials, 7A760
KIM, YOHNGJO: Analysis of external spline gear forming by an upper bound energy method, 9A692
- Upper bound analysis of near-net shaped forging of gear coupling form, 9A694
KIM, YONG H: Buckling and postbuckling of composite panels with cutouts subjected to combined edge shear and temperature change, 11A547
- Buckling and postbuckling of composite panels with cutouts subjected to combined loads, 12A619
KIM, YONG-WOO: Optimal strain locations of 2D continuum elements in terms of field-consistency, 10A529
KIM, YONG-WOO: Numerical reduced minimization theory for beam elements under nonuniform isoparametric mapping, 10A602
KIM, YOON YOUNG: Stress analysis of a stepped shaft under remote torsion, 3A425
- Free vibration analysis of membranes using wave-type base functions, 10A169
KIM, YOUDAN: Eigenvector derivatives for mechanical second-order systems, 1A81
- Optimal design of composite lifting surface for flutter suppression with piezoelectric actuators, 3A224
- Optimal sizing and placement of piezo-actuators for active flutter suppression, 11A739
KIM, YOUNG IK: Effect of damage growth on the aeroelastic response of composite structures, 6A661
KIM, YOUNG KAG: Transport of a condensable species in nonisothermal tube flow, 4A1186
KIM, YOUNG SIK: Interior energy focusing within an elasto-plastic material, 8A436
KIM, YOUNG SOO: Bi-axial buckling behavior of composite rectangular plates, 1A652
KIM, YOUNG-JIN: Prediction of fracture resistance curves from tensile data for carbon steel piping materials, 12A747
KIM, YOUNGCHAN: Progressive failure analysis of laminated composite beams, 10A802
KIM, YOUNGMIN: Numerical simulation of post peak deformational behavior of rocks under uniaxial compression tests (Japanese), 4A627
KIM, YS: Pseudo-sensor-output-feedback approach for semi-active structural control, 5T699
- Experimental study of FPS system in bridge seismic isolation, 6A1280
- Corner stress singularity effects on the vibration of rhombic plates with combinations of clamped and simply supported edges, 12A159
KIM, YUJUN: Delamination buckling of a short orthotropic tube under axial compression, 3A555
KIM, YW: Simultaneous measurement of surface temperature and heat flux using a composite slab, 8A1121
KIM, YY: Simple and efficient mixed FE for axisymmetric shell analysis, 11A532
KIMBARA, S: Strength test over the high strength bolted joints in steel deck with large scale specimens (Japanese), 11T833
KIMBELL, WA: Use of iron salts to control dissolved sulfide in trunk sewers, 3T1397
KIMMINS, ST: Creep deformation and rupture of low alloy ferritic weldments under shear loading, 8A407
KIMOTO, H: Elastic-plastic analysis of a crack parallel to the interface, 8A630
KIMURA, F: Heat transfer and fluid flow of natural convection adjacent to upward-facing horizontal plates, 2A1092
- Enhancement of natural-convection heat transfer from a horizontal heated plate using grid fins, 7A1265
- Extraction of form error features using the Simulated Annealing Method with Bezier Templates (Japanese), 11A713
KIMURA, I: High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
KIMURA, K: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, 1A1138
- Study on driving ability of elderly drivers and their evaluation of traffic environment (Japanese), 1A1471
- Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, 1A1139
- Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), 5A259
- Shock tube and modeling study of ketene oxidation, 12A1309
KIMURA, M: Capabilities of small computers as image analyzer for quantitative flow visualization, 5A1116
- Asymptotic estimation for the condition numbers in BEM, 10A50
KIMURA, S: Conjugate free convection due to a heated vertical plate, 6A1075
- Laminar free convection in inclined rectangular enclosures, 11A1123
KIMURA, T: Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), 4A623
- Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), 7A708
KIMURA, Y: Initiation and growth characteristics of corrosion pits in steels (Japanese), 4T679
- Influence of surface roughness on friction and scuffing behavior of cast iron under sparse lubrication, 8A795
KINCHELOE, M: On-line learning neural-network controllers for autopilot systems, 3A390
KIND, RJ: Retained lift: Theoretical difficulties with the concept and an alternative explanation of observations, 5T1061
KING , PR: Effective properties for flow calculations, 4A1319
KING, AC: Interaction of a moving fluid-fluid interface with a flat plate, 1A1032
KING, CHUNG-YEONG: Two dof controllers for multivariable model-matching systems: Application to a continuous stirred tank reactor, 8A337
KING, DB: Multifilament source model for short-range underwater acoustic problems involving pentrable ocean bottoms, 7A331
KING, DM: Changes to wave parameters in the surf zone due to wind effects (French), 8A199
KING, GJW: Analysis of cantilever sheet-pile walls in cohensionless soil, 1A699
- Accuracy of an electromagnetic tracking device: A study of the optimal operating range and metal interference, 10A1483
- Numerical studies of the moment carrying capacity of a short pier foundation in a clay soil, 12A654
KING, GP: Dynamical characterization of the spatiotemporal structures in the wake of a bluff body, 8A961
KING, JR: Development of singularities in some moving boundary problems, 4A938
- Persistence of corners in free boundaries in Hele-Shaw flow, 4A941
KING, KW: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
KING, LB: Near- and far-field plume studies of a one-kilowatt arcjet, 6A1217
KING, LS: Wall temperature effects on the stability of laminar boundary layers, 2T953
KING, ME: Nonlinear wave transmission in a mono-coupled elastic periodic system, 1A193
KING, MJ: Effective properties for flow calculations, 4A1319
- Three-dimensional, time-dependent analysis of flow through a bileaflet mechanical heart valve: Comparison of experimental and numerical results, 8A1436
KING, MK: Examination of chemical approaches to stabilizing composite-propellant combustion, 11A1277
KING, PI: Stall inception in single-stage, transonic compressors with straight and swept leading edges, 4A1117
KING, PR: Upscaling permeability: Error analysis for renormalization, 12A1355
KING, RA: Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, 4A1025
KING, WS: Joint characteristics of traditional Chinese wooden frames, 12A991
KING, WW: Introduction to Dynamics, Third Edition, 10N11
- Engineering Mechanics: Statics, Third Edition, 10N45
KING-HELE, JA: Effects of axial temperature gradients in the wall of a detonator delay element, 5A1251
KINGMA, I: Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model, 8A1412
KINGSLEY, GR: Displacement-based seismic design of multi-dof bridge structures, 1A1393
- Problems and certainties in the experimental simulation of the seismic response of MDOF structures, 7A1380
KINJO, H: Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, 9A413
KINLOCH , AJ: Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, 9A818
KINLOCH, AJ: Comments on mixed-mode fracture in adhesive joints, 10A807
KINNAERT, M: Design of redundancy relations for failure detection and isolation by constrained optimization, 8A346
KINNEAR, D: Role of Ekman pumping in confined, electromagnetically-driven flows, 4A1097
KINNEY, JH: Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, 9A1441
KINOSHITA, M: CMP planarization: Process, Machine, and consumables (Japanese), 11T613
KINOSHITA, S: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
KINOSHITA, T: Response statistics of moored offshore structures, 5A986
KINOUCHI, K: Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, 9A1002
KINOUE, Y: Mass transfer into a liquid film flowing concurrently with gas flow: Correlation of average mass-transfer coefficient, 2A1166
KINRA, VK: Numerical investigation of the elastothermodynamic damping of fiber-reinforced metal-matrix composites, 5T486
- Role of thermoelectric heat transfer in the design of SMA actuators: Theoretical modeling and experiment, 7A1239
- Equivalence of the mechanical and entropic descriptions of elastothermodynamic damping in composite materials, 11A467
KINSELLA, K: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
KINSEY, A: Post-impact compressive behavior of low temperature curing woven CFRP laminates, 1A535
KINSEY, RJ: Nonlinear control of dual-spin spacecraft during despin through precission phase lock, 6A296
KINZEL, G: Failure and wrinkling criteria and mathematical modeling of shrink and stretch flanging operations in sheet-metal forming, 3A610
KINZL, L: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and T_{GFB}-release in response to cyclic strain, 5A1373
KIOUSIS, PD: Strength and ductility of rectangular concrete columns: A plasticity approach, 8A753
- Plasticity computations for the design of the ductility of circular concrete columns, 12A846
KIPNIS, LA: Slip line at the end of a punch impressed into a half-plane, 2A376
- Slip line at the cut end on the interface of different media (Russian), 7A572
KIRATLI, BJ: Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316
KIRATZI, AA: Moment-tensor summation to derive the active crustal deformation in Japan, 12A1382
KIRBY, JT: Dynamic analysis of a ten-story reinforced concrete building using a continuum model, 4A204
KIRBY, PA: Calculation of serviceability deflections for non-sway frames with semi-rigid connections, 11A771
KIRBY, RL: Wheelchair stability: Effect of body position, 6A1377
KIRCANSKI, M: Kinematic isotropy and optimal kinematic design of planar manipulators and a 3 dof spatial manipulator, 7A434
KIRCHNER, HOK: Cracks at mortar-stone interfaces, 2A643
KIREENKOV, AA: Effect of thermoelastic material behavior on the dynamics of a hemispherical resonator gyro, 5A84
KIREMIDJIAN, AS: Stochastic model for spatially and temporally dependent earthquakes, 2A1238
KIRGETOV, AV: Reconstructing trajectories from measurement data, 1A401
KIRICHENKO, VG: Prediction of critical value of the axial force of the imperfect cylindrical shell, 9A587
KIRIGAI, A: Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478
KIRILLOVA, FM: Asymptotic optimization of linear dynamical systems with controls of different strengths, 4A348
KIRINOV, YV: Disturbance growth control in a boundary layer, 10A1134
KIRK, DL: Design of an FECG scalp electrode fetal heart rate monitor, 7T1410
KIRK, M: Constraint Effects in Fracture Theory and Applications: Second Volume - STP 1244, 5N22
KIRK, MT: Second ASTM-ESIS Symposium on constraint effects in fracture: An overview, 1T801
KIRK, RG: Design procedure for evaluating stability of turbomachinery supported on squeeze film dampers, 5T1025
- Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, 8A821
- Transient response technique applied to active magnetic bearing machinery during rotor drop, 10A1016
KIRKHAM, DA: Influence of blade wakes on the performance of interturbine diffusers, 11A1064
KIRKLAND, TP: Effect of cyclic loading on the creep performance of silicon nitride, 10A1394
KIRKNER , DJ: Reliability analysis of structural components utilizing the strain-life method, 8A601
KIRKWOOD, MG: Overlapped K joints in circular hollow sections under axial loading: An investigation of the factors affecting the static strength using numerical modeling, 8A770
KIRPICHENKO, YE: Micromechanics and electrical conductivity of point contacts in boundary lubrication, 12T1188
KIRSCH, U: Exact structural reanalysis by a first-order reduced basis approach, 6A715
- Integration of reduction and expansion processes in layout optimization, 8A713
KIRWIN, PJ: Variant of the low-Reynolds-number two-equation turbulence model applied to variable property mixed convection flows, 6A1092
KISELEV, AB: Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, 10A537
KISELEV, DB: Thin sheet metal (membrane) suspended roof structures, 10A613
KISELEV, JN: Surface damage under dynamic loading, 12T936
KISHI, E: Two-dimensionally quantized friction observed with 2D frictional force microscope, 4T836
KISHI, K: Investigation on the cutting mode and behavior of single crystalline silicon under single point diamond cutting, 3A622
- Development of artificial soft rock (Japanese), 4T1279
- Edge-chipping generation of ferrite in slot grinding (Japanese), 11A604
KISHI, N: Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), 11A570
KISHI, S: Study for a new type internal gear pump, 9T1241
KISHI, T: Multi-component model for hydration heat of Portland cement (Japanese), 6A1158
KISHIDA, K: Fundamental study on seismic wave propagating property through several kinds of rock joint under uniaxial stress (Japanese), 4T1325
- Finite element analysis of dynamic behavior of viscoelastic materials using FFT, 7A19
KISHIMOTO, H: Cyclic Fatigue in Ceramics - Current Japanese Materials Research, Vol 14, 7N14
KISHIMOTO, J-I: Thermal residual stresses in bonded dissimilar materials and their singularities, 10A1340
KISHIMOTO, K: Wavelet analysis of dispersive stress waves, 3A56
- Boundary element analysis of thermoelastic contact problems, 4A1237
KISHIMOTO, Y: Energy flow modeling of interconnected structures: A deterministic foundation for statistical energy analysis, 3A108
- Stability criterion for Kelvin-Helmholtz mode in a cylindrical plasma, 4A1099
KISHINAMI, K: Combined forced and free laminar convective heat transfer from a vertical plate with coupling of discontinuous surface heating, 4A1157
KISHINAMI, T: Study for representation and application about design and manufacturing communication model (2nd Report) -Integrated model for design and manufacturing activity- (Japanese), 9T469
- Information model of cutting tools for machining center in tool assembly: Representing models of parts structure, assembly, nominal size, and real size (Japanese), 12T468
KISHINE, N: Measurement of Young's modulus and stress analysis of a magnetic thin film, 7A868
KISHIRO, T: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753
KISHORE, NN: Application of multi dimensional cluster analysis in identification of defects in fiber composites, 2A696
KISIELINSKI, M: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
KISILOWSKI, J: Influence of riding speed on vehicle track-system dynamics in the presence of track random irregularities, 3A160
KISLY, AA: Peculiarities of free and induced oscillations in the systems with dry and viscous friction (Russian), 7T124
KISO, E: Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), 1A1389
KISS, T: Experimental and numerical study of transonic turbine cascade flow, 6A1026
- Direct measurement of skin friction in a turbine cascade, 8A960

KISSI, N: Slip flow of polybutadiene through fluorinated dies, 1T715
KISSIL, A: Mode shape expansion techniques for prediction: Experimental evaluation, 9A245
KISSLING, WM: Reservoir storage and containment of greenhouse gases, 10A1417
- Reservoir storage and containment of greenhouse gases - II: Vapor-entry pressures, 10A1418
KISTLER, AL: Scaling of the bursting frequency for turbulent boundary layers approaching separation, 10T1132
KISTLER, JS: Further studies on effects of thermophoresis on seeding particles in LDV measurements of strained flames, 9A1335
KISTOVICH, YV: Reflection of beams of internal gravity waves at a flat rigid surface, 7A272
KITA, E: Adaptive BEM for plane quasi-harmonic equation: Application to stress analysis of shaft, 4A537
- Boundary-type sensitivity analysis scheme based on indirect Trefftz formulation, 5A44
- Trefftz method: An overview, 5A53
- New boundary-type scheme for sensitivity analysis using Trefftz formulation, 11A60
KITA, S: Trajectory planning of redundant manipulator using genetic algorithm, 7T438
- Active noise control of turning machine using neural network, 9T372
KITA, Y: Experimental study of the flow in a helical circular tube, 1A1059
KITADA, T: Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), 1A651
KITADE, N: Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, 1A558
KITADE, S: Fiber optic method for detection of impact induced damage in composite laminates (Japanese), 3A742
KITAGAWA, H: Solid-liquid phase-change heat transfer around two horizontal, vertically spaced cylinders: An experimental study on the effect of density inversion of water, 4A1209
- Elastic-plastic analysis of a crack parallel to the interface, 8A630
- Atomistic mechanism of plastic deformation and fracture: Molecular dynamics simulation, 12T712
KITAGAWA, M: Suppression of free surface roughening of metal with plastic deformation, 6A826
KITAGAWA, S: Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), 4A818
KITAGAWA, ST: Measurement of in-plane vibration by using an improved laser speckle interferometer with the double-aperture method, 3A743
KITAGAWA, T: Computer simulation of 3D machining with cut-away tools, 1T721
KITAGAWA, Y: Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, 5A1329
KITAHARA, T: Friction characteristics and adhesion force under low normal load, 5A781
- Effect of lubricating oils on piston ring friction and scuffing, 10A1386
KITAHARA, Y: Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
KITAIGORODSKY, AB: Natural vibrations of an anisotropic plate, 9A201
KITAJIMA, H: Transient temperature response of functionally gradient material subjected to partial stepwise heating, 7A1246
KITAJIMA, I: Software analysis of SPM topographic image (Japanese), 2T711
KITAMURA, K: Heat transfer and fluid flow of natural convection adjacent to upward-facing horizontal plates, 2A1092
- Enhancement technique for natural-convection heat transfer from vertical finned plates, 2A1094
- Enhancement of natural-convection heat transfer from a horizontal heated plate using grid fins, 7A1265
KITAMURA, O: Large-scale grounding experiments and numerical simulations, 12A858
KITAMURA, S: Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
KITAMURA, T: Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, 3A664
- Probabilistic inverse analysis for predicting the distribution of multiple internal defects, 4A693
- Physical meaning of creep damage parameters evaluated from distribution of grain boundary cavities on cross-section (Japanese), 7A794
- Analysis of direct current potential field around multiple random cracks, 10A865
KITANIDIS, PK: Concentration fluctuations and dilution in 2D periodic heterogeneous porous media, 9A1352
KITANO, A: Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706
KITANO, M: Tribology in clean environment - Part 1: Dust generation properties of silicon carbide ceramics, 6T806
KITAOKA, S: Evaluation of K_{II} using a copper foil when assessing frictional forces on crack surfaces, 10A836
- Mixed mode fatigue crack thresholds from bending and cyclic torsion of a plate, 11A634
- Effect of biaxial stress ratio on the propagation behavior of mode I surface cracks by the combination of plane bending and cyclic torsion, 12A709
KITAYAMA, K-I: Study of simple assembly method for compact optical modules used in telecommunications systems (Japanese), 2A330
KITAZONO, Y: Stability analysis on earth reinforcement by using the velocity field method (Japanese), 2A521
KITCHING, R: Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, 4A494
KITIPORNCHAI, S: Structural Stability and Design - Proc of Int Conf, Sydney, Oct-Nov 1995, 12N36
- Hybrid analysis of Lamb wave reflection by a crack at the fixed edge of a composite plate, 1A207
- Buckling of skew Mindlin plates subjected to in-plane shear loadings, 2A492
- Vibration of stiffened skew Mindlin plates, 3A133
- Dynamic response of flexibly jointed frames, 4A186
- Buckling and vibration of thick laminates on Pasternak foundations, 6A147
- Modeling the vibration of a variable thickness ellipsoidal dish with central point clamp or concentric surface clamp, 6A143
- Free vibration of cantilevered arbitrary triangular Mindlin plates, 7A158
- Vibration frequencies for elliptical and semi-elliptical Mindlin plates, 8A121
- Analytical buckling solutions for Mindlin plates involving free edges, 12A618
- Optimal locations of point supports in plates for maximum fundamental frequency, 12A819
- Optimal design of internal ring support for rectangular plates against vibration or buckling, 12A166
KITO, M: Study on the limit state design method for tunnel linings (Japanese), 4A823
KITOH, H: Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), 5A515
KITOH, O: Analytical solution to the viscous flows in curved duct with inlet swirl, 4A1036
- Low Reynolds number fully developed 2D turbulent channel flow with system rotation, 11A960
KIYA, M: Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf, 2N46
- Experiments on response of impinging-jet edge tone to edge misalignment and spanwise coherence of the jet, 5A260
KIYAMA, S: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737
KIYOHARA, S: Fabrication of 3D fine objects with focused energy beams (Japanese), 4T655
- Focused ion beam machining of diamond chips and probes, 9T729
KIYOHIRO, N: Development of the robotic travel aid "HITOMI", 11A372
KIYOMIYA, O: Mechanical properties of the composite beam using the permanent form reinforced with CFRP and its application to the pier (Japanese), 4T517
KIYONO, J: Simulation of stochastic waves by hybrid method of Kalman filter and Kriging techniques (Japanese), 5T107
- Simulation of emergency evacuation behavior during disaster by using distinct element method (Japanese), 11A1475
- Simulation of evacuation behavior in a disaster and its interaction with guide's instructions (Japanese), 11A1476
KIYONO, S: Profile measurement using software datums (Japanese), 2T343
- Development of an Ultra-precision angle sensor: Compensation of the thermal drift of the light source (Japanese), 5T686
- Non-contact measurement of a gear (4th Report): Development of a measuring system for tooth profiles using the optical 2 point method (Japanese), 5T822
- Analysis of overshooting phenomena in profile measurement by optical stylus sensor (Japanese), 7A871
- Simple and effective error separation method for roundness measurement, 7A898
- Improvement of interferometer accuracy with self-calibration of phase interpolation error (Japanese), 9A863
- Development of measurement system on angular profile of the polygon mirror surface (Japanese), 11A705
KIYOTA, M: Effect of surface geometry on steam absorption into a falling film of aqueous solution of LiBr, 9A1258
KIYOTA, T: Minimum energy control for single-input linear digital systems in z-domain, 6A337
KJELDSTEEN, P: Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, 12A877
KJELDSTEEN, PER: Comparative wear mapping techniques - II: Surface roughness and fractal dimension mapping of tungsten carbide-silicon carbide, 12A927
KLAAS, O: Error indicators for mixed FEs in 2D linear elasticity, 4A440
- Coupling of adaptively refined dual mixed FEs and BEs in linear elasticity, 5A422
KLAASSEN, GJ: Sand-dune geometry of large rivers during floods, 1T979
KLAES, K: Effects of blade design on centrifugal fan noise and performance, 1A285
KLAFFKE, D: Repeatability of friction and wear results and on the influence of humidity in oscillating sliding tests of steel-steel pairings, 4A828
- Comprehensive tribological characterization of thin TiN-based coatings, 5A798
- Advances in tribology: The materials point of view, 5A796
- Tribological characterization of thin hard coatings by reciprocating sliding tests, 6T839
KLAIBER, FW: Diaphragm effectiveness in pre-stressed-concrete girder bridges, 1A911
- Service load test of 1:3 scale shell bridge model, 7A966
KLAMKA, J: Constrained controllability of retarded dynamical systems, 1A365
- Approximate relative controllability of retarded dynamical systems, 10A428
KLAR, A: Domain decomposition for kinetic problems with non-equilibrium states, 10T1110
KLAR, P: Case studies on the elastic-plastic creep in the metallic matrix of fiber-reinforced composite materials, 8A451
KLARBRING, A: Nested approach to structural optimization in nonsmooth mechanics, 3A760
- Derivation and analysis of a generalized standard model for contact, friction, and wear, 8A786
KLATA, Z: Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, 6A178
KLAUSNER, JF: Unsteady forces on spherical bubbles, 1A1040
- Developing lengths in horizontal two-phase bubbly flow, 5A917
KLEBANOV, JM: Uniqueness of solutions of non-homogeneous and anisotropic problems of nonlinear viscoelasticity, 12A506
KLEEMAN, PW: Upper bound limit analysis using discontinuous velocity fields, 4A40
KLEIBER, M: Parameter sensitivity analysis in frictional contact problems of sheet metal forming, 1A719
- Computed-assisted hybrid reasoning in simulation and analysis of physical systems, 3A68
- Constitutive parameter sensitivity in elasto-plasticity, 6A402
- Parameter sensitivity in nonlinear thermal problems, 6A16
- Material derivative and control volume approaches to shape sensitivity analysis of nonlinear transient thermal problems, 8A714
- Shape sensitivity analysis for nonlinear steady-state heat conduction problems, 11A1194
KLEIMAN, JI: Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, 5A249
KLEIN, DL: Nonlinear growth of the shock-accelerated instability of a thin fluid layer, 1A240
KLEIN, K: Near-field acoustic intensity mapping using a closed surface, 1A348
KLEIN, P: Moment arm length variations of selected muscles acting on talocrural and subtalar joints during movement: An *in vitro* study, 6A1315
KLEIN, R: Theoretical and experimental studies of slender vortex filaments, 2A872
- Semi-implicit extension of a Godunov-type scheme based on low Mach number asymptotics - I: 1D flow, 2T912
KLEIN, SA: Investigation of minute solar radiation data, 1A1428
- High-power multi-stage Rankine cycles, 5A1121
KLEIN-NULEND, J: Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, 5A1383
KLEINBOCK, DY: Nonlinear interface dynamics in Hele-Shaw flows, 4A940
KLEINER, BH: Technical report: European company examples of excellent quality management, 2T351
KLEINER, M: Three-dimensional LDA measurements of the flow field inside an axial gas turbine rotor, 9A1246
KLEINMAN, RE: Asymptotic and a posteriori error estimates for BE solutions of hypersingular integral equations, 10A54
KLEINSTREUER, C: Computational analysis of convection heat transfer to non-spherical particles, 2A1081
- Numerical investigation and prediction of atherogenic sites in branching arteries, 5A1393
- Focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries, 11A1464
KLEIS, SJ: Determining screw axes using holographic interferograms, 6A113
- Two-region model for gradient modification of salt-gradient solar ponds by radial injection, 7A1399
KLEISER, L: Comparison of temporal and spatial direct numerical simulation of compressible boundary-layer transition, 9A1141
- Subharmonic transition to turbulence in a flat-plate boundary layer at Mach number 4.5, 12A1102
KLEMM, P: Comparison of results of estimation of thermal energy consumption carried out by simulation method and balance sheet method (Polish), 10A1452
KLEPP, HJ: Existence and uniqueness of solutions for a single-dof system with two friction-affected sliding joints, 1A950
- Kinetic friction locking for multi-body systems with friction, 2A68
- Existence and uniqueness of solutions for accelerations for multi-body systems with friction, 2A67
- Trial-and-error procedure for single-dof systems with friction-affected sliding joints, 10T138
KLETTE, R: Fast algorithm for edge structure detection in monochrome and color images, 6A282
KLEWICKI, JC: Data reduction methods for flow tagging velocity measurements, 7A1196
KLEYNER, I: Mathematical model for bore-injected cement grout installations, 3A588
KLIGER, IR: Shear properties of components used in stressed-skin panels, 11A701
KLIM, Z: Cutting tool reliability analysis for variable feed milling of 17-4PH stainless steel, 12A984
KLIMAN, V: Fatigue life estimation under random loading with respect to inhomogeneity of the mechanical properties of the material, 6A611
KLIMCZAK, T: Three dimensional characteristic of surface microgeometry in tribology (Polish), 6A838
KLIMENKO, AY: PDF integrals for self-similar turbulent flows, 5T1259
KLIMENKO, YG: Heat exchange between a gas suspension and a wall, 10A1283
KLIMENT'EV, AV: Analysis of forced vibration in cyclic mechanisms with strongly interacting flexural and torsional subsystems, 3A855
KLINE, R: Parallel processing approach to acoustic tomography, 9A386
KLINGENBERG, DJ: Microstructural investigation of the nonlinear response of electrorheological suspensions - Part II: Oscillatory shear flow, 4A899
- Microstructural investigation of the nonlinear response of electrorheological suspensions - I: Start-up of steady shear flow, 4A898
KLINGER, RE: Numerical techniques for predicting brittle failure of reinforced concrete planar structures, 2A759
KLINGER, T: Spatio-temporal bifurcations in plasma drift-waves, 9A300
KLINGNER, RE: Tensile capacity of anchors with partial or overlapping failure surfaces: Evaluation of existing formulas on an LRFD basis, 5A724
KLINK, BSA: Introduction to Motion Based Design, 12R4
KLIPPEL, N: Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
KLISINSKI, M: Finite deformation analysis of motion of granular material in a silo, 3A1251
KLOECK, B: Sensors: A Comprehensive Survey - Mechanical Sensors Series, Vol 7, 6R16
KLOEDEN, P: Collapsing effects in numerical simulation of a class of chaotic dynamical systems and random mappings with a single attracting center, 2A74
- Robustness of dynamical systems to a class of nonsmooth perturbations, 4T112
KLOEPPNER, G: Simplified modeling of NO formation in technical combustion processes, 1A1327
KLOOSTERZIEL, RC: Evolution of near-inertial waves, 4A275
KLOPOTEK, MA: Recovery of structure of looped jointed objects from multiframes, 1A79
- Distribution of dof over structure and motion of rigid bodies, 6T281
- Rigid body structure and motion from two-frame point-correspondences under perspective projection, 10T69
KLOSINSKI, M: Vegetation cover of earth structures (Polish), 3A589
KLOSOWSKI, P: Comparative study of vibrations of elasto-viscoplastic shells and plates, 1A148
KLOSTER, N: Bifurcations near 1:2 subharmonic resonance in a structural dynamics model, 3A126
KLOUCEK, P: Analysis of a class of nonconforming FE for crystalline microstructures, 12A8
KLUBOVICH, VV: Improvement of wear resistance of crankshaft journals, 6T848
KLUEVER, CA: Optimal low-thrust 3D earth-moon trajectories, 1T400
- Optimal feedback guidance for low-thrust orbit insertion, 1A398
- Near-optimal low-thrust lunar trajectories, 8T236
- Electric-propulsion spacecraft optimization for lunar missions, 10A1405
KLUG, J: Efficient modeling of postbuckling delamination growth in composite laminates using plate elements, 6A625
- Analysis of cracked aluminum plates repaired with bonded composite patches, 7A631
KLUG, M: Application of front tracking techniques to the turbulent combustion processes in a single stroke device, 12A1322
KLUGE-WEISS, P: Nonlinear dielectric composites, 2A439
KLUSEK, Z: Observation of nonlinear scattering of acoustical waves at sea sediments, 7A341
KLUSMAN, SA: Forced response analysis and application of impact dampers to rotordynamic

vibration suppression in a cryogenic environment, 5A164
KLUTE, SM: Flow control over a maneuvering delta wing at high angles of attack, 9A1226
KLUWICK, A: Unsteady transonic nozzle flow of dense gases, 9A1095
KLYACHKO, S: Modeling of a vibrating plate in gas flow, 3A223
KLYUCHNIKOV, IA: Superheated vapor condensation on a superfluid helium surface, 1A1243
KLYUEV, NI: Gas flow with mass injection in a tube at high Reynolds numbers of injected flow, 6A963
- Flow of liquid in the open rectangular groove on the heat-pipe evaporator with an account for the oncoming vapor stream influence, 11A1180
KLYUSHNIKOV, VD: Problem of constitutive equations and contemporary thermomechanics, 3A6
KMIEC, KJ: Application of high resolution geometric moire method to fracture problems, 5T669
KMIECIK, M: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
KNABE, W: Settlement of a soil stratum subjected to an earthquake, 4A604
- Anisotropy of random fields in stochastic FEM, 9A17
KNAP, J: Comments on plasticity postulates and non-associative flow rules, 6A392
- Acceleration of convergence of waveform relaxation iterations for second order linear system, 10A65
KNAPP, WW: Comparison of daily solar radiation estimates for the NE US using the NE regional climate center and national renewable energy laboratory models, 3A1374
KNASMILLNER, RE: Using dynamic photoelasticity to evaluate the influence of parting planes on stress waves interacting with stopes, 7A1370
KNAUSS, WG: Nonlinear thermoviscoelastic stress and fracture analysis of an adhesive bond, 2A623
- Changes in the experimentalist's role in the future of mechanics: 1995 WM Murray lecture, 5A670
- Crack propagation in homogeneous and bimaterial sheets under general in-plane loading: Nonlinear analysis, 5A621
KNECHT, DJ: Optical radiations from interaction of effluent gases with the low-orbital atmosphere, 12A1306
KNECHTEL, B: Seismic behavior of older steel structures, 10A1432
KNESL, Z: Crack-particle interaction in a two-phase composite - Part II: Crack deflection, 6A658
KNESSL, C: Stability of linear shear flows in shallow water, 4A1069
KNIGHT JR, NF: Refined first-order shear-deformation theory and its justification by plane-strain bending problem of laminated plates, 2A476
- Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part I: Formulation, 4A247
- Buckling analysis of general triangular anisotropic plates using polynomials, 4A571
- Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part II: Single-processor implementation, 4A248
- Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part III: Parallel implementation, 4A249
- Nonlinear structural response using adaptive dynamic relaxation on a massively-parallel-processing system, 6A176
KNIGHT, CE: Two-step component-mode synthesis for the eigensolution of large systems, 12A193
KNIGHT, D: Three-dimensional shock and boundary-layer interaction using Reynolds stress equation turbulence model, 12A1106
KNIGHT, DD: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
- Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, 6A948
- Effects of compressibility, pitch rate, and Reynolds number on unsteady incipient leading-edge boundary layer separation over a pitching airfoil, 8A1008
KNIGHT, DW: Lateral shear in wide compound duct, 3T880
KNIGHT, JD: Nonlinear behavior of a magnetic bearing system, 5A831
KNIGHT, TC: Spall damage to concrete walls from close-in cased and uncased explosions in air, 5A613
KNIGHTLY, GH: Langmuir circulations when the Stokes drift has a cross-wind component, 4A264
KNIO, OM: Lagrangian simulation of a thin non-premixed flame in the field of an asymmetric layer, 12A1323
KNISELY, CW: Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, 12A1020
KNOBLES, DP: Practial application of the Galerkin method to the broadband calculation of normal modes for underwater acoustics, 1A350
KNOLL, DA: Newton-Krylov methods for low-Mach-number compressible combustion, 10A1380
KNOLL, G: Transient EHD connecting rod analysis: Full dynamic versus quasi-static deformation, 10A1220
KNOSPE, CR: Determination of power losses in high-speed magnetic journal bearings using temperature measurements, 1A1148
- Robustness of adaptive unbalance control of rotors with magnetic bearings, 6A330
- Microgravity isolation system design: A modern control analysis framework, 7A214
- Microgravity isolation system design: A case study, 7A215
- Microgravity isolation system design: A modern control synthesis framework, 7A213
- Practical solution to the deterministic nonhomogeneous LQR problem, 12A357
KNOTHE, K: Determination of temperatures for sliding contact with applications for wheel-rail systems, 4A839
KNOTT, JF: Transition from fibrous fracture to cleavage fracture, 1T803
- Investigation of crack closure and the propagation of semi-elliptical fatigue cracks in Q1N (HY80) pressure vessel steel, 6A600
- Effect of mixed mode I and II loading on the fracture surface of polymethyl methacrylate, 6A637
- Investigation of the role of residual stresses in the warm prestress effect - Part II: Analysis, 10A784
- Investigation of the role of residual stresses in the warm prestress effect - Part I: Experimental, 10A783
KNOTT, U: Technology demonstration nozzle for Mach 7 turboramjets, 5A1292
KNOWLES, JK: Representation of the elasticity tensor for isotropic materials, 1T451
- Decay of end-effects due to self-equilibrated loads, 6A377
KNOWLES, K: Computational studies of impinging jets using K-ε turbulence models, 10A1161
KNOWLES, TR: Analysis of close-packed brush-fiber interfaces for spacecraft thermal management, 5A738
KNUDSEN, BA: Analysis of splitting failures during the drawing of tungsten wire, 2A537
KNUDSEN, C: Bifurcations near 1:2 subharmonic resonance in a structural dynamics model, 3A126
KNUDSEN, KD: Dynamics of coaxial torsional resonators consisting of segments with different radii, material properties, and surrounding media, 1A960
- Automated high-pressure, high temperature, low-frequency viscometer, 1A970
KNUPP, P: Truncation error in grid generation: A case study, 3A42
- Moving mesh algorithm for 3D regional groundwater flow with water table and seepage face, 5T908
KNUPP, PM: Generalization of the Forchheimer-extended Darcy flow model to the tensor permeability case via a variational principle, 2A1213
KNUTH, EL: Composition distortion in MBMS sampling, 3A1240
KNYAZEVA, TM: Viscoplastic deformation and fracture of structural members under cyclic bending, 10A548
KNYSTAUTAS, R: Two-dimensional autocorrelation function analysis of smoked foil patterns, 3A211
KO, B: Acoustic control using a self-sensing actuator, 4A321
KO, CHING-CHANG: Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, 12A782
KO, CL: Analysis for the optimal performance of three-channel split-flow heat exchangers, 5A1177
KO, F: Textile composites, 10A576
KO, J: Affine fractal interpolation functions and wavelet-based FEs, 6A30
KO, JEONGHWAN: Conditioning of numerical boundary measures in wavelet Galerkin methods, 11A62
KO, JM: System and parametric identification of flexible connections in steel framed structures, 4A1333
KO, NWM: Effect of acoustic excitation on flow over a partially grooved circular cylinder, 1A1060
- Sound generated from the interaction of two inviscid coaxial vortex rings moving in the same direction, 4A307
- Sound generation by a vortex ring collision, 5A262
- Interaction of flow structures within bistable flow behind two circular cylinders of different diameters, 6A972
- Vortex pairing as a model for jet noise generation, 9A346
- Velocity and spanwise vorticity measurements in an excited mixing layer of a plane jet, 9T1169
- Numerical analysis of incompressible flow over smooth and grooved circular cylinders, 9A1089
KO, SHAO-YEN: Laminar heat transfer in square duct flow of aqueous CMC solutions, 4A1144
KO, SUNG H: Flexural wave reduction using a compliant tube baffle, 7A352
KO, YS: Experiment on the breakup of impinging droplets on a hot surface, 12A1090
KOBATAKE, Y: Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), 2T755
KOBAYASHI, A: Microscopic fatigue damage progress in CFRP cross-ply laminates, 4A672
KOBAYASHI, F: Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, 12A970
KOBAYASHI, H: Fatigue strength and fracture mechanism of ceramic-metal joints under cyclic bending, 1A757
- Fractal property of matrix cracking in GFRP cross-ply laminates, 3A707
- Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, 3A751
- Application of electric potential method to smart composite structures for detecting delamination, 3A736
- Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
- Experimental study on seismic responses of piping systems with friction - Part 1: Large-scale shaking table vibration test, 5A1320
- Analysis of the neural network recognition characteristics of six basic facial expressions, 12A1482
KOBAYASHI, K: Structural analysis of a three span continuous PC voided slab dock by 3D FEM (Japanese), 7A947
- Reduction of speed ripple due to transmission error of strain wave gearing by repetitive control, 9A1025
- Vibrations of hybrid ceramic ball bearings, 10A221
KOBAYASHI, KP: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126
KOBAYASHI, M: Horizontal coefficient of consolidation c_h (Japanese), 10A652
- Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), 10A920
- Thermal ratcheting of a cylinder subjected to a moving temperature front: Effects of kinematic hardening rules on the analysis, 11A457
KOBAYASHI, MH: Characteristic-based pressure correction at all speeds, 7A591
KOBAYASHI, S: Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391
- Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), 4A666
- Examination of the von Neumann paradox for a weak shock wave, 4A281
- Numerical calculation of view factors for an axially symmetrical geometry, 5A1176
KOBAYASHI, T: Experimental and Numerical Flow Visualization - 1995 ASME/JSME Fluids Eng Conf, 2N36
- Automatic detection of cracks on ceramic Al_2O_3 using diffusion of laser light, 3A738
- Development of scanning detection system for cracks on Al_2O_3 ceramics (Japanese), 5A618
- Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
- Effect of additives on friction, wear, and iron fluoride formation under perfluoropolyether fluid lubrication in vacuum and various atmospheres containing oxygen, 10A985
- Digital image processing of flow visualization (Japanese), 12T1201
KOBAYASHI, Y: Damage healing and strengthening behavior in intelligent mullite-SiC ceramics, 2A661
- Evaporative heat transfer at the evaporative section of a grooved heat pipe, 6A1149
- Vapor condensation behind a shock wave propagating through a large molecular-mass medium, 7T283
- Profile calculation method for form grinding wheels: Theoretical analysis of error transmission and its application, 7A753
- Analysis of free vibration of rotating disk-blade coupled systems by using artificial springs and orthogonal polynomials, 9A229
KOBAYASHII, T: Turbulent Flows - 1995 ASME/JSME Fluids Eng Conf, 1N33
KOBAYASI, K: Vaporization behavior of a single droplet impinging on a hot surface with a flame-sprayed ceramic coating and a pressurized atmosphere, 9A1262
KOBINE, JJ: Inertial wave dynamics in a rotating and precessing cylinder, 4A958
KOBORI, I: Experimental study of spherical Couette flow in magnetic fluids: Torque characteristics for outer sphere rotation, 4T957
KOBORI, T: Experimental verification of bounded-force control method, 7A1378
- Linear quadratic regulator for structure under on-line predicted future seismic excitation, 12A1408
KOBOS, AM: Influence of the surface liquid film on cylinder icing under marine conditions, 11A1441
KOBUS, CJ: Experimental investigation into forced, natural and combined forced and natural convective heat transfer from stationary isothermal circular disks, 2A1082
- Predicting the average heat transfer coefficient for an isothermal vertical circular disk with assisting and opposing combined forced and natural convection, 11T1135
- Modeling the local and average heat transfer coefficient for an isothermal vertical flat plate with assisting and opposing combined forced and natural convection, 11A1134
KOBYLARZ, T: Literal Nyquist stability criterion for MIMO control systems, 8A264
KOBZA, W: Aspects of simulation of the microclimate between apparel and it's user, 6A1182
- Damping the tension impulse in the thread on a frictional barrier, 10A160
KOBZAR, YM: Thermoelastic deformation of transversally-isotropic one-cavity hyperboloid of revolution, 9A1274
KOC, E: Investigation into the effects of orifice size, offset and overclamp ratio on the lubrication of slipper bearings, 10T1012
KOCABAS, F: Critical submergence for intakes in open channel flow, 6T873
KOCABIYIK, S: Viscous oscillatory flow about a circular cylinder at small to moderate Stroubal number, 4A1047
- Symmetrical flow past an accelerated circular cylinder, 8A963
- Accelerated flow around a sphere, 10A1072
KOCANDA, D: Behavior of fatigue short cracks in a medium carbon steel subjected to reversed torsion, 10A761
KOCANDA, S: Fatigue crack behavior in carburized and laser-hardened components made of 18HGM steel, 10A729
- Behavior of fatigue short cracks in a medium carbon steel subjected to reversed torsion, 10A761
KOCAOGLAN, E: Modeling and control of excavator dynamics during digging operation, 6A545
KOCATURK, T: Rectangular anisotropic (orthotropic) plates on a tensionless elastic foundation, 1A622
KOCH, DL: Simple shear flows of dilute gas-solid suspensions, 1A967
- Orientation in simple shear flow of semi-dilute fiber suspensions - 1: Weakly elastic fluids, 8A865
- Orientation in simple shear flow of semi-dilute fiber suspensions - 2: Highly-elastic fluids, 8A866
- Non-continuum lubrication flows between particles colliding in a gas, 11A926
- Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, 11A933
KOCH, K: Implications for upper-mantle structure in the western US from complete far-regional seismograms, 3A1277
KOCH, M: Coupled FEM simulation for the characterization of the fluid flow within a micromachined cantilever valve, 10T454
KOCH, RA: Practial application of the Galerkin method to the broadband calculation of normal modes for underwater acoustics, 1A350
KOCHETKOV, VA: Calculation of deformative and thermal properties of multiphase composite materials filled with composite or hollow spherical inclusions by the effective medium method, 2A1156
KOCHHAR, AK: Repair learning for a working knowledge-based system, 2A345
KOCHMANSKI, MS: Dynamics of dipole of finite size in field of two dipoles, 6A4
KOCHUROVA, NN: Kinetics of condensation-evaporation, 1A1241
KOCIK, J: Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, 10A746
KOCK, CW: Model for unsteady rotor aerodynamics, 5T1004
KOCKS, UF: Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, 1A520
KOCMOND, JH: Tradeoffs between motion and stability in posterior substituting knee arthroplasty design, 1A1445
KOCZAK, MJ: Thick-section AS4-graphite-E-glass-PPS hybrid composites - Part I: Tensile behavior, 9A536
- Thick-section AS4-grapite-E-glass-PPS hybrid composites - Part II: Flexural response, 11A481
KODA, S: Surface characterization of polished molds and dies (Japanese), 5T387
KODAIRA, T: Weldability of neutron-irradiated type 316 stainless steel, 11A840
KODAMA, T: Torsional vibration damping of diesel engine with rubber damper pulley, 6A170
- Model verification on 3D tidal current analysis in Tokyo Bay, 6A936
- Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, 8A877
KODASHIMA, T: Thermal stresses in a fluid-saturated porcelastic hollow sphere, 8A1226
KODIYALAM, S: Neural networks with modified backpropagation learning applied to structural optimization, 7A905
- Composite sandwich-structure optimization with application to satellite components, 8A708
KODRES, CA: Moisture-induced pressures in concrete airfield pavements, 7A939
KODUR, VKR: Fire resistance of steel columns filled with bar-reinforced concrete, 6A746
KOEBBE, J: Minimization of grid orientation effects in simulation of oil recovery processes through use of an unsplit higher order scheme, 7A1364
KOECHLING, J: Partitioning the parameter space according to different behaviors during 3D impacts, 5A187
KOEHLER, RT: Controlling thermal stresses in composites by means of fiber prestress, 10A1338
KOENEKE, CE: Axial oil film rupture in high speed bearings due to the effect of the centrifugal force, 5A1083

KOENIG, J: Two stage ignition of a n-heptane isolated droplets, 5A1213
- Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, 10A275
KOENIGSDORFF , R: Evaluation of an improved hybrid six-flux and zone model for radiative transfer in rectangular enclosures, 2A1133
KOERNER, GR: Out-of-plane tensile behavior of geosynthetic clay liners, 12A663
KOERNER, RM: Out-of-plane tensile behavior of geosynthetic clay liners, 12A663
KOFMAN, S: Determination of aircraft stall margins during takeoff, 11T1020
KOFSKY, IL: Optical radiations from interaction of effluent gases with the low-orbital atmosphere, 12A1306
KOGA, S: Study on observational construction control for an earth-retaining works based on minimum measured data (Japanese), 10A679
KOGA, T: Determination of rigidities of fiber-reinforced plastic laminates using holographic interferometry, 11T704
KOGA, Y: Development of 3D-measuring system by image processing: Application to dimensional inspection of small molded plastic electronic parts (Japanese), 9A873
KOGAI, M: Application of mechatronics to vehicle assembly - modular assembly (Japanese), 1T430
KOGAN, L: Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezoelectric material, 11A558
KOGAN, YA: Model of the deformation of a non-uniformly heated three-layer rod with delaminations, 4A1228
KOGANEZAWA, N: Thermal stress and strength reliability of heater for cathode ray tube (Japanese), 7A1284
KOGMEN, M: Finite element analysis of the thermal field in the rotor during induction motor start-up, 10A1287
- Comparison of mathematical models for electric discharge machining, 10A1326
KOGUCHI, H: Influence of the intermediate material on the order of stress singularity in three-phase bonded structure, 4A432
- Elasticity of nanoindentation, 7T1003
- Stress singularity in three-phase bonded structure, 12A501
KOH , BK: Design of automobile exhaust system using top-down approach design methodology, 11A1280
KOH, CG: Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, 1A160
KOH, CHAN-GHEE: Stochastic response of offshore platforms by statistical cubicization, 2A789
KOH, SH: Fatigue life simulation and estimation of an autofrettaged thick-walled pressure vessel with an external groove, 8A590
KOH, SK: Fatigue life of an autofrettaged thick-walled pressure vessel with an external groove, 8A575
KOHARI, K: Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), 11A570
KOHDA, T: Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
KOHIRA, H: Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706
KOHL, M: Axisymmetric substitute structures for circular disks with noncentral holes, 12A591
KOHLER, J: Evaluation of instationary flow fields using crosscorrelation in image sequences, 7A1197
KOHLER, M: Fast computation of the C-space of convex 2D algebraic objects, 4A82
KOHLER, P: Construction of asymptotically best quadrature formulas, 4A81
KOHLER, ST: Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
KOHLER, W: Localization and mode conversion for elastic waves in randomly-layered media - I, 10A258
- Localization and mode conversion for elastic waves in randomly-layered media II, 10A257
KOHLES, SS: Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, 7T1420
KOHLI, D: Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, 12A456
KOHN, DH: Effective anisotropic elastic constants of bimaterial interphases: Comparison between experimental and analytical techniques, 12A782
KOHN, K-U: Adaptive spectral compensation algorithm for avoiding flexural vibration of printing cylinders, 4A208
KOHNE, R: Investigation of control and simulation of solar process heat plants using a flexible test facility, 8A1386
KOHR-ILE, M: Existence of solutions for 2D Stokes flows past rigid obstacles, 10A1077
- Numerical analysis for the effect of surfactants on a circular liquid lens - I, 11T909
KOHSAKA, R: Effectiveness of tuned liquid dampers under wind excitation, 4A216
KOIDE, S: Effects of strakes on a glancing shock wave-turbulent boundary-layer interaction, 2A947
- Correlation of shock angles caused by rhombic delta wings, 12T1103
KOIDE, T: Friction and wear characteristics of gears in high vacuum, 12A956
KOIKE, S: Superconductivity in the two-chain Hubbard model including the interchain Coulomb interaction, 7T687
- New formulation of state constraint problems for first-order PDEs, 8T275
- Critical strain of non-homogeneous rock masses (Japanese), 10A691
KOITA, T: Parallel computing for analysis of variable geometry trusses, 12A855
KOIVO, AJ: Modeling and control of excavator dynamics during digging operation, 6A545
KOIZUMI, A: Development of manufacturing reinforced concrete segment by centrifugal compaction (Japanese), 10A892
- Experimental studies and numerical analyses on the properties of a new type segment for gas pipeline shield tunnel (Japanese), 10A919
KOIZUMI, H: Chaotic behavior and heat transfer performance of the natural convection around a hot horizontal cylinder affected by a flat ceiling, 6A1074
KOIZUMI, K: Perpendicular guideway mechanism of machine tool - 3rd report: Improvement of positioning characteristics by load compensated drive mechanism (Japanese), 2T545
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
KOJIC, A: Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, 4A579
- Modeling of chamber mufflers by four-pole electrical ducts, 8A254
KOJIC, M: Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, 4A579
- General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, 12A515
KOJIMA, H: Improvement of the accuracy for extracting areas in danger of the landslide using satellite multispectral data (Japanese), 10T676
- Influence of plasma extinction on machining stability in EDM process (Japanese), 12A688
KOJIMA, M: Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, 4A1184
KOJIMA, T: Geometric axis bending strength of double angle beams, 12A588
KOK, J: Implementation and performance of the time integration of a 3D numerical transport model, 1A1437
KOK, JBW: Mixing in T-junctions, 9A1143
KOKER, SH: Heat transfer enhancement in water-feldspar upflows through vertical annuli, 3A1096
KOKETSU, K: Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, 11A1386
KOKHANENKO, IK: Influence of the law of dynamic load drop on the deformability of sandy soils, 5T548
KOKHANENKO, YV: Numerical study of marginal effects in adhesive compounds (Russian), 3A488
- Marginal effects in composites (Russian), 7A541
- Numerical study of boundary effects in laminated cylinders (Russian), 7A635
KOKINI, JL: Simulation of the nonlinear rheological properties of gluten dough using the Wagner constitutive model, 4A906
KOKKINAKI , AI: Comparision of AI and DAI based planning techniques for automated manufacturing systems, 1A440
KOKOTOVIC, PV: Adaptive Control of Systems with Actuator and Sensor Nonlinearities - Series on Adaptive and Learning Systems for Signal Processing, Communications, and Control, 12R11
- Inverse optimality in robust stabilization, 12T340
KOKUBU, K: Effects of classified fly ash on impeoving performance of roller compacted concrete pavements (Japanese), 6A745
KOKUBUN, K: Deployment-retrieval control of a tethered subsatellite under effect of tether elasticity, 6T308
- Real-time optimal state feedback control for tethered subsatelite system, 12T414
KOLACZKOWSKI, ST: Radiative exchange between square parallel channels in a concentric monolith structure, 7A1255
KOLAKOWSKI, Z: Interactive buckling of thin-walled open elastic beam-columns with intermediate stiffeners, 4A568
- Influence of local post-buckling behavior on bending of thin-walled elastic beams with central intermediate stiffeners, 9A618
- Interactive elastic buckling of thin-walled closed orthotropic beam-columns, 9A619
- Interactive elastic buckling of thin-walled open orthotropic beam-columns, 9A620
- Influence of local postbuckling behavior on bending of thin-walled beams, 10A622
KOLAR, MJ: Physical modeling of hip joint forces in stair climbing, 9A1439
KOLAR, RL: Boundary conditions in shallow water models: An alternative implementation for FE codes, 9A39
KOLAROW, L: Spatial FEM model of thermal stress state of concrete blocks with creep consideration, 4A1205
KOLBE, R: Numerical simulations of flow modification of supersonic rectangular jets, 10A1163
KOLCHIN, GB: Centrally-symmetric deformation of an elastic radially-inhomogeneous transversally-isotropic hollow sphere, 10A524
KOLCIO, K: Development of equations of state for compressible liquids, 6A918
KOLEDNIK, O: Note on calibration of ductile failure damage indicators, 8A632
KOLENDA, Z: Evaluation of covariance matrices in the multistage unified least-squares adjustment of the measurement results, 3A1200
KOLESNIKOV, VI: Effect of interphase adhesion on composite properties, 6A788
KOLHE, R: Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, 5A655
- Complex variable formulations for usual and hypersingular integral equations for potential problems: With applications to corners and cracks, 10A827
KOLIAS, JH: Conservative staggered-grid Chebyshev multidomain method for compressible flows, 9T1108
KOLINGEROVA, I: Comparison of 2D line clipping algorithms, 1A69
- Detection of mutual position of a point and a convex polygon in E^n, 10A67
KOLIOPULOS, PK: Stochastic linearization of inelastic seismic torsional response: Formulation and case studies, 2A1248
KOLLURI, P: Application of noncircular primary-air inlet geometries in the inshot burners of residential gas furnaces, 8A1281
KOLMAKOVA, VA: Slip line at the cut end on the interface of different media (Russian), 7A572
KOLMANOVSKY, I: Switched mode feedback control laws for nonholonomic systems in extended power form, 7T388
- Stabilizing feedback laws for internally actuated multibody systems in space, 9T138
KOLMANOVSKY, IV: State constraints in the linear regulator problem: Case study, 4T360
KOLMOGOROV, V: Friction and wear model for heavily loaded sliding pair - Part I: Metal damage and fracture model, 12A888
KOLMOGOROV, VL: Prediction of resources of materials of machine and construction elements in the process of manufacture and exploitation, 7A810
KOLODZIEJ, JA: Adaptive boundary collocation method for linear PDEs, 1A55
KOLOSOVSKAYA, TP: Algorithms for processing space-time signals in systems with a random structure, 9A400
KOLOTNIKOV, ME: Formation of programs for equivalent laboratory tests of turbine blades, 10A619
KOLOVSKII, MZ: Impact of the kinematic precision of a gearing on the machine unit vibration activity, 7A1007
KOLP, DA: Advantages of air conditioning and supercharging an LM6000 gas turbine inlet, 5A1027
KOLPAKOV, AG: Design of laminated composites possessing specified homogenized characteristics, 1A555
- Stability problem for nonhomogeneous structures: Averaged description, 5A521
- Problem in the theory of pre-stressed plates, 6A474
KOLPAKOVA, IG: Design of laminated composites possessing specified homogenized characteristics, 1A555
KOLPASHCHIKOV, VL: Thermodynamic constraints for constitutive equations in thermoviscoelasticity: New relationships between cross effects, 2A1155
KOLSTEIN, MH: Behavior of trough stiffener to crossbeam connections in orthotropic steel bridge decks, 7A964
KOLSTER, BH: X-ray fractography studies on austenitic stainless steels, 10A736
KOLSTON, PJ: Finite element micromechanical modeling of the cochlea in 3D, 6A207
KOLTONSKI, W: Acoustic emission in moistened bricks and wood, 1A356
KOLTSAKIS, EK: Softening behavior of continuous thin-walled steel beams: Two numerical methods, 6A467
KOLWEY, HG: New ADS-33 process: Cautions for implementation, 7A984
KOLYSHKIN, AA: Linear stability of Couette flow with rotating inner cylinder and radially nonuniform internal heat sources, 4A1155
- Interaction of phase-shifted fields of two single-turn coils situated above a conducting medium, 9A870
KOMABA, Y: Measurement of Young's modulus and stress analysis of a magnetic thin film, 7A868
KOMAI, I: Propellant design relationships for throttled gas generators, 11A1306
KOMAI, K: Influence of water on mechanical properties and fracture mechanism of FRP-aramid honeycomb core sandwich material (Japanese), 4A487
KOMANDURI, R: Magnetic fluid grinding of HIP-Si_3N_4 rollers, 10A995
KOMATSU, T: Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), 3A969
- Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), 3A341
- Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, 7A1277
KOMERATH, NM: Flow visualization during multiple-axis motions using a wind-driven manipulator, 7A1176
- Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, 11A325
KOMINAR, V: Thermo-mechanical regulation of residual stresses in polymers and polymer composites, 8A1237
KOMISSAROVA, GL: Axisymmetrical waves in elastic hollow cylinder filled and surrounded with liquid (Russian), 3A215
KOMIYA, H: Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
KOMIYAMA, H: Stability of liquid CO_2 in seawater at high pressures, 3A957
KOMORI, A: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
KOMORI, K: Heat transfer and fluid flow of natural convection along a vertical flat plate in the transition region: Experimental wall temperature field, 2A1093
KOMOROWSKI, JP: Double pass retroreflection for corrosion detection in aircraft structures, 6A694
KOMPELLA, MS: Variation of structural-acoustical characteristics of automotive vehicles, 10A351
KOMPENHANS, J: Experimental and numerical investigations of dynamic stall on a pitching airfoil, 10A1200
KOMURASAKI, K: Two-dimensional numerical model of plasma flow in a Hall thruster, 4A1278
KOMVOPOULOS, K: Nanoscale indentation hardness and wear characterization of hydrogenated carbon thin films, 5T787
- Three-dimensional FE analysis of surface deformation and stresses in an elastic-plastic layered medium subjected to indentation and sliding contact loading, 12A524
KON, M: Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, 6A448
KONASHENKO, SI: Calculation plates with wide ribs (Russian), 7T612
KONCHITS, VV: Micromechanics and electrical conductivity of point contacts in boundary lubrication, 12T1188
KONDAPALLI, PS: Frequency response of elastic bodies of revolution by the BEM, 1A168
KONDO, E: Minimum energy control for single-input linear digital systems in z-domain, 6A337
KONDO, K: Consideration of optimum conditions for surface smoothing based on lubricating mechanisms in ironing process, 5A562
- Research on simplification of opposed dies shearing process utilizing differential pressure, 12A683
KONDO, M: Generation of tool paths for a die sinking based on "skewed cube modeler": Application to stamping dies, 7A732
KONDO, N: Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part I: Computation of flow around rectangular cylinders, 4A982
- Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part II: Aerodynamic characteristics of a rectangular cylinder with an angle of attack, 4A983
- Eigenfunction spectrum analysis for self-organization in dissipative solitons, 11A187
KONDO, T: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541
KONDO, Y: Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, 7A1277
KONDOH, S: Loadability of bolt-nut assemblies: Determination of critical nut height by staircase method, 9A1031
KONDOH, Y: Eigenfunction spectrum analysis for self-organization in dissipative solitons, 11A187
KONDOU, T: Polygonal deformation of roll-covering rubber, 9A278
KONDRASHOV, VM: Simulation of locomotive dynamics considering tribological characteristics of a rail-wheel pair, 5A778
KONDRAT'EV, AE: Problem of information-measuring system reliability calculations, 11A304
KONDRAT'EV, VA: Singularity of the temperature gradient near a sharp cut in a compound body, 10A898

KONDRUSIK, E: Closed two-phase thermosyphons for industrial heat transfer: Fundamental questions for effective application, 3A1146
- Burnout of counter-current two-phase flow in a horizontal channel (Polish), 9A1180
KONG, FANRONG: New Method for measuring the film thickness of mixed lubrication in line contacts, 2A1062
KONG, FUNG-KEW: Effect of embodment length of tension reinforcement on the behavior of light-weight concrete deep beams, 7A933
- Performance of strengthened concrete deep beams predamaged in shear, 9A921
KONG, J: Accurate finite strip for analyzing deep beams and shear walls, 1A601
- Three-dimensional FE analysis of thick laminated plates, 2A478
- Vibration of continuous beams using modified beam vibration functions, 8A110
KONG, PC: Thermal explosion model, 1A1311
KONG, SUNGHO: Sedimentation and reuse of titanium dioxide: Application to suspended-photocatalyst reactors, 2T1283
KONG, WEIZENG: Cancellous bone Young's modulus variation within the vertebral body of a ligamentous lumbar-spine: Application of bone adaptive remodeling concepts, 5A1363
KONG, XA: Modified tree search algorithm for contact BEM-LCP approach, 9A480
KONG, XIANGHE: Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, 7A611
KONG, XM: Effect of triaxial stress on mixed-mode fracture, 2A629
KONG, XR: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22
KONIECZNY, P: Design of low-noise centrifugal blowers - Part I: Measurement and analysis procedures, 1A945
- Design of low-noise centrifugal blowers - Part 2: Optimization study, 1A946
KONIG, M: Three-dimensional analysis of center-delaminated unidirectional and multidirectional single-leg bending specimens, 3A703
- Three dimensional analysis and resulting design recommendations for unidirectional and multidirectional end-notched flexure tests, 4A511
KONINGSTEIN, R: Experiments with model-simplified computed-torque manipulator controllers for free-flying robots, 4A406
KONIORCZYK, P: Experimental research and analysis of coupled conduction-radiation heat exchange in block-polymerized polyamide 6, 6A1131
- Comparative investigations of thermal conductivity of selected plastics using a steady-state and transient heat conduction method, 9A1293
KONISHI, Y: Trajectory planning of redundant manipulator using genetic algorithm, 7T438
- Active noise control of turning machine using neural network, 9T372
KONNO, K: Smoothing function suitable for estimation of amplification factor of the surface ground from microtremor and its application (Japanese), 5T1333
KONNOV, AA: Experimental study of extinction of nonadiabatic counterflow premixed flames, 10A1360
KONO, M: Two stage ignition of a n-heptane isolated droplets, 5A1213
- Effects of a ring crevice on hydrocarbon emission from spark ignition engines, 8A1255
KONOPELCHENKO, BG: Nizhnik-Veselov-Novikov equation: Associated boundary value problems, 12A229
KONOPKA, Z: Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, 9A563
KONOPLEV, VA: Analytical transvection forms of the kinetic energy matrix and the inverse matrix for a system of bodies, 10A73
KONOSU, S: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753
- Effects of heat treatment on the creep crack growth of alloy 800H possessing long service history, 4A687
KONSTA-GDOUTOS, M: Evaluation of stress intensity factors in metals by photoelastic coatings and caustics, 9A861
KONSTANTINOV, AB: Extended Lagrangian particle-in-cell (ELPIC) code for inhomogeneous compressible flows, 4A996
KONTTINEN, N: Postural stability and skilled performance: A study on top-level and naive rifle shooters, 6A1381
KONUKHOV, SN: Stability of cylindrical shell under the deflection compression under 1-way connection, 9A634
KOO, B-U: Non-singular boundary integral equation for acoustic problems, 10A380
KOO, GH: Vibration analysis of a 3D piping system conveying fluid by wave approach, 10A157
KOO, JEONG SEO: Post buckling analysis of non-frictional contact problems using linear complementarity formulation, 2A484
KOO, JS: Post-buckling analysis with frictional contacts combining complementarity relations and an arc-length method, 9A615
KOO, YOUN-SEO: Flow and transport modeling in the sea-breeze - Part II: Flow model application and pollutant transport, 3T1348
KOOIJ, BJ: Transient acoustic diffraction in a fluid layer, 10A359
KOOLEN, AJ: Fracture behavior of a cohesive soil under crushing stress loading, 9A665
KOOLOOS, JGM: Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, 6A1308
KOOPMAN, B: Inverse dynamics model for the analysis, reconstruction, and prediction of bipedal walking, 2A1290
KOOPMANN, GH: Visualization of acoustic particle interaction and agglomeration: Theory and experiments, 9A354
KOOPMANS, RJ: Experimental study and modeling of oscillating flow of high density polyethylenes, 11A851
KOOTSTRA, JG: Numerical simulation of blood flow in an artery with two successive bends, 12A1475
KOPALINSKY, EM: Explaining the mechanics of metallic sliding friction and wear in terms of slipline field models of asperity deformation, 5A767
- Metallic sliding friction under boundary lubricated conditions: Investigation of the influence of lubricant at the start of sliding, 5A776
KOPANIA, P: Investigations of internal friction and constants of elasticity of solids by the acoustic resonance method, 1A527
KOPCHINSKY, GA: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417
KOPIAS, K: Damping the tension impulse in the thread on a frictional barrier, 10A160
KOPICA, M: Non-cooled (Hg, Cd) Te detectors of 10.6 μm radiation in direct and heterodyne detection, 3A1145
KOPINGA, K: Determination of moisture diffusivity in porous media using moisture concentration profiles, 7A1300
KOPLIK, J: Continuum deductions from molecular hydrodynamics, 2A914
KOPNOV, VA: Fatigue strength functions in shear loading of fabric conveyor belts, 6A616
KOPPARAPU, M: Elastodynamic response of a dc motor driven flexible mechanism system with compliant drive train components during start-up, 11A827
KOPPARTHI, V: Nitric oxide emission from pulverized coal blend flames, 5A1229
KOPPENHOEFER, KC: Constraint efforts on fracture toughness of impact-loaded, precracked Charpy specimens, 11A1419
KOPRIVA, DA: Spectral solution of the viscous blunt-body problem 2: Multidomain approximation, 8A920
- Conservative staggered-grid Chebyshev multidomain method for compressible flows, 9T1108
KORABLEV, AE: Experimental determination of tangential stresses on the surface of an indenter dynamically forced into soil, 5T553
KORAT, E: Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, 4A904
KORDOMENOS, J: Experimental study of a thermoacoustic termination of a traveling-wave tube, 1A300
- Investigation of parametric drive of a longitudinal gas-filled resonance tube, 7A324
KORDYBAN, E: Effect of surfactants on the wave growth and transition to slug flow, 5A201
KORELC, J: Consistent gradient formulation for a stable enhanced strain method for large deformations, 9A73
KOREMATSU, K: Effect of sulfur dioxide in recirculated exhaust gas on wear within diesel engines: Relationship between wear and amount of SO_2 absorbed by lubricating oil film, 1T1344
- Effects of a ring crevice on hydrocarbon emission from spark ignition engines, 8A1255
KOREN, B: Improving Euler computations at low Mach numbers, 11T911
KORENEVA, EB: Extension of the applicability area of exact solutions in problems on antisymmetric bending of isotropic and orthotropic circular plates of variable thickness, 3A533
KORIN, E: Integrated solar collector storage system based on a salt-hydrate phase-change material, 5A1359
- Thermal analysis of a helical heat exchanger for ground thermal energy storage in arid zones, 6A1147
KORIS, M: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474
KORJAKIN, A: Analysis of free damped vibrations of laminated composite cylindrical shells, 7A170
KORLINSKI, W: Generalized mathematical model of thread friction, 6A784
KORMI, K: Use of FEM as an effective teaching tool and as a flexible aid in the simulation of manufacturing processes and multiple rigid-body collisions, 7A26
KORN, J: Theory of spontaneous processes, 3A78
KORNEEV, AB: Analysis of nonstationary dynamic processes in the presence of mixed information on random perturbations, 6A49
KORNHUBER, R: A posteriori error estimates for elliptic problems in two and three space dimensions, 12A26
KORNIENKO, YN: Generalized integral forms for friction, heat, and mass transfer coefficients, 1A1213
KOROBKIN, A: Impact of two bodies one of which is covered by a thin layer of liquid, 4A1050
- Global characteristics of jet impact, 7A1111
KOROBKO, AV: Solution of problems of structural mechanics by the method of interpolation as to form factor, 11A778
KOROBOV, A: Convexity requirement in the geometric-probabilistic approach to heterogeneous chemical kinetics, 8A1263
KOROL, EZ: Estimation of the strength of turbine blade shell layers with permeable surfaces, 7T643
KOROL, RM: Dynamic response of hollow section frames with bolted moment connections, 4A187
- Adequate ductility in steel beams under earthquake-type loading, 6A1277
- Low cycle fatigue damage assessment in steel beams, 8A689
KOROLCHENKO, AY: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
KOROLEV, BA: Free convective heat and mass transfer in processing polymer materials, 5A1147
KORONOV, MZ: Fractographic analyses of fatigue crack growth in D16T alloy subjected to biaxial cyclic loads at various R-ratios, 5T589
KOROTHU, SP: Conjugate gradient squared algorithm for panel methods, 4T995
KOROTKE, VV: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303
KOROTKIKH, YG: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
KORST, HH: Experimental vertification of interference-free testing concept for vehicles with propulsive jets, 12A865
KORSUNSKY, AM: Solution of crack problems by using distributed strain nuclei, 8A683
KORTE, JJ: Flow quality of hypersonic wind-tunnel nozzles designed using computational fluid dynamics, 1A1153
KORUTHU, SP: Preconditioned generalized minimum residual acceleration of panel methods, 2T897
KORVICK, DL: Use of an implantable force transducer to measure patellar tendon forces in goats, 8A1443
KORYCKI, J: Norm-relaxed method of feasible directions: Application in structural optimization, 12A816
KOS, GPA: High-flow turbulent cloud chamber, 8A1369
KOSAREV, OI: Model of vibration excitation in a spur mesh, 12T958
KOSCHAN, A: Fast algorithm for edge structure detection in monochrome and color images, 6A282
KOSECKI, M: Analysis of soil-structure interaction accounting for soil plasticizing (Polish), 10T670
KOSEFF, JR: Entrainment in a shear-free turbulent mixing layer, 9A1189
KOSEKI, K-I: Properties of microcracks formed on surface of concrete at steam curing period (Japanese), 2T601
KOSENKO, II: Application of Galerkin's method in Lagrangian dynamics, 1A107
KOSER, K: Continuous modeling of the torsional vibrations of the drive shaft of mechanisms, 5A158
KOSGI, S: Interface shear behavior of landfill composite liner systems: A FE analysis, 12A662
KOSHIGOE, S: Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, 10A366
KOSHIKA, N: Experimental verification of bounded-force control method, 7A1378
KOSHIZUKA, S: Numerical analysis of deterioration phenomena in heat transfer to supercritical water, 1A1206
KOSHKIN, BY: Decomposition flame of hydrazine in inert porous media, 3A1231
KOSHKIN, VL: Optimal control of a spacecraft with a solar sail (Russian), 3A376
- Dynamics of deep-sea cable system (Russian), 7T599
KOSHTI, A: Preload measurement in sleeve bolts using an ultrasonic technique, 7A889
KOSINSKA, A: Experimental verification of the method of deflection analysis of RC members subjected to bending (Polish), 10A895
- Model investigation of monolithic wall-floor slab joints (Polish), 10A936
KOSINSKI, RA: Chaotic dynamics of periodically driven domain walls in magnetic garnet films, 10T645
KOSINSKI, S: Transport equation for shock strength in hyperelastic rods, 1A188
- Waves generated by an incident shock in a peculiar hyperelastic material, 1A190
KOSINSKI, W: Asymptotic equations of geometrical optics for two models of hyperbolic heat waves, 3A9
- Gradient generalization to internal state variable approach, 3A7
- Parabolic regularization of hyperbolic heat conductivity in rigid body, 6A3
- Numerical modeling of thermal waves via internal state variable approach, 6A1168
- Hugoniot relations for different heat conduction laws, 7A1245
KOSS, DA: Modeling study of the effect of stress state on void linking during ductile fracture, 11A670
KOSS, LL: Frequency response functions for structural intensity - Part I: Theory, 1A313
- Chain dampers for control of wind-induced vibration of tower and mast structures, 4A213
KOSSOVICH, LY: Synthesis of the dispersion curves for a cylindrical shell on the basis of approximate theories, 2A153
KOSTAKIS, D: Statistical approach for the diffusion of sound by reflecting surfaces in large enclosures, 6A249
KOSTAREV, KG: Free convective heat and mass transfer in processing polymer materials, 5A1147
KOSTECKI, J: Laser generation of ultrahigh pressures, 3A198
KOSTEK, S: Transient analysis of the transmitting properties of a focused acoustic transducer with an arbitrary rim, 1A290
KOSTENIUK, PR: Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
- Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, 11A1434
KOSTER, JN: Steady natural convection in a double layer of immiscible liquids with density inversion, 4A1154
- Steady Rayleigh-Benard convection in a two-layer system of immiscible liquids, 11A1125
KOSTIAL, P: Surface acoustic wave measurements of evaporation rate, 9A338
KOSTIN, GV: Numerical-analytical method for studying natural vibrations of nonuniform rods, 10A153
KOSTIUK, LW: Coupling of conical wrinkled laminar flames with gravity, 1A1315
KOSTOPOULOS, V: Fracture toughness calibration of the Si_3N_4-Fe joint system: A parametric study, 10A810
KOSTREVA, M: Norm-relaxed method of feasible directions: Application in structural optimization, 12A816
KOSTURI, M: Transport in ratchet-type systems, 9A16
KOSUGI, M: Development of a novel technique to measure rock mass behavior in a borehole (Japanese), 7A718
KOTA, NN: Optimal control of HVAC systems using DDP and NLP techniques, 8A336
KOTA, TJ: Nomenclature for exergy analysis, 4A1134
KOTAKI, M: Design of knitted fabric reinforced composites, 2A422
KOTANI, K: Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
KOTANI, M: Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, 4A1188
KOTANI, S: Finding pedestrians by estimating temporal-frequency and spatial-period of the moving objects, 11T373
- Development of the robotic travel aid "HITOMI", 11A372
KOTECKI, DE: Controlling the dimensions of laser-chemical vapor-deposited metallurgy, 8A562
KOTERAYAMA, W: Slow drift damping force acting on a cylinder in waves, 6T217
KOTHARI, M: Computational procedure for rate-independent crystal plasticity, 8A439
KOTHDIWALA, AF: Effect of variation of angle of inclination on the performance of low-concentration-ratio compound parabolic concentrating solar collectors, 3A1368
KOTNAROWSKI, A: Analysis of surface layers obtained during tribological investigation of low friction additives (Polish), 6A816
KOTOB, S: Robust control scheme for asymptotic tracking of robot motion, 5A368
KOTORYNSKI, WP: Viscous flow in axisymmetric pipes with slow variations, 1A1052
KOTOSAKA, S: Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
KOTOV, SA: Burnout heat transfer in steam-water mixtures in cylindrical and annular porous channels, 1A1248
KOTOVSKY, VN: Mathematical modeling of unsteady viscous flow over a 3D finite span wing, 10T1206
KOTOWSKI, S: Invariance of sliding motions with respect to control matrix, 9A420
KOTSOVOS, MD: Structural Concrete: Finite-Element Analysis for Limit-State Design, 5R18
- Orthotropic rectangular plates under in-plane loading - Part 1: Closed-form solutions for stresses, 4A558

- Orthotropic rectangular plates under in-plane loading - Part 2: Application to the series solution by reference to the problem of colinear compression, 4A559
- Application of the compressive-force path concept in the design of reinforced concrete indeterminate structures: A pilot study, 8A740

KOTTA, U: Immersion of discrete-time nonlinear system by regular dynamic state feedback into a linear system, 12T371

KOTTGEN , VB: Pseudo stress and pseudo strain based approaches to multiaxial notch analysis, 2A395

KOTULSKI, Z: Wave pulses in 2D randomly stratified elastic media, 1A204
- Effective transmission properties of a randomly segmented elastic bar, 1A205

KOTYUK, AF: Apparatus for measuring the energy of pulse radiation of a laser, 9A860

KOTZIAS, PC: Earth slide on geomembrane, 10A675

KOU-FANG LO, A: Determination of zero-plane displacement and roughness length of a forest canopy using profiles of limited height, 4T1346

KOUH, JEN-SHIANG: High order panel method based on source distribution and Gaussian quadrature, 8A897

KOUL, AK: New approach to fatigue threshold, 1A766

KOUMOUSIS, VK: Explicit method for the free vibrations of non-circular cylindrical panels, 10A183

KOUMOUTSAKOS, P: High-resolution simulations of the flow around an impulsively started cylinder using vortex methods, 1A1001

KOUMURA, T: Transient response solution applying ADI scheme to Boltzmann flow-modified Reynolds equation averaged with respect to surface roughness, 5T1086

KOUNADIS, AJ: Nonlinear dynamic buckling of a simple model via the Liapunov direct method, 12A609

KOUNADISIds equation averaged with respect to surface roughness, 5T1086

KOUNADIS, AJ: Nonlinear dynamic buckling of a simple model via the Liapunov direct method, 12A609

KOUNADIS, AN: Effect of a moving mass and other parameters on the dynamic response of a simply-supported beam, 10A145
- Dynamic buckling mechanism of single-dof dissipative and non-dissipative autonomous systems, 12A630

KOURKOULIS, SK: Dynamic crack instability: The twin-crack model, 9A831
- Influence of the temperature field on the propagation of cracks, 9A1280

KOURTA, A: Vortex shedding in segmented solid rocket motors, 8A912
- Acoustic-mean flow interaction and vortex shedding in solid rocket motors, 9A1342

KOUSAKA, Y: Orientation-specific dynamic shape factors for doublets and triplets of spheres in the transition regime, 7A1349
- Penetration of ultrafine particles and ion clusters through wire screens, 9A1346
- Effect of alpha source to aerosol distance on the performance of a diffusion charger, 11A1316
- Size measurement of fine powders using the differential mobility analyzer - Application of boiling method for aerosol generation, 12A1335

KOUSSIS, AD: Stream-aquifer interaction model with diffusive wave routing, 9T1055

KOUZOUBOV, A: Laminar roughness boundary condition, 4A939

KOVAC, M: Method for residual stress measurement in welded seams, 3A474

KOVACEVIC, N: Instrumented implant for measuring tibiofemoral forces, 8A1437

KOVACEVIC, R: Statistical character of the failure of multiphase materials due to high pressure water jet impingement, 1A767
- Quantification of energy absorption capability in abrasive water jet machining, 4A641
- Cutting force dynamics as a tool for surface profile monitoring in AWJ, 5A570
- Improving milling performance with high pressure waterjet assisted cooling-lubrication, 5A571
- Numerical analysis of fully penetrated weld pools in gas tungsten arc welding, 11A836
- Characterization and real-time measurement of geometrical appearance of the weld pool, 12A994

KOVACIC, G: Singular perturbation theory for homoclinic orbits in a class of near-integrable dissipative systems, 3A102
- Homoclinic orbits in the dynamics of resonantly-driven coupled pendula, 10A81

KOVACS, A: LPCVD against PECVD for micromechanical applications, 10T460

KOVACS, I: Mathematical description of the tensile stress-strain curves of polycrystalline face centered cubic metals, 8A425

KOVAKOVICH, D: Optimization of novel mechanisms for driving active tools of agricultural tilling machines, 7T1018

KOVALNOGOVA, TA: Longitudinal motion control system of surface effect vehicle, 8A314

KOVALENKO, EV: Influence of thermoresistance on the main contact characteristics in the 2D setting, 7A1244

KOVALENKO, YV: Interaction of frictional heating and wear at a transient sliding contact, 4A437
- Effect of a strip-shaped punch on a linearly-deformable foundation strengthened by a thin covering, 8A389

KOVALEV, AI: Characteristic features of blanking die wear with consideration for the change in composition, structure and properties of contact surfaces, 4A831

KOVALEV, AM: Controllability criteria and sufficient conditions for dynamical systems to be stabilizable, 4A342
- Necessary conditions of partial controllability of the system solid-GyrodyneGuz IA: Study of the composite resistance under compression along two parallel structural cracks on the interfaces, 7A100

KOVALEVA, A: Relieved control in cyclic systems, 2A283

KOVALEVA, AS: Averaging in randomly perturbed multifrequency nonlinear systems, 1A113

KOVALOV, EK: Centrally-symmetric deformation of an elastic radially-inhomogeneous transversally-isotropic hollow sphere, 10A524

KOVARDAKOVA, AY: Plastic bending of notched strips made of materials whose properties depend on the type of stress state, 10T535

KOVARIK, J: Heat transfer during quenching of turbine rotor parts, 12A680

KOVES, WJ: Analysis of flange joints under external loads, 7A1024

KOVNER, DS: Investigation of high-temperature engines in system of supersonic aircraft, 8T1291

KOVRIGUINE, DA: Nonlinear oscillations of a thin bar, 8A166

KOVRIZHNYKH, VP: Experimental data on hydraulic drag on boiling water in heated tubes, 1A1231

KOVROV, VN: Experimental study of interphase friction contribution to strain resistance of polymers with dispersed reinforcement (Russian), 7A545

KOWA, H: Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), 7A878

KOWAL, Z: Statistical increase and decrease of bearing capacity of structures, 1A886
- Proposal of a mathematical model of compressed bars for analysis of limit bearing capacity of true bar structures (Polish), 6A491

KOWALCZYK, M: Experimental study of the diesel engine flame radiative properties, 3A1242
- Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450

KOWALCZYK, P: Constitutive parameter sensitivity in elasto-plasticity, 6A402

KOWALCZYK, T: Prototype object-oriented FEM program: Class hierarchy and graphic user interface, 10A68

KOWALEWSKI, ZL: Effect of plastic prestrain magnitude on uniaxial tension creep of copper at elevated temperatures, 1A525
- Investigation of a high accuracy uni-axial creep testpiece with slit extensometer ridges, 1A479
- Experimental evaluation of the influence of stress state type on creep characteristics of copper at 523 K, 1A487
- Biaxial creep study of copper on the basis of isochronous creep surfaces, 9A495
- Experimental creep study of metals under multiaxial stress conditions, 10A531

KOWALK, DL: Abduction-adduction moments at the knee during stair ascent and descent, 6A1322

KOWALSKI, AD: Efficient PBL model for global circulation models: Design and validation, 2A1263

KOWALSKI, K: Microcomputer system of measurement and analysis of the dynamic forces in yarns during the rotor spinning process, 6A178
- Assessment of the dynamic tension in open end spinning and parameters of yarns, 6A177

KOWALSKI, W: Dynamic investigation of prefabricated buildings with bearing concrete walls subjected to quarry blasts (Polish), 3A812

KOWALSKY, MJ: Displacement-based design of RC bridge columns in seismic regions, 5A1317

KOWBEL, W: Mechanical behavior of carbon-carbon composites made with cold plasma treated carbon fibers, 2A421

KOWK, W: Dispersion in consolidated sandstone with radial flow, 1A1352

KOWNACKI, J: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450

KOWSIKA, MVSLN: Optimal pultrusion process conditions for improving the dynamic properties of graphite-epoxy composite beams, 8A559

KOYABU, K: Study of simple assembly method for compact optical modules used in telecommincations systems (Japanese), 2A330

KOYAMA, H: Capabilities of small computers as image analyzer for quantitative flow visualization, 5A1116
- Measurements and visualization in the flowfield behind a model propeller, 9A1244

KOYAMA, K: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
- Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336

KOYAMA, S: Free-convection condensation of an ammonia-water vapor mixture on a horizontal smooth tube, 4A1184

KOYANAGAWA, Y: Study on a surface-motor driven precise positioning system, 5A333

KOYANO, K: Hydrodynamic siren as a broadband underwater sound projector, 1A304

KOYLU, UO: Soot morphology and optical properties in nonpremixed turbulent flame environments, 8A1261
- Spectral extinction coefficients of soot aggregates from turbulent diffusion flames, 11A1210

KOYLUOGLU, HU: Interval algebra to deal with pattern loading and structural uncertainties, 3A770
- Fast cell-to-cell mapping (path integration) for nonlinear white noise and Poisson driven systems, 3A60
- Stochastic dynamics of geometrically nonlinear structures with random properties subject to stationary random excitation, 8A99
- Faster simulation methods for the nonstationary random vibrations of nonlinear MDOF systems, 9A115

KOYTOVA, JU: Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, 6A1192

KOZACZEK, KJ: Surface residual stresses in machined austenitic stainless steel, 12A693

KOZAK, AL: Calculation of stress-strained state of spatial constructions on the basis of a sequence of quasi-regular grids, 7A962

KOZAKIEWICZ, A: Experimental investigations of free vibrations of cylinder in water near a plane bottom, 3T901

KOZAR, I: Nonlinear Wilson's brick element for finite elastic deformations of 3D solids, 1A38
- Computational aspects of vector-like parametrization of 3D finite rotations, 4A546

KOZEL, K: Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, 2T894

KOZHEVNIKOV, VF: Pressure exerted by a disk on the wall of a hole in a plate loaded with an arbitrary plane system of forces, 10T606

KOZHUSHKO, GG: Fatigue strength functions in shear loading of fabric conveyor belts, 6A616

KOZIARSKI, AK: Layer thermocouple: New instrument for the assessment of the grinding wheel cutting ability, 2A1080

KOZIC, P: Influence of the transverse shear deformation on stochastic instability of isotropic plates, 12A621

KOZICKI, J: Computerized simulation of interaction between relieving structure and buried waste pipeline (Polish), 10A617

KOZIEN, M: Temporal representation of white noise, 9A120

KOZLJV, VI: Power analysis of stressed-deformed state of viscoelastic disk with rigidly fixed faced under cyclic compression (Russian), 3A447

KOZLOV, IM: Numerical study of free convection in a strongly inhomogeneous gas medium, 1A1192

KOZLOV, VI: Resonance contour oscillations of a piezoelectric plate with autoadjusted frequency (Russian), 7A165

KOZLOV, VV: Integrable extensions of Jacobi's problem of geodesics on an ellipsoid, 1A109
- Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1006
- Experimental study of the influence of riblets on transition, 11A946

KOZLOWSKI, A: Reflection of a moving shock wave: Boundary conditions for Monte-Carlo and continuum descriptions, 1A244
- Review of models of semi-rigid steel column-beam connections, 9T565

KOZLOWSKI, K: Optimal trajectory design for the identification of robot and load dynamics, 9A454

KOZLOWSKI, T: Freezing point depression of soil water as a function of mineral composition and physical properties, 9T670

KOZYAKIN, V: Robustness of dynamical systems to a class of nonsmooth perturbations, 4T112

KPEGBA, KW: Stress intensity factors in 2D crack problems by using the superimposed meshes method, 10A777

KRACH, A: Influence of void shape, void volume, and matrix anisotropy on effective thermal conductivity of a three-phase composite, 12A1241

KRADOLFER, U: Hypocentral parameters and velocity estimation in the western Swiss Alps by simultaneous inversion of P- and S-wave data, 11A1335

KRAEUTLE, KJ: Supersonic flow mixing and combustion using ramp nozzle, 4A1255

KRAEV, MG: Dispersed film boiling heat transfer, 1A1240

KRAFFT, R: Probabilistic method for the fatigue life assessment of powder metallurgy parts of aircraft engines, 10A733

KRAFT, T: Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, 11A1199

KRAG, MH: Poroelastic FE formulation including transport and swelling in soft tissue structures, 9A1443

KRAIKO, AN: Construction of the optimal contour of the leading edge of a body in a supersonic flow, 4A991

KRAINOV, VK: Nonisothermal pulsating flow of a viscoelastic fluid, 10A1266

KRAJCINOVIC, D: Continuum damage mechanics: When and how?, 1A777
- Fundamental issues of damage mechanics, 2A612
- Fundamental issues in rate theory of damage-elastoplasticity, 4A453
- Fractal model for the rigid-perfectly plastic contact of rough surfaces, 9A506

KRAJCZYK, A: Effect of stress state on the failure mechanism and fracture of austenitic steel under thermal cycling conditions, 1A754

KRAKOV, MS: Steady flow past a circular cylinder coated with magnetic fluid: Flow structure, drag reduction, and coating deformation, 1A1095

KRAKOVSKI, MB: Structural reliability estimation using Monte Carlo simulation and Pearson's curves, 8A736

KRAL, D: Helical baffles in shell-and-tube heat exchangers - Part I: Experimental verification, 10A1308

KRAL, ER: Three-dimensional FE analysis of surface deformation and stresses in an elastic-plastic layered medium subjected to indentation and sliding contact loading, 12A524

KRAL, J: Genetic algorithm in solution of inverse heat conduction problems, 4A1211

KRAL, LD: Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf, 2N47

KRALCHEVSKY, PA: Lateral capillary interaction between particles protruding from a spherical liquid layer, 2A922

KRALJ, B: Stochastic model for the permeability characteristics of saturated cemented porous media undergoing freezing, 9A1360

KRAMER, C: Effects of blade design on centrifugal fan noise and performance, 1A285

KRAMER, L: Convection instabilities in nematic liquid crystals, 2A843

KRAMER, SC: Direct optimization of gain scheduled controllers via genetic algorithms, 11A275

KRAMER, SL: Geotechnical Earthquake Engineering, 9R10

KRANENBORG, EJ: Bifurcation study of double diffusive flows in a laterally heated stably stratified liquid layer, 11A1259

KRANENBURG, C: Effects of a liquefied mud bed on wave and flow characteristics, 8T880

KRANNICH, K-D: Dissolution effects in transport in porous media, 7A1357

KRANSNOSEL'SKII, M: Robustness of dynamical systems to a class of nonsmooth perturbations, 4T112

KRARTI, M: Building energy use prediction and system identification using recurrent neural networks, 3A1158

KRASKA, M: Determination of finite plastic deformations in single crystals, 1A494

KRASNIKOV, VF: Simulation of automated manufacturing systems, 11A403

KRASNODEBSKI, JK: Computational study of viscous effects on lobed mixer flow features and performance, 11A1072

KRASNOV, AP: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812

KRATZAT, K: Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, 4A913

KRATZIG, WB: Natural Draught Cooling Towers - Proc of 4th Int Symp, 11N33
- Computational concepts in structural stability, 9A641

KRAUS, AD: Design and Analysis of Heat Sinks, 3R29

KRAUS, DK: Mixing of swirling jets in a supersonic duct flow, 6A962

KRAUSE, D: Flaw detection in d_{33} mode multilayer ceramic actuators using impedance-frequency scans, 11A709

KRAUSE, E: Numerical simulation of the blood flow in the human cardiovascular system, 6A1360

KRAUSE, R: hp-version FEs for geometrically nonlinear problems, 4A32

KRAUSE, TW: Variation of the stress dependent magnetic flux leakage signal with defect depth and flux density, 12A804

KRAUSS, KW: Tension tests of heavy-duty anchors with embedments of 8 to 19 inches, 11A700

KRAUSS, RH: Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, 2A1189
- Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063

KRAUTHAMMER, T: Strength enhancement in particulate solids under high loading rates, 5A550
- Rate-sensitive micromechanical damage model for brittle solid, 10A581

KRAVARIS, C: Continuous-time formulation of nonlinear model predictive control, 8A299

KRAVCHENKO, DN: Enhancement of convectional heat transfer due to bubbles rising, 11A1220
KRAVCHENKO, SA: Calculation of 3D separated flows within the framework of nonstationary Euler equations, 10T1087
KRAVCHIK, T: From spark ignition to flame initiation, 5A1211
KRAVER, TC: Complex modal analysis of a flat belt pulley system with belt damping and Coulomb-damped tensioner, 12A950
KRAVETS, VY: Pressure effects on the heat transfer of a liquid boiling on a surface with a capillary-porous coating, 1A1250
KRAWCZAK, P: Fracture mechanics applied to glass fiber-epoxy matrix interface characterization, 6A667
KRAWCZUK, M: Damage indicators for diagnostic of fatigue cracks in structures by vibration measurements: A survey, 10A835
- Analysis of natural frequencies of delaminated composite beams based on FEM, 11A6
KRAYNIK, AM: Simple shearing flow of a dry Kelvin soap foam, 9A1082
KREGER, ME: Fretting fatigue in post-tensioned concrete beams, 9A918
KREGERS, A: Stochastic multi-objective optimization of a viscoelastic composite plate (Russian), 1A486
KREIDER, JF: Building energy use prediction and system identification using recurrent neural networks, 3A1158
KREIDER, K: Transient electromagnetic wave propagation in transverse periodic media, 11A167
KREIM, H: Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, 8T316
KREININ, GV: Two-position thermal valve gear, 12T419
KREISS, H-O: Time Dependent Problems and Difference Methods - Pure and Applied Mechanics Series, 9R1
KREITH, F: Principles of Heat Transfer, Revised Fifth Edition, 10N37
KREJCI, P: Hysteretic models of plasticity, 2T393
KREMER, GM: Heat conduction through a rarefied gas between two rotating cylinders at small temperature difference, 2A918
KRENK, S: Family of invariant stress surfaces, 8A416
- Fatigue analysis and testing of adhesive joints, 9A756
KRESS, G: Effective tensile stiffness of finite-width quasi-isotropic laminates, 2A431
KRESS, R: Numerical solution of a hypersingular integral equation in scattering theory, 4A330
KREUTZ, TG: Ignition in nonpremixed counterflowing hydrogen versus heated air: Computational study with detailed chemistry, 7A1305
- Experimental study of ignition in nonpremixed counterflowing hydrogen versus heated air, 7A1317
KREYCHMAN, VA: Loading surface effect vehicle during flight over non-regular sea wave, 8A230
KRIBUS, A: Nonisothermal receivers, 3A1371
KRIEBEL, DL: Markov description of wave-crest statistics, 8A194
KRIEG, RD: Anisotropic plasticity with anisotropic hardening and rate dependence, 10A541
KRIEGSMANN, GA: Microwave heating of carbon-coated ceramic fibers: A mathematical model, 6A1142
KRIER, H: Laser propulsion 10-kW thruster test program results, 4A1276
KRIJGER, JKB: Merging flows in an arterial confluence: The vertebro-basilar junction, 6A1347
- Influence of the angle of confluence on the flow in a vertebro-basilar junction model, 6T1346
- Numerical simulation of blood flow in an artery with two successive bends, 12A1475
KRIM, J: Electronic contributions to sliding friction, 4A841
KRISHNA IYER, P: Nonlinear PE analysis of reinforced concrete four-pile caps, 1A891
- Three-dimensional photoelastic analysis of pile caps, 6A542
- Numerical simulation of welding and quenching processes using transient thermal and thermo-elastoplastic formulations, 11A837
KRISHNA KUMAR, R: Stress distributions during fiber pull-out, 12A537
KRISHNA MURTY, AV: High precision thickness-stretch deformation element for the analysis of symmetrical laminates under extension, 1A37
KRISHNA RAO, JVS: Axially symmetric thermal stress of an external circular crack under general thermal conditions, 1A1288
- Axially symmetric thermal stress of a penny-shaped crack under general heat flux, 5A1192
- Axisymmetric displacement boundary value problem for a penny-shaped crack, 5A396
KRISHNA, A: Finite element viscoelastic analysis of temperature and moisture effects in electronic packaging, 3A516
- Edge delamination of residually-stressed thin films: Viscoelastic effects, 10A779
KRISHNA, LG: Bounded displacement of a damped nonlinear string, 12T156
KRISHNAGOPALAN, J: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669
KRISHNAKUMAR , S: Double pass retroreflection for corrosion detection in aircraft structures, 6A694
KRISHNAKUMAR, K: Hybrid fuzzy logic flight controller synthesis via pilot modeling, 3T388
KRISHNAMOORTHY, CS: Post-buckling analysis of structures by three-parameter constrained solution techniques, 12A25
KRISHNAMURTHY, S: Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, 1A856
- Surface integrity studies on shot-penned thermal-treated En 24 steel spur gears, 12A937
- Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, 12A795
KRISHNAMURTHY, T: Efficient BEM for computing accurate stresses in 2D anisotropic problems, 8A400
KRISHNAMURTI, TN: Numerical weather prediction, 2A1267
KRISHNAMURTY, S: Loop configuration approach to automatic sketching of mechanisms, 9A1013
- Generalized exact gradient method for mechanism synthesis, 9A1017
KRISHNAN, A: Free vibration studies of arches, 4T189
KRISHNAN, S: Near-optimal 3D rotational maneuvers of spacecraft using manipulator arms, 1T412
KRISHNAN, SK: Suboptimal command generation for control moment gyroscopes and feedback control of spacecraft, 4A302
KRISHNAPRAKAS, CK: Application of accelerated interative methods for solution of thermal models of spacecraft, 1A921
- Optimum design of radiating rectangular plate fin array extending from a plane wall, 11T1211
KRISHNASAMI, K: Application of object - oriented design concepts in CIM systems layout, 2A333
KRISHNASWAMI, S: Net Shape Processing of Powder Materials, AMD-Vol 216 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N17
KRISHNASWAMY, NR: Liquefaction analysis of saturated reinforced granular soils, 1A693
KRISHNASWAMY, S: Cosserat-type model for the red blood cell wall, 12A1464
KRISMER, M: EBRA: A method to measure migration of acetabular components, 1A1459
KRISTINSDOTTIR, BP: Incorporating manufacturing tolerances in near-optimal design of composite structures, 11A492
KRIZ, RD: Effect of cooling rate and stacking sequence on the fatigue behavior of notched quasi-isotropic AS4-PEEK laminates, 11A630
KRIZEK, RJ: Mathematical model for bore-injected cement grout installations, 3A588
KRIZHANOVSKY, VI: Estimating limiting state under asymmetrical load and complex stressed state, 7A785
KRIZHEVSKY, C: Refined theory for vibrations and buckling of laminated isotropic annular plates, 8A117
KROGER, DG: Effect of mass transfer on turbulent friction during condensation inside ducts, 2A959
- Effect of the shape of the tower supports and walls on the performance of a dry-cooling tower subjected to cross winds, 2A1147
- Performance evaluation of dry-cooling systems for power plant applications, 6A1219
- Plume recirculation in mechanical-draft air-cooled heat exchangers, 7A1264
- Thermal performance reduction in air-cooled heat exchangers due to nonuniform flow and temperature distributions, 10A1310
- Flow distortions at the fan inlet of forced-draught air-cooled heat exchangers, 12A1257
KROGER, M: Extended FENE dumbbell theory for concentration dependent shear-induced anisotropy in dilute polymer solutions, 8A858
KROGMANN, P: Boundary-layer transition on swept cylinders at hypersonic speeds, 9A1097
KROGSTAD, HE: Observations of the high-frequency range of the wave spectrum, 11A1415
KROL, M: Principles of design analysis of cylindrical prefabricated tanks prestressed by expanding concrete, 1A933
KROLAK, M: Interactive elastic buckling of thin-walled closed orthotropic beam-columns, 9A619
- Interactive elastic buckling of thin-walled open orthotropic beam-columns, 9A620
KROLAS, W: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
KROLIK, JL: Performance bounds on acoustic thermometry of ocean climate in the presence of mesoscale sound-speed variability, 6A266
KROLIKOWSKI, W: Theoretical Mechanics, Seventh Edition (Polish), 3N10
KROLL, L: Laminated cylindrical shells under mechanical and hygrothermal loads, 5A512
- Design and construction of hygro-thermally stable shells, 7A566
KROLL, N: Accurate flux vector splitting for shocks and shear layers, 2T188
KROMER, B: "Convective" flat plate collectors and their applications, 3A1363
KRONAST, W: LPCVD against PECVD for micromechanical applications, 10T460
KRONER , D: Measure-valued solutions of the Euler Equations for ideal compressible polytropic fluids, 7A1075
KRONER, D: Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions, 3A69
KRONER, E: Dislocations in crystals and in continua: A confrontation, 4A469
KRONGAUZ, Y: Coupled FE and element-free Galerkin method, 6A24
- Enforcement of essential boundary conditions in meshless approximations using FEs, 12A16
KROO, I: Subsonic wing planform design using multidisciplinary optimization, 1A1105
- Vortex-in-cell analysis of wing wake roll-up, 2A1024
KROO, IM: Variable-complexity genetic algorithm for topological design, 4A862
- Structural optimization for joined-wing synthesis, 7A1160
KROPINSKI, MC: Integral equation methods for Stokes flow and isotropic elasticity in the plane, 11A885
KROPINSKI, MCA: Hybrid asymptotic-numerical method for low Reynolds number flows past a cylindrical body, 4A978
KROPLIN, B: Active panel flutter suppression using self-sensing piezoactuators, 11A224
KROPP, W: Application of the time domain formulation of the method of equivalent sources to radiation and scattering problems, 7A338
KROSHILIN, VY: Hydrodynamics and heat transfer of a vapor-liquid flow in a channel of complex geometry, 1A1233
KROTHAPALLI, A: Instantaneous velocity measurements in laminar and turbulent premixed flames using on-line PIV, 3A1210
- Discrete tones generated by a supersonic jet ejector, 7A319
- Determinate model of thrust-augmenting ejectors, 7A1074
- Effect of counterflow on the development of compressible shear layers, 8A915
- Experimental study of compressible countercurrent turbulent shear layer, 9A1163
KROTKOV, E: Perception, planning, and control for autonomous walking with the ambler planetary rover, 8A354
KROTOV, VF: Global Methods in Optimal Control Theory - Pure and Applied Mathematics Series, Vol 195, 9R5
- Global Methods in Optimal Control Theory - Pure and Applied Mathematics Series, Vol 195, 11R20
KRSTIC, M: Control of wing rock motion using adaptive feedback linearization, 12A383
KRUCHININ, PA: Novel approach to the estimation of the limiting potential of an active vehicle suspension, 6A329
KRUCINSKA, I: Influence of fiber irregularity on the tensile properties of carbon and glass fibers, 1A534
- Effect of spinning solution filterability on selected properties of precursor PAN fibers and carbon fibers manufactured therefrom, 9A528
KRUCZYNSKI, DL: Experimental flow visualization for a large-scale ram accelerator, 6A1056
- Reacting flow simulation for a large-scale ram accelerator, 6A1211
KRUEGER, DL: Parametric uncertainty reduction in robust missile autopilot design, 11T316
KRUGER, F: Analysis of asymmetric multipathing with a generalization of the double-beam method, 12A1364
KRUGER, R: Three-dimensional analysis of center-delaminated unidirectional and multidirectional single-leg bending specimens, 3A703
- Three dimensional analysis and resulting design recommendations for unidirectional and multidirectional end-notched flexure tests, 4A511
KRUGER, RM: Numerical solution of spectral stochastic FE systems, 9A65
KRUGLICK, EJJ: Surface-micromachined components for articulated microrobots, 11A361
KRUMPOS, J: Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, 10A1334
- Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, 10A1335
KRUPA, A: Dynamical loads in a geared system with regard to shaft and bearing flexibility, 9A223
KRUPENIN, VL: Experimental study of distributed systems with a large number of impact pairs, 3T766
KRUSZEWSKI, J: Computer Aided Design CAD CAM Vibration of Mechanical Systems Numerical Approach: Selected Problems, Volume 2 - (Wspomaganie Komputerowe CAD CAM Drgania Ukladow Mechanicznych W Ujeciu Komputerowym: Zagadnienia Wybrane tom 2), 9R3
KRUSZKA, L: New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, 10A846
KRUT'KO, PD: Synthesis of algorithms for controlling the motion of mechanical systems by the method of suppression of kinetic energy, 6T283
- Control over chain mechanical systems, 7T396
- Control over the motion of two-mass systems, 10A435
- Parametrically adaptive drives of mechanical system: Control over the angular velocity, 12T412
KRUTH, JP: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
KRUZELECKI, J: Variational optimization of compression helical springs with respect to their stability, 2A823
KRUZHKOVA, EY: Express method for determination of polymer composite porosity (Russian), 8A464
KRYLOV, A: Simple waves in saturated porous media - I: The isothermal case, 11A920
KRYSA, J: Free convective mass transfer at down-pointing pyramidal electrodes, 7A1294
KRYSHTAFOVYCH, AA: Discontinuous contact of an anisotropic half-plane and a rigid base with disturbed surface, 5A408
KRYSKO, VA: Criteria of dynamic loss of the shell stability (Russian), 3A554
- Investigation of free vibration of flexible shells with finished shear rigidity by Neumark method (Russian), 7A173
KRYSL, P: Analysis of thin plates by the element-free Galerkin method, 6A478
KRYUKOV, NN: Solution of plate and shell theory problems using spline-functions: Survey (Russian), 7A606
- Solution of 2D problems of statics of shallow shells on the basis of spline-approximations (Russian), 7A622
- Solution of the problem on the bending of rectangular plates by means of B-splines, 7A613
KRYUTCHEN junctions, 3A713
KRZEMINSKI-FREDA, H: Correction of the roller generators in spherical roller bearings, 10A1007
KU YOON, YOUNG: Ultrasonic inspection of long steel pipes using Lamb waves, 8A700
KU, CP ROGER: Dynamic characteristics of hard disk drive spindle motors: Comparison between ball bearings and hydrodynamic bearings, 10A1221
KU, DN: Pulsatile flow in the human left coronary artery bifurcation: Average conditions, 9A1452
KU, FU-NENG: Stability of Euler, Lagrange and Kovalovskaya gyros in a Newtonian central force field with second order terms, 10A93
KUAI, XINGCHENG: Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), 4A608
KUANG , ZHENBANG: Contour integral method for stress intensity factors of mixed-mode crack (Chinese), 9A797
KUANG, JH: Crack initiation load characterization using the critical plastic energy, 8A565
KUANG, JS: Bimaterial interface cracks originating from holes, 4T875
KUANG, ZB: Stress and energy density fields near a blunted crack front in power hardening material, 2A638
- Yield function for porous ductile materials, 8A636
- Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, 10A737
KUANG, ZHEN-BANG: Interface crack propagation with variable velocity for longitudinal shear problems, 4A752
- Stress-intensity factor for a semi-elliptical surface crack at the thread root of a screwed-pipe joint, 8A616
KUANG, ZHENGBANG: Interface crack in bi-piezothermoelastic media, 9A828
KUBAN, BD: Fabrication of vascular replicas from magnetic resonance images, 5A1392
KUBAT, J: Stress relaxation: Experiment, theory and computer simulation, 7A521
KUBAT, L: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347
KUBAT, MJ: Stress relaxation: Experiment, theory and computer simulation, 7A521
KUBENKO, VD: Interrelation with cylindrical cavity of nonstationary spherical waves radiated by the interior source, 7A236
- Use of transition functions in the problems of nonstationary hydroelasticity for the systems of cylindrical shells, 7A290
- Plane problem of the shell impact against elastic half-space (Russian), 7A256
- Determining dynamic characteristics of ideal noncompressible liquid excited by spherical segment in cylindrical cavity, 9T315
KUBIE, J: Effect of vortices on liquid outflow from vessels, 4A955
KUBIK, J: Continuum modeling of porous media containing fluid: A molecular viewpoint with particular attention to scale, 2A1212

- Analysis of interaction of impulse-like pressure wave in a fluid with deformable layer of porous material, 3A1263

KUBO, K: Effect of grinding on fatique behavior of ceramics at ambient temperature, 3A628

KUBO, S: Thermal residual stresses in bonded dissimilar materials and their singularities, 10A1340

KUBO, T: Stability of a stretching capillary jet with parabolic axial velocity, 2A982

KUBO, Y: Basic study on a noise barrier for reduction of wind load (Japanese), 9A1431

KUBOTA, H: Study of small hole drilling under the feed with vibration (Japanese), 1A728

KUBOTA, M: Application of a non-equilibrium suspended sediment model into the Tenryu-Gawa river (Japanese), 3T883

KUBOTA, T: Application of mechatronics technology to injection molding machine (Japanese), 1T733

- Turbulent flow simulation of a runner for Francis hydraulic turbines using pseudo-compressibility, 12A1183

KUBYSHKIN, EP: Influence of vibration on the wave pattern in a ring resonator, 10A91

KUCERA, M: Bifurcation for quasi-variational inequalities of reaction-diffusion type, 2T1186

- Reaction-diffusion systems: Bifurcation and stabilizing effect of conditions given by inclusions, 12T1295

KUCHAR, JK: Methodology for altering-system performance evaluation, 8T348

KUCHARSKI, S: Cyclic loading of a notched element with a technological surface layer, 9A511

KUCHERYAVYI, VI: Statistical simulation of the life of rolling bearings, 5T834

- Simulation of the probability of integrity of machine parts subjected to a random combined influence, 6T859

- Reliability of machine parts subjected to random pulsed torsion, 9A1029

- Statistical simulation of the life of lumber straddle carriers with allowance for the mode of operation, 12T988

KUCHUGURINA, OY: One-dimensional linear waves with axial and central symmetries in saturated porous media, 9A1356

KUCHUK, FJ: Solution of pressure diffusion in radially composite reservoirs, 3A1270

KUCHYNSKY, T: Fast algorithm for edge structure detection in monochrome and color images, 6A282

KUCIK, P: Pressure control by proportional pressure valve (Polish), 11A801

KUCK, J: Efficiency of vapor-pump-equipped condensing boilers, 6A1156

KUCKARTZ, B: Determination of limits for smallest detectable and largest subcritical leakage cracks in piping systems, 3A1359

KUCUKBURSA, A: Symmetry groups of boundary layer equations of a class of non-Newtonian fluids, 11A853

KUCZYNSKI, W: Proper interpretation of the utilization state of structures (Polish), 6T751

KUDLICKA, J: Dispersion of axisymmetric elastic waves in a hollow anisotropic cylinder (Polish), 11A165

KUDO, I: Visualization of solidification process in kinetics control system with interferometry, 1A1263

KUDO, S: Bacterial motion and flagellar motors, 12T1469

KUDOH, T: Resistive-MHD winds from rapidly rotating stars, 3A982

KUDOUGH, F: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871

KUDRIAVTSEV, VV: Model developments for the brush seal numerical simulation, 6A850

- Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699

KUDRITSKAYA, LV: Methods of liquid feeding to a capillary-porous coated surface, 10A1285

KUDRYAVTSEV, IS: Enhancement of heat transfer in steam generating tubes, 1A1280

KUDRYAVTSEV, L: Elastic buckling of a circular disk due to internal membrane forces, 5T528

KUENY, JL: Numerical calculation of 2D, unsteady flow in centrifugal pumps: Impeller and volute interaction, 9A1235

KUERTEN, H: Comparison of numerical schemes in large-eddy simulation of the temporal mixing layer, 7A1134

KUERTEN, JGM: Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, 4A1006

KUESTER, EF: Computable error bounds for variational functionals of solutions of a convolution integral equations of the first kind, 4A251

KUGE, K: July 12, 1993 Hokkaido-Nansei-Oki, Japan, earthquake: Effects of source complexity on surface-wave radiation, 11A1341

KUGELMANN, B: Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, 8T316

KUHL, AL: Inviscid dynamics of 2D shear layers, 9A1168

KUHLMANN, HC: Investigation of 3D thermocapillary convection in a cubic container by a multi-grid method, 4A1151

KUHN, E: Description of the engy level of tribologically stressed greases, 3A1003

KUHN, G: High-performance multilevel iterative aggregration solver for large FE structural analysis problems, 3A28

KUHN, J: Dependent scattering effects in latex-sphere suspensions and scattering powders, 3A640

KUHN, TP: Effects of variational particle restitution characteristics on turbomachinery erosion, 5A227

KUIKEN, GDC: Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, 3A943

KUIKEN, HK: Boundary-layer analysis of the thermal bar, 4A1150

- Centenary of a paper on slow viscous flow by the physicist HA Lorentz, 11A878

KUIPER, J-H: Comparison of FE codes for the solution of biphasic poroelastic problems, 12A5

KUJALA, P: Semi-empirical evaluation of long term ice loads on a ship hull, 12A859

KUJATH, MR: Nonstationary random response of a vehicle with a varying structure, 2A284

- Extraction of transient signals from nonperiodic dynamic responses, 5A302

- Stochastic response of a flexible mobile robotic manipulator structure, 9A455

KUJAWSKI, D: Rate-frequency-dependent behavior of fiberglass-epoxy laminates in tensile and cyclic loading, 1A545

- Behavior of small corner cracks in a ferritic pearlitic steel: Experiments and analysis, 1A747

- Rate-dependent behavior of ±55° filament-wound glass-fiber-epoxy tubes under biaxial loading, 7A565

KUK, H: Sensitivity analysis in vector optimization, 12T333

KUKHARKIN, NN: Coherent structure formation, phase correlations, and finite-size effects in 2D turbulence, 10A1180

KUKLA, S: Longitudinal vibration of rods coupled by translational springs, 2T93

- Free vibration of a rectangular plate loaded by a non-uniform in-plane force, 4A168

KUKNER, A: High speed hull form optimization for seakeeping, 2A1005

KUKREJA, RT: Heat (mass) transfer in a serpentine channel with right-angled turns, 8T1072

KUKRETI, AR: Design of eight-bolt end-plate connection considering both the beam and column sides of the connection, 2A722

- Differential quadrature and Rayleigh-Ritz methods to determine the fundamental frequencies of simply supported rectangular plates with linearly varying thickness, 7A154

- Hysteretic behavior prediction of full and partial penetration transverse groove welded joints, 7A1029

KUKSENKO, V: Two-stage model of fracture of rocks, 10A695

KUKUCHEK, P: Processing monitoring of carbon-phenolic composites using smart sensors, 1A589

KUKUDZHANOV, SN: Effect of orthotropy on the stability of nearly cylindrical shells of revolution, 3A556

KUKUDZHANOV, VN: Solving 3D elastic problems in determining residual stresses in anisotropic materials, 7A510

KUKULKA, DJ: Thermal stratification effects near a vertical ice slab in cold water, 1T1184

KULA, P: "Self-lubrication" by hydrogen during dry friction of hardened surface layers (Polish), 6A782

KULAK, RF: Fluid-Structure Interaction and Structural Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N14

KULAKOV, VL: Evaluation of potentialities of composites application in ship shaftlines (Russia), 8A467

KULATILAKE, PHSW: Spectral-based peak-shear-strength criterion for rock joints, 3A593

KULCHITSKII-ZHIGAILO, RD: Sliding bodies contact with wear, 6A802

KULCHYTSKY-ZHYHAILO, RD: Approximate solution of the thermoelastic contact problem with frictional heating in the general case of the profile shape, 7A503

KULCZYCKA, E: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450

KULCZYCKI-ZYGAJLO, R: Three-dimensional problems of multilayered periodic elastic composites, 3A504

KULGINA, LM: Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, 1A1281

KULHAWY, FH: Laborstory modeling of laterally-loaded drilled shafts in clay, 6A541

KULIBABA, VV: Mathematical simulation and FE analysis of the strength reliability of ceramic structures, 7T585

KULICHIKHIN, SG: Rheokinetics of urea-formaldehyde resins gelation, 9A1036

KULIEV, SA: Bending of a circular ring beam with rectilinear cuts, 10T598

KULIKOVSKII, AG: Effect of slight anisotropy on the properties of shock waves in a compressible elastic medium, 8A170

KULIKOVSKIY, AG: Shock-capturing approach and nonevolutionary solutions in magnetohydrodynamics, 11A1009

KULIKOWSKI, JL: Fast algorithms of linear discrete image filtering, 10A404

KULKARNI, A: Elucidation of pressure drop in packed-bed systems, 6A1221

KULKARNI, M: Stability and error analysis for time integrators applied to strain-softening materials, 1A524

- Sensitivity analysis for the dynamic response of thermoviscoplastic shells of revolution, 10A188

KULKARNI, NM: Dynamic model for end milling using single point cutting theory, 11A592

KULKARNI, SM: Noncontacting strain measurements during tensile tests, 10A856

KULLIG, E: Fracture mechanics assessment of planar branched cracks in an equibiaxial stress field, 5A659

KULP, TJ: Experimental analysis of pore-scale flow and transport in porous media, 8A1325

KULPA, Z: Computed-assisted hybrid reasoning in simulation and analysis of physical systems, 3A68

KUMADA, M: Problems from the view point of corrosion control on troubles caused by localized corrosion (Japanese), 6A623

KUMAGAI, A: Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, 12A456

KUMAGAI, N: Development of hybrid rail brake, 6A842

KUMAGAI, T: Numerical analysis of equation of motion for a cluster of spheres in fluid at low Reynolds numbers, 4T1004

KUMAGAI, Y: Ultimate strength of stiffened plates subjected to biaxial forces (Japanese), 11A524

KUMAI, S: Effects of dendrite cell size and particle distribution on the near-threshold fatigue crack growth behavior of cast Al-SiCp composites, 11A625

KUMAKURA, S: Sectional area for calculation of deformation in screw thread (Japanese), 3A430

- Study on torque, axial tension and bending moment in the screw tightening - First Report: Relation between torque on fitted portion of threads and axial tension (Japanese), 12A469

KUMAN, SNK: Fully spectral solution method for parabolic equations, 2A56

KUMANO, H: Contact stress in a bolted joint with a threaded bolt, 10A1033

KUMAR , S: Instantaneous thermal efficiency of an active solar still, 5A1348

KUMAR, A: Polycrystal plasticity modeling of bulk forming with FEs over orientation space, 6A455

- Delay effects in fatigue crack propagation, 8A570

- Effect of rest time after application of single overload cycle on fatigue life, 10A782

- Stability of a rigid rotor in turbulent hydrodynamic worn journal bearings, 11A1076

- Simulation of shock-induced combustion past blunt projectiles using shock-fitting technique, 11A1289

- Application of short bearing theory to analyze the effect of variable permeability on steady state performance of turbulent hydrodynamic porous journal bearings, 11A819

- Simulation of texture evolution with FEs over orientation space - II: Application to planar crystals, 12A580

- Simulation of texture evolution with FEs over orientation space - I: Development, 12A579

KUMAR, AN: Modeling of rotational factor in notched bend specimen under general and local yield situation, 4A714

KUMAR, AV: Synthesis of optimal shape and topology of structures, 8A838

KUMAR, H: Investigation of the loads on truck cabin aerodynamic devices, 7A976

KUMAR, K: Comparative study for the estimation of parameters in nonlinear models, 12A61

- Application of Hankel matrices in polynomial regression, 12A59

KUMAR, KS: Chaotic dynamics of periodically forced spheroids in simple shear flow with potential application to particle separation, 4A876

- Analysis of a cracked lug loaded by an interference fit pin, 12A734

KUMAR, P: Wavelets in Geophysics - Wavelet Analysis and Its Applications Series, Vol 4, 1N37

- Winter-time convection in open-graded embankments, 8A1077

- Hall effect on thermosolutal instability in a Maxwellian viscoelastic fluid in porous medium, 9A1204

- Application of short bearing theory to analyze the effect of variable permeability on steady state performance of turbulent hydrodynamic porous journal bearings, 11A819

KUMAR, R: Bouyant pulsating exchange flow through a vent, 3A1032

- Delay effects in fatigue crack propagation, 8A570

- Effect of rest time after application of single overload cycle on fatigue life, 10A782

KUMAR, RK: Entrainment and mixing in vertical buoyant light-gas plumes, 8A1244

KUMAR, RR: Fuel-optimal stationkeeping via differential inclusions, 3T349

- Gravity anchoring for passive spacecraft damping, 5T746

- Simulation and Shuttle Hitchhiker validation of Passive Satellite Aerostabilization, 5A244

- Finite difference scheme for automatic costate calculation, 6A306

- Estimation of mixing of high-speed streams, 8A954

- Should controls be eliminated while solving optimal control problems via direct methods?, 8A289

- Dense-sparse discretization for optimization and real-time guidance, 8T308

- Parametric and classical resonance in passive satellite aerostabilization, 10A950

KUMAR, S: Distributed FE analysis on network on workstations: Implementation and applications, 2A22

- Distributed FE analysis on network of workstations: Algorithms, 2A21

- Experimental evidence of hyperbolic heat conduction in processed meat, 3A1104

- Concurrent structural optimization on massively parallel supercomputer, 3A753

- Crack propagation in piezoelectric materials under combined mechanical and electrical loadings, 5A586

- Nonlinear lateral pile deflection prediction in sands, 7A707

- Design performance and economics of a low-cost solar wax melter for the candle industry, 8A1383

- Delay effects in fatigue crack propagation, 8A570

- Micro-stress distribution within polycrystalline aggregate, 8A463

- Evolutionary-degrading hysteretic model for thin-walled steel structures, 11A1412

KUMAR, SS: Importing mesh entities through IGES-PDES, 5A41

- Dynamic and static torsional characterization of pultruded hybrid cylindrical composite rods, 12A569

KUMAR, V: Vibrations of composite noncircular cylindrical shells, 5A481

- Vibration of laminated shallow shells on quadrangular boundary, 10A197

KUMARAN, S: Comparison of parallelization techniques for a FE quasigeostrophic model of regional ocean circulation, 6A23

KUMARAN, V: Stability of the flow of a fluid through a flexible tube at high Reynolds number, 4A1056

KUMARI, M: Nonsimilar mixed convection flow of a non-Newtonian fluid past a vertical wedge, 5A1135

- Boundary layer development on a continuous moving surface with a parallel free steam due to impulsive motion, 10A1245

- Compressible boundary layer flow over a moving surface with a magnetic field, 11A1006

KUMASAKA, H: Stress distributions around circular inclusion in infinite plane for nonlocal elasticity (matrix and circular inclusion have the same nonlocal coefficients), 10A693

KUMAZAKI, I: Elasto-plastic analysis with constitutive relation based on fuzzy reasoning, 1A3

KUMBARO, A: Approximate linearized Riemann solver for a two-fluid model, 9T1133

KUMEHARA, H: Tribology in tightening of threaded fastener, 10T1017

KUMOSA, M: Application of the biaxial Iosipescu method to mixed-mode fracture of unidirectional composites, 1A806

- Finite element analysis of substation composite insulators, 7A20

- Optimization of the adhesive joint Iosipescu specimen for pure shear test, 12A998

KUNDRA , TK: Reanalysis of plates modified by free damping layer treatment, 4A171

KUNDROTAS, K: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701

KUNDU, T: Stress singularities at crack corners, 1A458

- Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, 4A776

- Spherical inclusion characterization by the acoustical microscope: Axisymmetric case, 6A248

KUNES, J: Heat transfer during quenching of turbine rotor parts, 12A680

KUNG, AWC: Thyroid diagnosis by thermogram sequence analysis, 3A1415

KUNG, KUANG YUAN: Compositionally convective and morphological instabilities of a binary fluid layer under freezing with nonlinear analysis, 4A1242

- Thermal stability of horizontally superposed porous and fluid layers in a rotating system, 8A1087

KUNG, KUANG-YUAN: Runge-Kutta method for a two-layer system to shoot from two constraint sets to the same target set, 11A50

KUNG, L-W: Inclined and horizontal wall plumes, 11A1118

KUNIEDA, M: Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), 9A910

- Influence of plasma extinction on machining stability in EDM process (Japanese), 12A688

KUNIHARA, H: Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), 11A642
KUNIHIRO, M: Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), 1A651
KUNIN, I: G-moving frames and their applications in dynamics, 4A95
KUNINAKA, H: Space experiment on plasma interaction caused by high-voltage photovoltaic power generation, 5A753
KUNISCH, K: Augmented Lagrangian-SQP methods for nonlinear optimal control problems of tracking type, 10T410
KUNITO, T: Investigation on leakage characteristics of retaining wall by impedance measurement (Japanese), 7A714
KUNITSUGU, K: Natural convection suppression by azimuthal partitions in a horizontal porous annulus, 6A1099
KUNNATH, SK: Inelastic response to the Cypress Viaduct to the Loma Prieta earthquake, 2A1243
KUNOV, MJ: Particle volumetric residence time calculations in arterial geometries, 11A1466
KUNTZ, DW: Analysis of the photodiode boundary-layer transition indicator, 1A1045
- Shear-stress-sensitive liquid crystals for hypersonic boundary-layer transition detection, 5A929
KUNUGI, T: Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, 12A1228
KUNZE, EL: Versatile fluid-mixing device for cell and tissue microgravity research applications, 7A306
KUO , YI-YU: Analysis of forces due to irregular waves exerted on a ship near a harbor entrance, 7A1047
KUO, C: Study of pore pressures induced in laboratory dynamic consolidation, 8A531
KUO, CH: Note on the line spring solution for a part-through crack, 4A760
KUO, CHENG-HSIUNG: Vortex characteristics over delta wing subject to transient along-core blowing, 4T1109
KUO, CHENG-SHU: Horizontal flow boiling of R22 and R407C in a 9.52 mm micro-fin tube, 12A1230
KUO, CHIH-YU: Oscillations of a moderately under-expanded choked jet impinging upon a flat plate, 11A975
KUO, CHUN-PAO: Adaptive control of a zero-stiffness suspension system, 12A397
KUO, CHUN-YI: Uniformity evaluation of cohesionless specimens using digital image analysis, 10A669
KUO, CHUNG CHENG: Solvability of nonself-adjoint resonance problems, 5T97
KUO, CR: Experimental studies and correlations of radially-outward and inward air-flow heat transfer in a rotating square duct, 8A1103
KUO, CS: In-tube evaporation of HCFC-22 in a 9.52 mm micro-fin-smooth tube, 11A1181
KUO, KK: Recent Advances in Spray Combustion, Vol I and II, 3N46
KUO, KT: Flow developements above 50-deg sweep delta wings with different leading-edge profiles, 1A1102
KUO, M-K: Determination of elastic constants of a concrete specimen using transient elastic waves, 3A722
KUO, MING JUN: Time-optimal control of multiple cooperating manipulators with trajectory and motion program constrains, 8A362
KUO, SHYANG-LIN: Role of mainstream flow velocity in film cooling in a duct, 10T1251
KUO, SHYH-RONG: Tracing postbuckling paths of structures containing multi-loops, 4A566
- Simplified procedure for formulation of soil-structure interaction problems, 12A1396
KUO, WEN-FENG: Multilevel solution for thermal elastohydrodynamic lubrication of rolling-sliding circular contacts, 6T1049
KUO, YING SHENG: Numerical study of the turbulent heat transfer in a motorized engine utilizing a two-boundary method-grid generation technique, 1A1225
KUPERMAN, WA: Parabolic equation for poro-elastic media, 1A1368
KUPFERSCHMIED, P: Fast-response probes - Part I: Technology, calibration, and application to turbomachinery, 5A1077
KUPIAINEN, A: Stable nonGaussian diffusive profiles, 4T1241
KUPPER, T: Computation of Hopf branches bifurcating from a class of Hopf-steady-state points, 12A72
KUPPURAO, S: Parallel computation of radiation view factors between two arbitrarily oriented surfaces, 7A1259
KUPTSOV, YE: Examination of contact wire wear and increase of its durability, 5A808
KURABAYASHI, T: Microphysical investigations on mechanical structures realized in p+ silicon, 5T352
KURAMOTO, H: Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, 3A777
KURAMOTO, K: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737
KURAMOTO, N: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
KURAN, B: Modal superposition method for nonlinear structures, 7A122
KURANISHI, S: Numerical identification of secondary buckling phenomena of elastic rectangular plate under pure bending (Japanese), 1A658
KURASAWA, T: Magnetohydrodynamic instability in axisymmetric spherical plasma with parallel flow to magnetic field, 2A1000
KURASHIGE, M: Computer simulation to evaluate effective elastic moduli of sintered spherical particles: Examination of simulation technique by 2D model, 3A13
- Thermal stresses in a fluid-saturated poroelastic hollow sphere, 8A1226
- Integral equations for a 3D crack in an infinite, fluid-filled, poroelastic solid with zero permeability in one direction, 9A1367
KURASHIKI, K: Effects of matrix resin and fiber content on behavior of fatigue crack propagation in continuous-fiber-mat reinforced CP-resin composites (Japanese), 12A713
KURATH, P: Characteristics of the Armstrong-Frederick type plasticity models, 12A512
KURAVSKY, LS: Plate backed by a cavity: The features of dynamic instability, 8A228
KURBANOV, KR: Magnetotransport characterization of HgCdTe solid solutions structural quality, 6A520
KURDILA, AJ: Affine fractal interpolation functions and wavelet-based FEs, 6A30
- Adaptation of centers of approximation for nonlinear tracking control, 8T305
- Conditioning of numerical boundary measures in wavelet Galerkin methods, 11A62
KUREK, JE: Robust stability region for linear continuous-time systems, 3A312
KURFESS, TR: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
KURIAN, J: Experimental study on mixing enhancement by petal nozzle in supersonic flow, 6A967
- Estimation of mixing of high-speed streams, 8A954
- Preliminary studies on dual-mode combustion ramjet using petal nozzle, 8A1293
KURIAN, NP: Studies on the behavior of axially loaded tapered piles by the FEM, 5A555
KURIHARA , Y: Vehicle weight reduction obtained with lightweight materials, 3A817
KURIHARA, K: Development of novel material shield-cuttable tunnel-wall system (Japanese), 4T821
- Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), 5A569
KURIHARA, N: Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), 9A910
KURIMA, J: Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expanded bed surface of a gas fluidized bed: Conditional sampling statistical analysis, 2A1220
KURIMOTO, M: Inspection and repair strategy in automated assembly systems (Japanese), 1A444
KURIMOTO, S: Press-formability of aluminum clad stainless steel sheet, 12A682
KURIOWA, T: Large-scale grounding experiments and numerical simulations, 12A858
KURITA, T: Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), 5T1332
- Sensitivity analysis on model parameter errors and measurement noises in frequency domain identification problems (Japanese), 5A115
- Confidence region of identified parameters depending upon known parameters errors (Japanese), 11A156
KURIYAGAWA, T: Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), 4T644
- Studies on centerless grinding (2nd Report): Optimum grinding conditions (Japanese), 9A715
- Development of wheel spindle for ultra-high speed surface grinding machine - 1st Report: Studies on ultra-high speed grinding (Japanese), 11A603
KURIYAMA, H: Effects of restressing on the mechanical properties of stress-shielded patellar tandons in rabbits, 11A1453
KURJATKO, S: Effect of ultrasonic waves on the penetration of creosote into spruce wood, 11T251
KURKLU, A: Mathematical modeling of the thermal performance of a phase-change material store: Cooling cycle, 11A1240
KURLANDZKA, ZT: Radial crack in elastic dielectric cylinder - I: Formulation of the problem for interactions of dielectric with electrostatic field, 1A685
- Radial crack in elastic dielectric cylinder - II: Stress intensity coefficient K_I, 1A686
KURNIK, W: Chaotic vibration of a journal-bearing system, 1A943
- Active magnetic antiwhirl control of a rigid rotor supported on hydrodynamic bearings, 3A361
- Simplified analysis of displacements, load capacity and damping of laminated shafts, 9A598
- Effect of torque in bifurcation of a rotating shaft, 9T206
- Resonant characteristics of a rotor-bearing system with the support length taken into account, 9A1004
- Optimum design of a thin-walled laminated rotating shaft, 9A892
KURNY, ASW: Study of wear of as-cast and heat-treated spheroidal graphite cast iron under dry sliding conditions, 3A828
KUROBE, T: Study on ultra fine NC polishing with constant cutting depth: Surface polishing characteristics and influence of viscosity of polishing compound (Japanese), 2A548
- Study on grinding-like polishing using magnetic fluid: Surface polishing characteristics of Si-wafer (Japanese), 5A578
KURODA, I: Fundamental study on the thermal properties of concrete structural members under external high temperature loading (Japanese), 9A1276
KURODA, M: Plastic spin associated with a corner theory of plasticity, 1A493
- Active control of acoustic power radiated from a vibrating planar structure using smart sonacs: Acoustic power suppression using adaptive feed-forward control, 9A370
KURODA, S: Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), 1A1390
- Study on vibrational damping of microcantilevers (Japanese), 12A140
KURODA, T: Development of cryosorption pump for neutral beam injector, 11A1051
KUROKAWA, T: Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
- Estimation of mode I interlaminar fracture toughness of CFRP laminates by using wedge insert fracture test (Japanese), 12A731
KUROSAKA, M: Supersonic cooling by shock-vortex interaction, 8A211
KUROSAKI, Y: Development of a small actuator with three degrees of rotational freedom - 3rd Report: Design and experiment of a spherical actuator (Japanese), 11A369
KUROSE, M: Fractal characteristics of stress corrosion cracking in SNCM 439 steel having different prior-austenite grain sizes, 6A622
KUROSHIMA, Y: Machinability of sintered carbons based on the correlation between tool wear rate and physical and mechanical properties, 12A943
KURPATENKOV, VD: Short nozzles for rocket engines, 6A961
KURPISZ, K: Inverse Thermal Problems, 7R27
KURSKAYA, TN: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
KURTEV, I: Unsteady heat transfer in a liquid film on a rotating disk, 9A1254
KURTYKA, T: Evolution equations for distortional plastic hardening, 11A452
KURTZ, HL: Arcjet development for amateur radio satellite, 7A987
KURTZ, J: Emission spectra of burning iron in high-pressure oxygen, 9A1332
KURTZ, SK: Micro-stress distribution within poly-crystalline aggregate, 8A463
KURU, M: Imaging the permeability structure of a limestone aquifer by crosswell acoustic tomography, 3A1301
KURUTZ, M: Equilibrium paths of polygonally damaging structures - Part One: The nonsmooth nonconvex stability problem, 7A646
- Equilibrium paths of polygonally damaging structures - Part Two: 1D example for nonsmooth damage and localization, 7A647
KURZWEG, UH: Enhanced axial dispersion in oscillating pipe flow with different solute concentrations at its ends, 9A1144
KURZYNA, J: Stability of plasma induced during CW CO_2 laser welding, 3A643
KUS, S: Shaping structures for least-weight (Polish), 3A773
KUS, Z: Probabilistic model for concrete subjected to variable loading, 3A772
- Probabilistic model for concrete subjected to variable loading, 9A880
KUSAKA, M: Evaluation of adhesive strength of resin liner film, 10A1038
KUSAKA, T: Estimation of mode I interlaminar fracture toughness of CFRP laminates by using wedge insert fracture test (Japanese), 12A731
KUSAKABE, O: Centrifuge modeling of shield tunnel construction processes (Japanese), 7A711
- Stress level and soil structure effects on bearing capacity characteristics of naturally deposited sand (Japanese), 7A704
KUSAKARI, T: Piezo-driven 3D positioning mechanism with single-stage structure (Japanese), 7A456
KUSANO, K: Solid-liquid phase-change heat transfer around two horizontal, vertically spaced cylinders: An experimental study on the effect of density inversion of water, 4A1209
KUSHCH, VI: Elastic equilibrium of a medium containing a finite number of aligned spheroidal inclusions, 6A387
- Stressed state and efficient elastic modules of the medium reinforced by periodically distributed spheroidal incorporations (Russian), 7A490
KUSHIMA, T: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
KUSHWAHA, RL: Investigation on contact mechanics between soil and metal, 6T822
KUSIAK, A: Overview of Kanban systems, 10A507
KUSIAK, J: Technique of tool-shape optimization in large scale problems of metal forming, 10A709
- Proceedings of the 6th International Conference on Metal Forming, Akademia Gornicao-Hutnicza, Krakow, Poland June 23-26, 1996, 12A674
KUSKOV, VN: Wear of lathe tools hardened in oxide melt, 6A809
KUSSMAUL, K: Extended and updated selected papers from ENS TOPNUX '93, Hague, Netherlands, April 25-28, 1993, 8T1376
KUSTAS, FM: Lubricious-surface-silicon-nitride rings for high-temperature tribological applications, 6T814
KUSUDA, T: Kinetic study and mathematical modeling of biofilm in a methanogenic fluidized bed (Japanese), 6A1224
KUSUMOTO, S: Equivalent polynomial approximation technique in nonlinear structural dynamics, 2A150
- Asymptotic solution of a class of nonlinear non-autonomous systems with large damping under multiple external periodic forces, 8A77
- Exact stationary response solutions of nonlinear dynamic systems, 9A153
- Response of a nonlinear system with strong damping to multifrequency excitations, 10A136
KUTWA, V: Generalized method for the solution of flows in networks, 2T852
KUTLU, Z: Composite panels containing multiple through-the-width delaminations and subjected to compression - Part I: Analysis, 1A808
- Composite panels containing multiple through-the-width delaminations and subjected to compression - Part II: Experiments and verification, 1A809
KUTSUMI, T: Application of a non-equilibrium suspended sediment model into the Teruyu-Gawa river (Japanese), 3T883
KUVYRKIN, GN: Thermomechanical model of nonlinear deformation of carbon-carbon composites with 3D reinforcements, 5T1195
KUWABARA, K: Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), 7T779
KUWABARA, O: Mask-to-wafer fine gap setting method, 1A384
KUWADA, T: Static and dynamic stiffness of 1/10 tapered joints for automatic changing, 9A227
KUYPER, RA: Laminar natural convection flow in trapezoidal enclosures, 1A1188
KUZ'MENKO, VG: Algorithms of analytical compensation for systematic drifts of a noncontact gyro, 5A83
- Identification of the model of noncontact gyro drift on the basis of bench test results, 7A99
KUZ'MIN, AA: Fatigue-energy model of exhaust valve erosion, 6A879
- Analysis of the reliability of internal combustion engine exhaust valves, 9A1027
- Fundamentals of the service life design of diesel exhaust valves, 12A985
KUZ'MIN, VV: Solution of geometrically nonlinear problem for stiffened shell of revolution taking into account loads rotation under deformation, 6A484
KUZAROW, AS: Kinetic description of self organization in friction process (Polish), 6A786
- Research of non-wear effect in material system: Steel-brass-glycerine (Polish), 6A837
KUZAY, TM: Enhanced heat transfer in round tubes with porous inserts, 11A1152
KUZMA, VM: Optical moments of time for measuring random vibrations, 9A179
KUZMA-KICHTA, YA: Effect of flow swirling and porous coating on critical heat flux in a horizontal tube with nonuniform heating, 1A1236
KUZMIN, NN: Wear resistance of rail and wheel steels, 5A818
KUZMIN, SN: Three-phase fluidized bed for quenching steel parts, 10A1421
KUZMIN, VP: Approximate probability estimation of aircraft large deviation trajectory parameters under random perturbation, 10T1203
KUZNETSOV, AI: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812
KUZNETSOV, AO: Capillary-gravity waves over a flat surface, 10A292
KUZNETSOV, AV: Development and investigation of three-phase model of the mushy zone for analysis of porosity formation in solidifying castings, 1A1359
- Perturbation solution for the pressure and porosity distributions for the three-phase model of the mushy zone, 2T1117
- Analytical solution for heating a 2D porous-packed bed by a non-thermal equilibrium fluid flow, 3A1068
- Stochastic modeling of heating of a 1D porous slab by a flow of incompressible fluid, 8A1114
- Analysis of heating a 3D porous bed utilizing the two energy equation model, 8A1317

- Investigation of the working cycle of a metal hydride heat transformer for upgrading waste heat, 10A1317
- Perturbation solution for a nonthermal equilibrium fluid flow through a 3D sensible heat storage packed bed, 11T1157
- Comparison between the two- and three-phase models for analysis of porosity formation in aluminum-rich castings, 12A1342

KUZNETSOV, IA: Loading surface effect vehicle during flight over non-regular sea wave, 8A230

KUZNETSOV, MM: Efficiency of shock wave scramjet and shock-free scramjet, 10A1404

KUZNETSOV, N: Trapping of waves by horizontal cylinders in a channel containing two-layer fluid, 9A294

KUZNETSOV, ND: Multiburner combustors: A prospective trend of the development of aircraft engines, 5T1238

KUZNETSOV, NG: Uniqueness in linearized 2D water-wave problems for two surface-piercing bodies, 3A891

KUZNETSOV, SV: Elastic wave scattering in porous media, 6A185
- Longitudinal elastic waves in anisotropic media, 7A231

KUZNETSOV, VI: Aircraft and rocket engine design: Opportunity of using birotative turbine with straightening cascade in turbojet by-pass engines, 8A1290

KUZNIAR, K: Damping of vibration in precast buildings with bearing concrete walls, 3A151
- Damping of vibration in precast buildings with bearing concrete walls, 9A951

KVASNAK, W: Fibrous particle decomposition in a turbulent channel flow: An experimental study, 4A1285

KVET, V: Non-local energetic strength criterion applied to steel elements in combined tension and bending, 11A500

KWACK, EY: Flow rate-pressure drop relation in coronary angioplasty: Catheter obstruction effect, 9A1449
- Flow measurements in an aortocoronary bypass graft casting, 11A1471

KWAK, BM: Post-buckling analysis with frictional contacts combining complementarity relations and an arc-length method, 9A615

KWAK, BYUNG MAN: Post buckling analysis of nonfrictional contact problems using linear complementarity formulation, 2A484
- Reliability-based shape optimization of 2D elastic problems using BEM, 12A828

KWAK, D: High-lift design optimization using Navier-Stokes equations, 11A1021

KWAK, DO Y: P-cycle analysis of multigrid method, 8A36

KWAK, HG: New reinforcing steel model with bond-slip, 8A751
- Direct-search approach to optimum spiral column design, 9A911

KWAK, MK: Dynamic modeling and vibration suppression of a slewing structure utilizing piezoelectric sensors and actuators, 7A400
- Fuzzy-logic based vibration suppression control experiments on active structures, 9A241
- Hydroelastic vibration of rectangular plates, 9A307
- Free vibrations of annular plates coupled with fluids, 10A306

KWAK, YOON KEUN: Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, 4A486
- Adaptive control for time optimal tracking systems, 10A405

KWAN, ASK: Parabolic pantographic deployable antenna, 10A928

KWAN, CM: Sliding control using output feedback, 11T301

KWAN, KM: Effect of surface characteristics of polymeric materials on the strength of bonded joints, 11A845

KWASNIOK, F: Reduction of complex dynamical systems using principal interaction patterns, 10A114

KWATRA, HS: Performance of a solar still: Predicted effect of enhanced evaporation area on yield and evaporation temperature, 9A1419

KWEH, CC: Conditions for scuffing failure of ground and superfinished steel disks at high sliding speeds using a gas turbine engine oil, 5T790

KWEK, KENG-HUAT: Chaotic dynamics and subharmonic bifurcations in a nonlinear system, 11A84

KWEON, YOUNG-GAK: Effects of retained austenite on dry sliding wear behavior of carburized steels, 11A809

KWIDZINSKI, R: Evaluation of the relaxation time of heat and mass exchange in the liquid-vapor bubble flow, 5A1161
- Viscous term in the model of two-phase bubble flow, 9A1126

KWIEK, P: Determination of the phase of an ultrasound field using light diffraction, 11T262

KWOK, KCS: Use of viscoelastic dampers in reducing wind- and earthquake-induced motion of building structures, 4A219
- Performance of tuned mass dampers under wind loads, 4A218

KWOK, YUE-KUEN: Accuracy and stability of numerical schemes for the shallow water model, 5A208

KWON, HYU-SANG: Minimization of bias error due to windows in planar acoustic holography using a minimum error window, 3A302

KWON, MJ: Observation of near-planar spinning premixed flames in a sudden expansion tube, 9A1312

KWON, TH: Modeling and numerical analysis of compression molding of 3D thin parts with curing process, 5A583

KWON, WH: Bounds in algebraic Riccati and Lyapunov equations: A survey and some new results, 12T346

KWON, YW: Recent Advances in Solids and Structures, PVP-Vol 321-NE-Vol 18 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N19
- Micromechanics model for damage and failure analyses of laminated fibrous composites, 2A676
- Dynamic FE analysis of laminated beams with delamination cracks using contact-impact conditions, 5A144

KWONG, RH: Generalized minimum variance adaptive control and parameter convergence for stochastic systems, 8T274

KWUN, H: Feasibility of under-lagging corrosion detection in steel pipe using the magnetostrictive sensor technique, 2A701
- Experimental observation of elastic-wave dispersion in bounded solids of various configurations, 7A190

KYBERD, PJ: Measurement system for the recognition of arm gestures using accelerometers, 2A1291

KYDONIEFS, AD: Finite deformations of elastic membranes, 4A554

KYNCL, J: Experimental investigation and performance analysis of six low flow coefficient centrifugal compressor stages, 5A1044

KYNIN, AT: Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, 6A1192

KYOUNG, WOO-MIN: Delamination buckling and growth of composite laminated plates with transverse shear deformation, 4A726

KYOYA, T: Developments of new technology in rock mechanics, from micro to macro - III: Applications to mechanical problems of rocks and rocks mass-micromechanics and homogenization method, 11T575

KYRIACOU, SK: Influence of size, shape, and properties on the mechanics of axisymmetric saccular aneurysms, 12A1466

KYRIAKIDES, NK: Boundary layer transition induced by a von Karman vortex street wake, 11A541

KYRIAKIDES, S: Circumferential stiffeners as buckle arrestors in long panels, 8A518
- Collapse of dented cylinders under external pressure, 8A503
- Performance of kinematic hardening rules in predicting a class of biaxial ratcheting histories, 8A428

KYRO, E: Influence of solar cosmic ray bursts on the temperature of the high-latitudinal atmosphere, 9A1403

KYTHE, PK: Introduction to Boundary Element Methods, 10R1
- Nonclassical thermal effects in Stokes' second problem, 3A897

KYUNG, ICK SOO: Periodic flow excursion in an open two-phase natural circulation loop, 11A1422

KYURA, N: Study on coupled torques in contouring control of articulated robot mechanism (Japanese), 9A456

KYUSOJIN, A: Development of an automatic scraping machine with recognition for bearing of scraped surfaces - 2nd Report: Development of a scraping motion mechanism (Japanese), 11A607
- Development of piezoelectric XYΓ positioning device using impulsive force (Japanese), 11A358

L

L'ANSON, R: Finite element analysis applied to radial aircraft tire engineering, 8A775

LA DUE, J: Cratering phenomena on aircraft anti-icing films, 7A1169

LA FIANZA, G: Climate effect on the evaluation of the heat transfer through the perimetral structures of refrigerating stores, 8A1207

LA MENDOLA, L: Stability of masonry walls subjected to seismic transverse forces, 3A1329

LA ROCHELLE, P: Yeilding and critical state of a collapsible unsaturated silty soil, 2A523

LA ROSA, G: Improvements in bio-mechanical adhesion of screws used in medical feild: First application in spinal surgery, 2A1315

LABBE, F: Calibration function for notched cylindrical tension specimens, based on the common format equation: Numerical and experimental data analysis, 12A781

LABBE, P: Finite pure bending of curved pipes, 12A593

LABEAS, GN: Static and stability analysis of composite plates by a semi-analytical method, 1A634

LABOUBE, R: Behavior of low-ductility steels in cold-formed steel connections, 9A935

LABOWSKI, M: Critical properties of acoustic wave absorption in the benzonitrile-isooctane system, 9A389
- Propagation of ultrasonic waves in condenser oil at presence of DC electric field, 9T259

LABRACHERIE, L: Shock-tube analysis of argon influence in titan radiative environment, 6A926

LABRECQUE, P: Experimental investigation of the vibroacoustic behavior of structures for validation purposes, 4A198

LABROPULU, F: Oblique flow impinging on a wall with suction or blowing, 9A1070

LACEY, AA: Bounds on solution of one-phase Stefan problems, 4A935
- Persistence of corners in free boundaries in Hele-Shaw flow, 4A941

LACH, J: Analysis of transport phenomena occurring in rectangular latent heat storage units - Part III: Description of the storage cycle, 9A1265

LACHOWICZ, M: Nonlinear kinetic equations with dissipative collisions, 2A916

LACIAK, M: Prediction of the minimum miscibility pressure of nitrogen-oil and lean gas-oil miscibility, 9A1412

LACKNER, KS: Modeling flows with curved detonation waves, 8A237

LACLAIR, T: Chebyshev series solution for radiative transport in a medium with a linearly anisotropic scattering phase function, 3A1130

LACROIX, M: Three-dimensional modeling of transient heat transfer in a soaking pit, 4A1216
- Transient natural convection from a finned surface for thermal storage in an enclosure, 6A1087
- Interaction of wall conduction with natural convection from heated cylinders in a rectangular enclosure, 6A1084
- Numerical study of natural convection dominated melting of a PCM with conjugate forced convection, 6A1072

LACY, BP: Dissociative cooling: Effect on stagnation heat transfer of gas mixture injection, 5A719

LACY, D: Performance evaluation of a generator-absorber heat-exchange heat pump, 11A1234

LADD, CC: Undrained multidirectional direct simple shear behavior of cohesive soil, 7A693
- Rate-dependent undrained shear behavior of saturated clay, 7A691

LADE, PV: One-dimensional compression of sands at high pressures, 7A697
- Undrained sand behavior in axisymmetric tests at high pressures, 7A694
- Drained sand behavior in axisymmetric tests at high pressures, 7A690
- Significance of particle crushing in granular materials, 9A657

LADEVEZE, P: Error estimation and adaptivity in elastoplasticity, 6A409
- Damage computational approach for composites: Basic aspects and micromechanical relations, 6A451
- Modular approach to structure assembly computations: Applications to contact problems, 9A939

LADIZESKY, NH: Review of plasma treatment and the clinical application of polyethylene fibers to reinforcement of acrylic resins, 3A1411

LADJINOVIC, D: Three dimensional analysis of tall buildings subjected to earthquake loading, 11T1410

LADLY, KO: Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363

LADNIK, IV: Method for characterization of machine-tools dynamic parameters for diagnostic purposes, 3A165

LADOMMATOS, N: Reduction of unburnt hydrocarbon emissions from spark ignition engines using in-cylinder catalysts, 10A1389

LAEVSKY, YM: Decomposition flame of hydrazine in inert porous media, 3A1231

LAFARGE, D: Measurement and prediction of the reflection coefficient of porous layers at oblique incidence and for inhomogeneous waves, 6A244

LAFFERTY, J: Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, 3A1076

LAFLEUR, AL: Biarene formation during pyrolysis of a mixture of anthracene and naphthalene, 7A1313

LAFON, A: Numerical investigation of supersonic vortical flow about a missile body, 5A902

LAFON, P: Certification of the composite outer wing of the ATR72, 6A1012

LAFORGIA, D: Diesel electro-injector: A numerical simulation code, 5A1072

LAFORTE, JL: Introductory analysis of boundary-layer development on de-anti-icing fluid, 7A1170

LAFRANCE, H: Method for the evaluation of tensile properties of skin equivalents, 1T1461

LAFRANCE, H: Study of the tensile properties of living skin equivalents, 6A1358

LAFRANCE, R: Wall temperature effects on the stability of laminar boundary layers, 2T953

LAFRENIERE, RA: Eigenvalue extraction for large FE models using a new conjugate gradient algorithm, 8A32

LAGAKOS, N: Fiber-embedded mandrel-stiffened planar acoustic sensor, 1A359

LAGASSE, RR: Rubbery cure shrinkage model for analyzing encapsulated assemblies, 3A449

LAGE, JL: Numerical simulation of supercritical Hadley circulation, within a porous layer, induced by inclined temperature gradients, 1A1198
- Generalization of the Forchheimer-extended Darcy flow model to the tensor permeability case via a variational principle, 2A1213
- Amplitude effect on convection induced by time-periodic horizontal heating, 7A1209

LAGE, PLC: Vaporization of diluting non-ideal binary droplets with radiation absorption, 3A1095

LAGIEWKA, E: Auger electron spectrometer SEA 02 in the study on NiTi alloy (Polish), 9A981

LAGO, V: Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, 1A1128

LAGOUDAS, DC: Modeling of thermoelectric heat transfer in shape memory alloy actuators: Transient and multiple cycle solutions, 4A518
- Modeling of oxidation in metal matrix composites, 4A1247
- Role of thermoelectric heat transfer in the design of SMA actuators: Theoretical modeling and experiment, 7A1239
- Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, 11A468

LAGZDINS, A: Alternative version of constructing limit surfaces for anisotropic solids, 2A401
- Tensorial representation of the orientation distribution function of internal structure elements for heterogeneous solids, 11A433

LAHA, K: Comparative study of tensile flow parameters in forged and rolled 9Cr-1Mo steel, 9A509

LAHANN, H-J: Orientation dependent tensile deformation behavior of two-phase laminate composites: Model analysis and FE results, 8A459

LAHAYE, J: Fluidized bed feeding of carbon black particles, 3A1222
- Influence of cerium oxide on the formation and oxidation of soot, 7A1318

LAHELLEC, A: Monte Carlo simulation of radiation in gases with a narrow-band model and a net-exchange formulation, 11A1213

LAHEY JR, RT: Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8, 9N22

LAHIRI, S: Evaluation of bimaterial stress intensity factors using a FE and BE alternating method, 6A639

LAHRMANN, A: Simulation and Design of Microsystems and Microstructures - Proc of 1st Int Conf, Southampton, UK, Sept 1995, 8N20

LAHTINEN, A: Choice of the initial value of a quadratic spline in positive interpolation, 12A60

LAHTINEN, H: Accuracy of composite shell elements in transient analysis involving multiple impacts, 9A208

LAI , YUANMING: Exact method for dynamic analysis of rectangular laminated orthotropic plates under heating load, 11A1251

LAI, C-H: Domain decomposition algorithm for viscous-inviscid coupling, 12A1055

LAI, CANHAI: Vortex lattice method for high-speed planing, 9A1221

LAI, FC: Natural convection in horizontal-layered porous annuli, 3T1074
- Oscillatory electrohydrodynamic gas flows, 5A983

LAI, J: Dynamic response of a near-critical polymer blend solution under oscillatory shear flow, 6A865

LAI, J-Y: Large amplitude vibration of plates according to a higher order deformation theory, 6A136

LAI, JIHN-SUNG: Flushing sediment through reservoirs (French), 12A1024

LAI, JIING-YIH: Minimum zone evaluation of circles and cylinders, 7A479

LAI, L: Processing monitoring of carbon-phenolic composites using smart sensors, 1A589

LAI, M-C: Flow distribution and pressure drop in diffuser-monolith flows, 5A1227

LAI, MING-JUN: Multi-level bases for elliptic boundary value problems, 12T63

LAI, ML: Seismic behavior of reinforced concrete frame with added viscoelastic dampers, 1A1397
- Seismic behavior of steel frame with added viscoelastic dampers, 2A1245
- Full-scale viscoelastically damped steel frame, 2A1254

LAI, S: Finite element formulation of a flexible slider crank mechanism using local coordinates, 5A10

LAI, TC: Parameter estimation of orthotropic plates by Bayesian sensitivity analysis, 7A163

LAI, TQ: Curvature sensing: A new concept in tracing technology, 6A375

LAI, WM: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371

LAI, YE-CHEN: Matrix profile and wavefront reduction based on the graph theory and wavefront minimization, 9A62

LAI, YEH-HUANG: Comparson of energy release rates in different membrane blister and peel tests, 11A842
LAI, YEH-HUNG: Cracked lap shear specimen revisited: A closed-form solution, 9A784
LAI, YUANMING: Geometrical nonlinear analysis of a simply supported truncated hip roof, 12A590
LAI, ZHIHONG: Shape and placement of piezoelectric sensors for panel flutter limit-cycle suppression, 9T652
LAIB, L: Analysis of the vibration-excitation effect caused by deformable soil surfaces, 8A771
LAIBLE, HA: Temporal evolution of under ice reflectivity, 7A332
LAINE, S: Conservative multiblock Navier-Stokes solver for arbitrarily deforming geometries, 5A905
LAING, C: Successive homoclinic tangencies to a limit cycle, 6A110
LAIRD II, G: Poisson's ratio and the interfacial behavior of composite materials, 4A521
- Micromechanics of a model heterogeneous material system under compressive loading, 5A675
LAJEUNESSE, G: Thermodynamic simulation and evaluation of a steam CHP plant using ASPEN plus, 6A1062
LAKE, GJ: Mechanics of rubber-to-metal bond failure, 5A650
LAKE, M: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252
LAKE, MS: Multicriterion preliminary design of a tetrahedral truss platform, 12A815
LAKER, J: Application of a strain gauge technique to the measurement of the power characteristics of five impellers, 5A1042
LAKES , RS: Composite materials which exhibit high stiffness and high viscoelastic damping, 2A440
LAKES, R: Torsional properties of single osteons, 2T12X8
LAKES, RS: Finite element analysis of Saint-Venant end effects in micropolar elastic solids, 1A562
LAKHAL, EK: Natural convection and conduction in massive wall solar collectors with honeycomb and without vents, 3A1370
LAKHTAKIA, A: Huygens principle for flow around an arbitrary body in a viscous incompressible fluid, 8A898
LAKIZA, VD: Study of dynamic characteristics of structural elements of composite materials of complex structural and shape (Russian), 7A583
- Experimental studies of dynamic behavior of gas liquid media in spherical shells under effect of vibration, 7A289
LAKKIS, I: Transient thermal performance of axially and radially diluted nuclear fuel cells, 1A1419
- Transient thermal performance of a radially diluted and centrally cooled nuclear fuel cell, 5A1151
LAKOTA, NA: Parametrically adaptive drives of mechanical system: Control over the angular velocity, 12T412
LAKSHMANAN, M: Lie symmetries and invariant solutions of the shallow-water equation, 11A188
LAKSHMI RAGHAVAN, S: Elastic properties of sodium borovanadate glasses, 8A396
LAKSHMIKANTHAM, V: Further improvement of generalized quasilinearization method, 11T66
- Methods of generalized quasilinearization for periodic boundary value problems, 11T67
LAKSHMINARAYANA, B: Fluid Dynamics and Heat Transfer of Turbomachinery, 12R38
- Measurement and analysis of static pressure field in a torque converter turbine, 5A1041
- Structure of tip clearance flow in axial flow compressors, 5A1062
- Computation of unsteady viscous flow through turbomachinery blade row due to upstream rotor wakes, 5A1053
- Numerical simulation of tip clearance effects in turbomachinery, 5A1074
- Computational modeling of 3D endwall flow through a turbine rotor cascade with strong secondary flows, 11A1071
LAKSHMISHA, KN: PDF modeling of autoignition in nonprimixed turbulent flows, 2A1178
LAL, GK: Steady-state plane-strain cold rolling of a strain-hardening material, 3A609
- Die design for axisymmetric extrusion, 7A719
- Upper-bound and FE analysis of axisymmetric hot extrusion, 10A699
LAL, MW: Numerical simulation of river ice processes, 1A1438
LALANDE, F: Impedance-based modeling of actuators bonded to shell structures, 7A423
LALLEMAND, A: Turbulent incompressible flow within a channel with transpiration - Solution of the coupled problem porous wall: Main flow, 10A1145
- Nachtsheim and Swigert method extended to the study of the 2D plane or axisymmetric, nonisothermal, laminar boundary-layer with blowing (French), 11A941
LALLEMENT, G: Properties of various residuals within updating of mathematical models, 1A211
- Updating linear elastic models with modal selective sensitivity, 1A845
- Iterative least-squares calculation for modal eigenvector sensitivity, 7A217
LALLI, F: Viscous-inviscid coupling in free surface ship flows, 3A899
LALONDE, S: Optimization of stresses in the end-fittings of composite insulators for distribution and transmission lines, 10A595
LALOR, MJ: Use of carrier frequency shifting for the elimination of phase discontinuities in Fourier transform profilometry, 2A52
- Applying backpropagation neural networks to fringe analysis, 3A726
LAM , F-PA: Geometric focusing of internal waves, 4A277
LAM , KY: Exact method for analyzing elastodynamic response of anisotropic laminates to line loads, 1A570
LAM, FK: Thyroid diagnosis by thermogram sequence analysis, 3A1415
LAM, HAN-FAI: Deformation behavior and microstructure evolution of high-strength alloy steel at high rate of strain, 12A520
LAM, KHIN YONG: Strip element method for characterization of flaws in sandwich plates, 3A745
LAM, KM: Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, 7A192
- Analytical determination of equivalent modal damping ratios of a composite tower in wind-induced vibrations, 8A142
LAM, KY: Analysis of rotating laminated cylindrical shells by different thin shell theories, 2A108
- Fracture process zone concept and delamination of composite laminates, 4A731
- Dugdale solution for cracks at the edge of an elliptical hole in an infinite and finite plate, 5A628
- Effects of boundary conditions on frequencies of a multi-layered cylindrical shell, 6A142
- Vibrations of rotating thin cylindrical panels, 6A145
- Strong interaction between a buoyancy bubble and a free surface, 7A1092
- Scattering of SH waves by flaws in sandwich plates and its use in flaw detection, 11A711
- Approximate yield criterion for voided nonlinear materials, 11A447
- Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, 12A262
- Detection of flaws in sandwich plates, 12A792
LAM, MJ: Methods of preserving symmetry in model updating, 5A113
LAM, SSE: Finite strip analysis of imperfect laminated plates under end shortening and normal pressure, 5A510
LAM, YC: Stress analysis of plates with bonded unbalanced laminates, 5A507
- Thermal analysis of the hot torsion test taking into account radiation, 7A34
LAMAN, M: Numerical studies of the moment carrying capacity of a short pier foundation in a clay soil, 12A654
LAMARCHE, L: Computer model of glaze accretion on wires, 11A1436
LAMARQUE, C-H: Nonlinear stability of a defective cylindrical shell, 8A499
- Analysis of nonlinear oscillations by wavelet transform: Lyapunov exponents, 9A149
- Analytical study of the bifurcations from an equilibrium point, 9T150
LAMB, D: Environment control of individual aqueous particles in a cubic electrodynamic levitation system, 11A1317
LAMB, J: Thermal stratification effects near a vertical ice slab in cold water, 1T1184
LAMB, JP: Aerodynamics of a body immersed in a supersonic wake: A computational study, 5A1007
LAMBADE, SD: Temperature dependence of the ultrasonic Grueneisen parameter and ultrasonic attenuation in pure germanium, 3A245
LAMBERT, C: Positively conservative high-resolution convection schemes for unstructured elements, 11A924
LAMBERT, H: Recursive construction of particular solutions to a system of coupled linear partial differential equations with polynomial source term, 12A83
LAMBERT, M: Born-type schemes for the acoustic probing of 1D fluid media from time-harmonic planar reflection coefficienis at two incidences, 6A258
LAMBERT, MA: Thermal conductivity of graphite-aluminum and graphite-copper composites, 11T1196
LAMBERT, PA: Constrained optimization of nacelle shapes in Euler flow using semianalytical sensitivity analysis, 6A964
LAMBERT, SB: Stress intensity factors and weight functions for longitudinal semi-elliptical surface cracks in thin pipes, 1A785
- Analysis of constraint in single edge notch tension specimens using the T-stress, 1A787
- Probabilistic model for initiation and propagation of surface cracks in welded joints, 1A772
- Local weight functions for semi-elliptical surface cracks in finite thickness plates, 2A614
LAMBERTI, A: Monitoring of biaxial tests of ceramic materials by digital speckle interferometry, 2A709
LAMBROS, J: Analysis of coherent gradient sensing by Fourier optics, 10T851
LAMFON, NJ: Modeling of waste heat recovery by looped water-in-steel heat pipes, 1A1284
LAMINE, E: Improved dynamic stiffness method and modal analysis for beam-like structures, 12A150
LAMNABHI-LAGARRIGUE, F: Adaptive control of nonlinear systems with nonlinear parameterization, 10T418
LAMONTIA, MA: Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, 8A1106
LAMOUREUX, P: Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, 5A1374
LAMOURI, S: General approach to discontinuous transfer films: The respective role of mechanical and physico-chemical interactions, 6A813
LAMPINEN, MJ: Numerical study of natural convection from a vertical surface due to combined buoyancies, 3A1193
LAMY, B: Tribological investigation of textile fabrics, 12A899
LAMZIN, AP: Study of brake blocks made of improved composite frictional materials, 5A819
LAN, CE: Calculated effect of freestream turbulence on aerodynamic characteristics of a delta wing, 2T1010
- Experimental and analytical investigation of transonic limit-cycle oscillations of a flaperon, 2A1014
- Determination of weighting matrices of a linear quadratic regulator, 4T349
LAN, CW: Numerical investigation of heat flow and interfaces in the vertical zone-melting crystal growth, 7A1225
- Finite volume method for solute segregation in directional solidification and comparison with a FEM, 12A1245
LAN, Q: Certain two-punch problems for an elastic layer, 11A424
LANCASTER, ER: Strain concentrations in pressurized dented pipes, 9A972
- Burst pressures of pipes containing dents and gouges, 9A971
LANCELLOTA, R: Geotechnical Engineering, 1R18
LANCIOTTI, A: Fatigue behavior of mechanically fastened joints in composite materials, 4A766
LANCZOS, C: Linear Differential Operators - Classics in Applied Mechanics, 18, 12N48
LANDA, M: Numerical modeling of acoustic emission signal propagation in a thin strip, 6A182
LANDA, PS: Synchronization and chaotization in interacting dynamic systems, 1A106
LANDAU, BV: Determination of the 50% probability zone for an acoustic source-locating system operating in the ground plane, 12A314
LANDEL, RF: Mechanical Properties of Polymers and Composites, Second Edition, Revised and Expanded - Mechanical Engineering Series, 90, 8N18
LANDERS, PH: Robust control of MIMO nonlinear systems with mismatched uncertainty, 2A273
LANDES, JD: Blunting line in elastic-plastic fracture, 5A626
LANDET, E: Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), 3A803
LANDJERIT, B: Experimental study of periacetabular deformations before and after implantation of hip prostheses, 6A1313
LANDL, C: Optimal strategies for the cooling of steel strips in hot strip mills, 8A561
LANDSBERG, A: Numerical simulations of flow modification of supersonic rectangular jets, 10A1163
LANE , D: Pressure drop and flow characteristics of wide-angle screened diffusers of large area ratio, 4T1043
LANE, SA: Time-averaged active controller for turbofan engine fan noise reduction, 11A259
LANEVILLE, A: Ovalling oscillations of cantilevered cylindrical shells in cross-flow: New experimental data, 3A217
LANG, J: Transient EHD connecting rod analysis: Full dynamic versus quasi-static deformation, 10A1220
LANG, SK: Transformer cooler performance: Analysis and experiment, 7A1266
LANGAT, JK: Mixing region of circular turbulent wall jets in cross flows, 2T964
LANGDON, SE: Thickness measurement of soft tissue biomaterials: A comparison of five methods, 10A1484
LANGDON, TG: Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide, 8A449
LANGE, CH: Load models for fatigue reliability from limited data, 7A1401
LANGE, H: Investigations on the influence of the addition of carbon dioxide on the production and properties of rapidly set wood-cement composites, 1A532
- Overview of Schrodinger-Poisson problems, 10A5
LANGE, M: Analysis and investigation of double-tee wooden girders (Polish), 6A472
- Experimental investigation of box-section floor elements (Polish), 10A910
LANGELAAN, HC: Relaxation of shear and normal stresses of nematic liquid crystalline polymers in squeezing and shear flows, 6A867
LANGERAK, A: Stability of river bifurcations in 1D morphodynamic models, 7T1050
LANGHORNE, PJ: Preliminary results from fatigue tests on in situ sea ice beams, 11A1442
LANGLET, P: Analysis of the propagation of plane acoustic waves in passive periodic materials using the FEM, 3A291
LANGLEY, RS: Mode localization up to high frequencies in coupled 1D subsystems, 1A201
- Power transmission in a 1D periodic structure subjected to single-point excitation, 1A186
- Application of level II reliability theory, 6A733
- Wave transmission through 1D near periodic structures: Optimum and random disorder, 6A183
- Effect of attachments on the natural frequencies of a membrane, 6T128
- Statistics of wave transmission through disordered periodic waveguides, 7A241
- Application of the dynamic stiffness technique to the in-plane vibrations of plate structures, 9A198
- Free vibration analysis of thin coplanar rectangular plate assemblies - Part II: Further results for generally orthotropic plates, 9A199
- Free vibration analysis of thin coplanar rectangular plate assemblies - Part I: Theory, and initial results for specially orthotropic plates, 9A18
- Free in-plane vibration of isotropic rectangular plates, 10T173
- Modal density of anisotropic structural components, 12A219
LANGRANA, NA: Proc of 1995 Bioengineering Conference, June 28 - July 2, 1995, Beaver Creek CO, 1N40
- Application scanning acoustic microscopy in a bone remodeling study, 5A1395
LANGRIDGE, D: Development of a photo-voltaic pumping system using a brushless DC motor and helical rotor pump, 8A1384
LANGSETH, JO: Implementation of a front tracking method for hyperbolic conservation laws, 12A255
LANGSETH, M: Cyclic stress-strain behavior of alloy AA6060 - Part I: Uniaxial experiments and modeling, 3A468
- Cyclic stress-strain behavior of alloy AA6060 T4 - Part II: Biaxial experiments and modeling, 3A469
LANGSTON , CA: SePmp phase in regional wave propagation, 11A1357
LANGSTON, CA: Anatomy of regional phases and source characterization of the Soviet joint verification experiment, underground nuclear expansion, 3A1272
- Array observations of the shear-coupled PL wave, 11A1384
LANGTON, M: Small and large deformation studies of protein gels, 4A907
LANIR, Y: Tethering affects the mechanics of coronary capillaries, 8A1428
- Plausibility of structural constitutive equations for swelling tissues: Implications of the C-N and S-E conditions, 9A6
- Optimal design of biaxial tests for structural material characterization of flat tissues, 9A1458
LANKFORD, J: Penetration erosion phenomenology, 10A280
LANSKY, IM: Ion-acoustic multisoliton in plasma with ion beams, 1A227
LANTEIGNE, J: Optimization of stresses in the end-fittings of composite insulators for distribution and transmission lines, 10A595
LANZKRON, PJ: Reduced order model of unsteady flows in turbomachinery, 5A1075
LAOR , K: Performance and optimum dimensions of different cooling fins with a temperature-dependent heat transfer coefficient, 8A1197
LAOWATTANA, S: Virtual wedging in 3D peg insertion tasks, 8A372
- Design of an orthogonal compliance for polygonal peg insertion, 8A368
LAPADATU, D: Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, 10T453
LAPETRA, C: Randomness of fatigue crack growth under constant-amplitude loads, 11A656
LAPHAM, ML: Melt rheology of zinc alkali phosphate glasses, 8A868
LAPICKI, A: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
LAPOINTE, S: Six-dof instrumented linkage for measuring the flexibility characteristics of the ankle joint complex, 12A1480
LAPOVOK, RY: Approach to preform design, 1A711
LAPRUS, W: Piezoelectric interfacial waves in langasite and dilithium tetraborate, 9A276
LAPUERTA, M: Study on independent effects of diesel engine operating conditions on nitric oxide formation and emissions through schematical combustion simulation, 7A1403
LAPUSTA, YN: Three-dimensional problem on stability of a number of fibers perpendicular to free matrix boundary, 7A648
LAPWORTH, BL: Mathematical modeling of brush seals, 6A1157
- Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, 11A1070
LARA, M: Numerical continuation of families of frozen orbits in the zonal problem of artificial satellite theory, 3A239

- Numerical continuation of families of periodic orbits in a parametric potential, 11T232
LARINI, M: Solid-propellant fire in an enclosure fitted with a ceiling safety-vent, 4A1262
LARMAN, KT: Orbital acceleration research experiment: Calibration measurements, 1A271
LARMER, F: Experimental characterization of dynamic micromechanical transducers, 10A457
LARMI, M: Torsional vibration analysis of internal combustion engine shafting system, 12A184
LARNER, K: Elimination of numerical dispersion in finite-difference modeling and migration by flux-corrected transport, 3A1289
LARONNE, JB: Prediction of bed-load transport by desert flash floods, 8A881
LAROSA, G: Thermal infrared analysis of plastics under monoaxial loads, 7A1043
LAROSILIERE, LM: Analysis of unsteady wave processes in a rotating channel, 2A182
LARRALDE, H: Three-dimensional stability analysis of planar straight cracks propagating quasistatically under type I loading, 2A667
LARRETEGUY, AE: Equal-order control-volume FEM for fluid flow in arbitrary triangulations, 5A889
LARROUTUROU, B: Analysis and compensation of numerical damping in a 1D aeroelastic problem, 11T227
LARSEN, GA: CMAC neural network control for high precision motion control in the presence of large friction, 5A340
LARSEN, JM: Influence of mode of initiation on the growth of small surface cracks in titanium aluminides, 8A586
LARSON, DS: Periodic response and stability of rigid mass resting on friction-damped SDOF oscillator, 3A172
LARSON, M: Modeling of mixing by turbulent jet in stably stratfied fluid, 6A971
LARSON, RG: Direct measurements of slip in sheared polymer solutions, 4A880
- Relative magnitudes of viscous, elastic, and texture stresses in liquid crystalline PBG solutions, 10A1041
LARSSON, M: Influence of machining defects and inclusions on the fatigue properties of a hardened spring steel, 3A651
LARSSON, P-L: Analysis of Berkovich indentation, 3A431
- Localization due to damage in two-direction fiber-reinforced composites, 12A549
LARSSON, R: Generalized fictitious crack model based on plastic localization and discontinous approximation, 2A632
- Study of lubricated impact using optical interferometry, 5A816
- Element-embedded localization band based on regularized displacement discontinuity, 10A759
LARUE, JC: Combustion enhancement using induced swirl, 5T1237
LASE, Y: Energy flow analysis of bars and beams: Theoretical formulations, 10A146
LASGORCEIX, P: Mass spectrometric and electrostatic probe measurements of N_2-O_2 plasma flow, 1A1128
LASHERAS, JC: Effect of vortex pairing on particle dispersion and kinetic energy transfer in a two-phase turbulent shear layer, 4A1003
LASHKOV, YA: Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, 10A1176
LASIC, V: Application of Alfrey's model for the stress-deformation analysis of locknit fabrics, 9A560
LASKAR, J: Stability of the planetary three-body problem - I: Expansion of the planetary Hamiltonian, 3A240
LASOWSKA, A: Effect of inertia on flows in tubes with periodic step changes in diameter, 9A1152
LASSER, R: Introduction to Fourier Series - Pure and Applied Mathematics Series, 199, 5N34
LASSUE, S: Superficial heat flux and temperature measurement on a wall (French), 11A1189
LATAILLADE, JL: Three-dimensional modeling of low velocity impact damage in composite laminates, 10A322
LATAWIEC, K: Mean-deviational versus incremental models in adaptive control, 1A385
LATH, D: Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface properties via electrical discharge, 6T789
LATHA, S: Comparative study of tensile flow parameters in forged and rolled 9Cr-1Mo steel, 9A509
LATHABAI, S: Microstructural influence in slurry erosion of ceramics, 4A685
LATHAM, DJ: Numerical simulation of a full scale fire test on a loaded steel framework, 5A720
LATIF, M: Frequency-wavenumber structure of the tropical ocean-atmosphere system, 4T1341
LATOKHIN, VY: Burnout heat transfer in steam-water mixtures in cylindrical and annular porous channels, 1A1248
LATOUR, M: Application of mechanical waves induced by piezofilms to marine fouling protection of oceanographic sensors, 2A1261
- Application of mechanical waves induced by piezofilms to marine fouling prevention, 9A980
LAU, ACW: Computational methodology to predict damage growth in unidirectional composites - I: Theoretical formulation and numerical implementation, 4A721
- Computational methodology to predict damage growth unidirectional composites - II: Case studies, 4A722
LAU, CL: J-integral solutions for shallow crack geometries under combined tension and bending, 11A669
LAU, J: Shock and vibration of solder bumped flip chip on organic coated copper boards, 12A986
LAU, JH: Murphy's integrated circuit yield integral, 3A422
LAU, KK: Impedance characteristics of hydraulic orifices, 6A336
LAU, MWS: Experimental motion analysis of radially rotating beams using high-speed camera and motion analyzer, 12A197
LAU, SC: Heat (mass) transfer in a serpentine channel with right-angled turns, 8T1072
LAU, SL: Internal resonance of an L-shaped beam with a limit stop - Part II: Forced vibration, 12A153
- Internal resonance of an L-shaped beam with a limit stop - Part I: Free vibration, 12A152
LAU, TL: Effect of surface characteristics of polymeric materials on the strength of bonded joints, 11A845
LAU, TS: Finite element mesh generation over analytical curved surfaces, 8A34
LAU, WS: Laser fantasy: From machining to welding, 12A689
LAUCHLE, GC: Laminar flow performance of a heated body in particle-laden water, 3A928
- Calculation of turbulent boundary layer wall pressure spectra, 3A255
LAUFER, E: Si-modified ZA alloy for journal bearing applications, 10A996
LAUFER, G: Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, 2A1189
- Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063
- Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, 8T1064
LAUFFER, JP: Natural excitation technique (NExT) for modal parameter extraction from operating structures, 4A146
LAUGER, J: Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, 4A913
LAUGIER, C: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292
LAUKE, B: Effective method for analyzing interference effect of arbitrary multiple defects, 9A847
LAULAGNET, B: Sound radiation from finite cylindrical shells, partially covered with longitudinal strips of compliant layer, 4A319
LAUNAY, B: Shear softening and thixotropic properties of wheat flour doughs in dynamic testing at high shear strain, 5A860
LAUNDER, BE: Developing buoyancy-modified turbulent flow in ducts rotating in orthogonal mode, 5A1141
- Computational fluid dynamics applied to internal gas-turbine blade cooling: A review, 6A1100
- Computation of flow development through stationary and rotating U-ducts of strong curvature, 8A894
- Development and application of a cubic eddy-viscosity model of turbulence, 11A1004
- Collaborative testing of turbulence models, 12A1154
LAUNIAINEN, J: Derivation of the relationship between the Obukhov stability parameter and the bulk Richardson number for flux-profile studies, 5A964
LAURA, PAA: Vibrations of non-uniform rings studied by means of the differential quadrature method, 1A147
- Vibrations of a rectangular plate of non-uniform thickness partially embedded in a Winkler modium, 2T107
- Lowest axisymmetric frequency of vibration of a circular plate partially embedded in a Winkler foundation, 2T103
- Selected and extended papers from the 4th Pan-American Congress of Applied Mechanics, January, 1995, Buenos Aires, Argentina, 2A4
- Numerical experiments on dynamic stiffening of a circular arch executing in-plane vibrations, 4T191
- Dynamic stiffening of orthogonal beam grillages, 4A789
- Longitudinal vibrations of a prismatic bar suddenly subjected to a tensile load at one end when the other is elastically restrained, 5T121
- First-mode approximations of mass and compliance of a circular plate elastically restrained against rotation along the edge, 7A175
- Vibrations and buckling of clamped plates of regular polygonal shape with rounded corners, 8A511
- Note on numerical experiments in transverse vibrations of annular circular plates, 9T202
- Non-harmonic Fourier expansions in the case of a cantilever beam with a mass-spring combination at the free end, 10T152
- Note on transverse, axisymmetric vibrations of annular plates of non-uniform thickness, 10T176
- Effect of Poisson's ratio on the fundamental frequency of transverse vibration and buckling load of circular plates with variable profile, 12A160
LAURE, SH: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024
LAURENT, C: Fiber optic strain gauge linearization, 1A849
LAURENT, D: Experimental temperature fronts for adsorptive heat pump applications, 8A1210
LAURENT, JP: Influence of water content and temperature on the thermal conductivity of autoclaved aerated concrete (French), 3A485
LAURENT, T: Lamb and shear-horizontal wave production by interdigital transducers deposited on both sides of a piezoelectric plate, 10A247
LAURIAT, G: Non-Darcian forced convection analysis in an annulus partially filled with a porous material, 5A1154
LAURIEN, E: Numerical investigation of laminar-turbulent transition on re-entry capsules, 12A867
LAURIENTE, M: Experimental validation of particle model drift theories, 10A945
LAURIKS, W: Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, 7A228
- Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attentuation measurements, 9A368
LAURSEN, TA: Augmented Lagrangian quasi-Newton solver for constrained nonlinear FE applications, 4A26
- Dynamics of a state variable frictional law in FE analysis, 11A29
LAUSTER, M: Conservation laws in nonlinear dissipative systems, 5A71
LAUTENSCHLAGER, U: Integrating robustness into multiobjective space vehicle design process, 3T315
- Experimental satellite trajectory analysis using decision-based robust design, 3A348
LAVERGNAT, J: Multiple Rayleigh scattering of electromagnetic waves: A partial summation, 8A524
LAVERNIA, EJ: Thermal residual stresses in metal matrix composites: A review, 2A1158
LAVILLE, F: Vibration and sound radiation of a cylindrical shell under a circumferentially moving load, 3A252
LAVINE, AS: Laminar, buoyancy induced flow structures in a bottom heated, aspect ratio 2 duct with throughflow, 3A1058
- Variable heat flux model of heat transfer in grinding with boiling, 11A1172
- Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, 11A1295
LAVOIE, JA: Evaluation of the energy absorption of laminated composite plates, 2A473
- Dynamic crush tests of energy-absorbing laminated composite plates, 11A490
LAVOIE, Y: Three-dimensional modeling of transient heat transfer in a soaking pit, 4A1216
LAVRENYUK, VI: Stress-strained state of viscoelastic half-plane with round inclusions, 9A500
LAW, AWK: Incipient fluidization of fine sands in deep seabed, 1A977
LAW, CK: Structural response of counterflow diffusion flames to strain rate variations, 1A1320
- Counterflow diffusion flames with unsteady strain rates, 3A1209
- Bimodal particle dispersion in the nonadiabatic heterogeneous SHS flame propagation, 3T1207
- Non-Huygens flame configuration in stagnation flow, 3A1211
- Ignition in nonpremixed counterflowing hydrogen versus heated air: Computational study with detailed chemistry, 7A1305
- Experimental study of ignition in nonpremixed counterflowing hydrogen versus heated air, 7A1317
- Flame-controlling continuation method for generating S-curve responses with detailed chemistry, 8A1248
- Further studies on effects of thermophoresis on seeding particles in LDV measurements of strained flames, 9A1335
- Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, 9A1331
- Stretch-affected flame propagation in vortical flows, 9A1314
- Detailed oxidation kinetics and flame inhibition effects of chloromethane, 10A1368
- Response of counterflow premixed flames to oscillating strain rates, 10A1370
- Scalar structure of nonequidiffusive premixed flames in counterflow, 12A1303
LAWLER, DF: Dynamics of deep-bed filtration: Velocity, depth and media, 6T1301
LAWLER, JV: Stability of molecular weight distributions as computed from the flow curves of polymer melts, 11A859
LAWLESS, PA: Bounded logarithm scale for particle count data, 9A1349
LAWLESS, S: Prediction of fatigue behavior in stress-concentrators of arbitrary geometry, 9A764
LAWN, BR: Damage-resistant alumina-based layer composites, 6A659
- Indentation stress-strain curves for "quasi-ductile" ceramics, 6A399
LAWNICZAK, M: Corrosion influence on exploitation load capacity of steel road bridges (Polish), 3A748
LAWRANCE, W: Development of a photo-voltaic pumping system using a brushless DC motor and helical rotor pump, 8A1384
LAWRENCE CUI, YINGQING: Dynamic matrix cracking in fiber reinforced ceramics, 4A491
LAWRENCE, AD: Amounts of NO_x and N_2O formed in a fluidized bed combustor during the burning of coal volatiles and also of char, 10A1366
- Effect of solid CaO on the production of NO_x and N_2O in fluidized bed combustors: Studies using pyridine as a prototypical nitrogeneous fuel, 11A1291
LAWRENCE, AJ: Auto-tuning of low-order controllers by direct manipulation of closed-loop time domain measures, 9A404
LAWRENCE, PS: Nonuniqueness of the MHD flow of a viscoelastic fluid past a stretching sheet, 3A981
- Effect of pressure gradient on MHD boundary layer over a flat plate, 5A978
LAWRENCE, SL: Computation of hypersonic flows with finite catalytic walls, 1A1016
LAWRENCE, W: Shock evolution after shaped charge jet impact and its relevance to explosive initiation, 1A217
LAWRENCE, WT: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
LAWSON, CL: Solving Least Squares Problems, 2N5
LAWSON, DA: Improved method for smoothing approximate exchange areas, 1T1269
LAWSON, L: Compton X-ray backscatter depth profilometry for aircraft corrosion inspection, 1A846
LAWSON, RJ: Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, 5A1286
LAWTHER, R: Calculation of eigenvectors with uniform accuracy, 1A125
LAWTON, EC: Iterative FE-BE algorithm, 9A61
LAWU, T: Ultrasonic scattering from a simulated cavity in steel, 3A277
- Fast converging binomial series for radiation field calculation, 3A299
LAY, T: Why the L_g phase does not traverse oceanic crust, 6A1237
- Variation of regional seismic discriminants with surface topographic roughness in the western US, 12A1393
- Seismic wave-field observations at a dense, small-aperture array located on a landslide in the Santa Cruz Mountains, California, 12A1385
LAYTON , JB: Satellite active and passive vibration control during liftoff, 12A415
LAYTON, W: Element separation property and parallel FEMs for the Navier-Stokes equation, 2A13
- Multilevel mesh independence principle for the Navier-Stokes equations, 7A1071
- A posteriori error estimators for a two-level FEM for the Navier-Stokes equations, 9A1091
LAZARENKO, GS: Wear behavior of natural rubber-containing nickel-alloy coatings, 6A808
LAZAREV, MP: Approximate solution of 1D piston problem, 2A186
LAZAROV, R: Domain decomposition algorithms for mixed methods for second-order elliptic problems, 9A56
LAZAROV, RD: Finite volume methods for convection-diffusion problems, 7A1301
LAZARZ, B: Diagnostics of high power toothed gears: A new proposal, 3A841
LAZIC, VB: Deflection of a composite beam-column: Cantilever beam-column, 12A613
LAZOPOULOS, KA: Beam buckling as a coexistence of phases phenomenon, 1A635
- Second order displacement fields of a thick elastic plate under thrust: The incompressible case, 4A549
- Constitutive branching in compressible elastic materials, 9A473
LAZZARIN, RM: New HVAC system based on cogeneration by an ic engine, 11A1233
- Comparison of heat recovery systems in public indoor swimming pools, 11A1227
LAZZERI, L: Fatigue behavior of mechanically fastened joints in composite materials, 4A766
LE BALLOIS, S: H_∞ control of an earth observation satellite, 11T328
LE FICHOUX, B: Dynamic modeling of a composite plate: A mixed numerical and experimental approach, 11A516
LE GAL, P: Statistics of temperature increments in fully developed turbulence - Part II: Experiments, 1A1089

LE GUENNEC, B: Modeling non-cohesive suspended sediment transport in 2D vertical free surface flows, 12T1025
LE MAREC, C: Collocation method for convective flow induced by directional solidification in a cylinder, 8A66
LE PALEC, G: Numerical study of the compressible turbulent flow in a laser cavity, 1A1193
LE PAPE, C: Disjunctive constraints for manufacturing scheduling: Principles and extensions, 12T473
LE QUERE, P: Direct numerical simulations of 2D chaotic natural convection in a differentially heated cavity of aspect ratio 4, 6A901
LE RAVALEC, M: Scales of rock permeability, 11A1324
LE RIBAULT, C: Introduction of turbulent model in a mixed finite volume and FEM, 2A15
LE TALLEC, P: Domain decomposition with nonmatching grids: Augmented Lagrangian approach, 3A70
LE, KC: Nonlinear continuum theory of dislocations, 7A499
LE, KE: Application of frequency domain adaptive infinite impulse response filtering for identification of flexible structure dynamics, 6A269
LE, LHT: Numerical seismograms obtained using ω-k integrals, for a point P source in a vertically inhomogeneous anelastic model, 12A1366
LEACH, JA: Limit systems, limit gains and non-generic behaviors arising in adaptive stabilizing control, 3A311
LEACH, P: Experimental verification of the generalized beam theory applied to interactive buckling problems, 7A652
- Material modeling for transient dynamic analysis of reinforced concrete structures, 12A843
LEAL, LG: Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics, 9N20
- Reptation model with segmental stretch - I: Basic equations and general properties, 2A838
- Reptation model with segmental stretch - II: Steady flow properties, 2A839
LEARY, PC: Reliable and economical high-temperature deep-borehole seismic recording, 11A1394
LEASE, KB: Corrosion fatigue of AZ91E-T6 cast magnesium alloy in a 3.5 percent NaCl aqueous environment, 5A608
LEBEAU, G: Scholte wave diffraction by a dihedral: Study at oblique incidence, 5A274
LEBEDEV, AV: Experimental study of local mass influence on sound radiation from a thin limited cylindrical shell, 12A285
LEBEDEV, LP: Functional Analysis: Applications in Mechanics and Inverse Problems - Solid Mechanics and Its Applications Series, Vol 41, 12R1
LEBEDEV, PA: Explicit determination of the position functions of complex mechanism links, 9A1021
LEBEDEV, VL: Mechanics of fatigue crack growth in a medium with micro-damage, 2A633
- Analytical model of fatigue crack growth retardation due to overloading, 7A856
LEBEDEV, VP: Heat transfer in a channel with a counter-current wall jet injection, 1A1180
LEBEDEVA, GG: Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, 6A1192
LEBEN, R: Qualitative features of high lift hovering dynamics and inertial manifolds, 8A1026
LEBER, H: Interlaminar shear behavior of plain-weave CRP at static and high rates of strain, 11A485
LEBLEBICIOGLU, K: Optimal control of gas pipelines via infinite-dimensional analysis, 10A413
LEBLOND, J-B: Improved Gurson-type model for hardenable ductile metals, 1A502
- Tensile tunnel-crack with a slightly wavy front, 9A833
LEBOEUF, RL: Vortical structure morphology in the initial region of a forced mixing layer: Roll-up and pairing, 11A991
LEBON, F: Two-grid method for regularized frictional elastostatics problems, 9A493
- Representation of plane elastostatics operators in Daubechies wavelets, 12A503
LEBON, G: Numerical simulations of interface viscosity effects on thermoconvective motion in 2D rectangular boxes, 1A1191
LEBOUCHE, M: Simultaneous concentration and velocity measurements using combined laser-induced fluorescence and laser Doppler velocimetry: Application to turbulent transport, 9A1201
- Thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct, 10A1267
LEBOVITZ, NR: Dynamic bifurcation in Hamiltonian systems with 1 dof, 1A95
LEBRUN, G: Laminate temperature distributions and filling time prediction during non-isothermal impregnation of fiber preforms, 2A555
- Experimental investigation of resin temperature and pressure during filling and curing in a flat steel RTM mold, 9A720
- Heat transfer analysis in a heated mold during the impregnation phase of the resin transfer molding process, 10A1269
LECKIE, F: Effect of fiber architecture on the mechanical properties of carbon-carbon fiber composites, 6A422
LECKIE, FA: Effect of geometry on the properties of a dense alumina-carbon and epoxy laminate, 1A812
- Strength of metal-matrix composite joints, 1A952
- Micro-mechanics and continuum damage mechanics, 2A675
- Mechanical behavior of an alumina carbon-epoxy laminate, 4A733
- Matrix cracking and debonding of ceramic-matrix composites, 6A449
- Localization due to damage in two-direction fiber-reinforced composites, 12A549
LECLAIRE, P: Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attentuation measurements, 9A368
LECLERC, M: Evaluation of earthquake ground motions to predict cracking response of gravity dams, 7A1377
LECLERCQ, S: General macroscopic description of the thermomechanical behavior of shape memory alloys, 12A4
LECORDIX, J-L: Constrained optimization of nacelle shapes in Euler flow using semianalytical sensitivity analysis, 6A964
LECSEK, RL: Probabilistic model for initiation and propagation of surface cracks in welded joints, 1A772
LEDBETTER, FE: Low velocity impact damage in filament-wound composite pressure bottles, 11A186
LEDBETTER, H: Estimation of the orientation distribution of short-fiber composites using ultrasonic velocities, 6A452
- Poisson's ratio of porous and microcracked solids: Theory and application to oxide superconductors, 8A398
LEDBETTER, RH: Seismic rehabilitation of earth dams, 6A544
LEDERICH, RJ: Cyclic fatigue and fracture behavior of a titanium alloy metal matrix composite, 2A576
LEDESMA , A: Estimation of parameters in geotechnical backanalysis - I: Maximum likelihood approach, 7A700
- Estimation of parameters in geotechnical backanalysis - Part II: Application to a tunnel excavation problem, 7A701
LEDESMA, A: Parameter and variance estimation in geotechnical backanalysis using prior information, 7A1368
LEDESMA, R: Augmented Lagrangian and mass-orthogonal projection methods for constrained multibody dynamics, 7A87
- Nonlinear viscoelastic bushing element in multibody dynamics, 10A118
LEDEZMA, G: Heat sinks with sloped plate fins in natural and forced convection, 8A1074
LEDEZMA, GA: Thermodynamic optimization of cooling techniques for electronic packages, 7A1278
LEDNIK, D: Transient energy flow between two coupled beams, 7A128
- Transient statistical energy analysis of an impulsively excited two oscillator system, 7A129
LEDWICH, G: Switching control strategy for the power system stabilization problem, 3A385
LEE , HP: Vibration and critical speeds of a spinning annular disk of varying thickness, 4A181
LEE , M: Model of spine, ribcage and pelvic responses to a specific lumbar manipulative force in relaxed subjects, 2A1292
LEE , SEN YUNG: Dynamic analysis of nonuniform beams with time-dependent elastic boundary conditions, 12A145
LEE , WAN-HOON: Transition membrane elements with drilling freedom for local mesh refinements, 8A48
LEE , YUNG-LI: Vehicle handling design process using DOE, 8A335
LEE, AN-CHEN: Joint displacement method for multiloop kinematic analysis, 6A359
LEE, AR: Theoretical investigation of sound transmission through periodic multilayer loss-free fluid media, 11A253
LEE, AW: New results on closed-loop stability in the presence of control saturation, 2A256
LEE, AYN: Residual strength of aluminum plate girders with scattered holes in the web panels, 7A968
LEE, B-C: Non-singular boundary integral equation for acoustic problems, 10A380
LEE, BC: Geometrically nonlinear and elastoplastic 3D shear flexible beam element of von-Mises-type hardening material, 7A42
- Prediction of mode parameters and moment-rotation curves for crushed thin-walled trapezoidal tubes in bending, 12A586
LEE, BEOM HEE: Dynamic control of a robot manipulator for high-performance conveyor tracking, 2A297
LEE, BH: Multiobjective design of actively controlled structures using a hybrid optimization method, 3A326
LEE, BHK: Correlation of F/A-18 buffeting from wind-tunnel and flight tests, 5A229
LEE, BJ: Observation of near-planar spinning premixed flames in a sudden expansion tube, 9A1312
LEE, BK: Closed-loop system identification using the dual Youla control parametrization, 3T314
LEE, BOM SON: Radar scatter cross sections for 2D random rough surfaces: Full wave solutions and comparisons with experiments, 8A178
- Transmission scatter cross sections across 2D random rough surfaces: Full wave solutions and comparison with numerical results, 8A180
LEE, BOO YOUN: Optimal positioning of heating lines in a compression molding die using the BEM, 3A639
LEE, BY: Monitoring of drill fracture from the current measurement of a three-phase induction motor, 10A999
LEE, BYOUNG KOO: In-plane free vibrations of catenary arches with unsymmetric axes, 8A133
LEE, BYUNG CHAI: Prediction of bending collapse behaviors of thin-walled open section beams, 10A626
LEE, C: Dynamic coupling index for underactuated manipulators, 2A298
LEE, C PANG: Local heat transfer in a rotating two-pass ribbed triangular duct with two model orientations, 5A1143
LEE, C-H: Investigation of hydraulic aperture at surface-exposed rock fractures in situ, 12T668
LEE, C-K: Differential laser interferometer for nanometer displacement measurements, 2A1067
LEE, C-T: Counteraction of periodic torques for rotating systems using centrifugally driven vibration absorbers, 10A235
LEE, C-W: Separation and identification of traveling wave modes in rotating disk via directional spectral analysis, 4A235
- Vibration analysis of shaft-bladed disk system by using substructure synthesis and assumed modes method, 7A208
- Dynamic analysis of flexible rotors subjected to torque and force, 10A226
LEE, CB: Study of the shock motion in a hypersonic shock system-turbulent boundary layer interaction, 1A1047
LEE, CF: Recent FE applications of the incremental endochronic plasticity, 4A15
- Simple endochronic transient creep model of metals with applications to variable temperature creep, 11A442
LEE, CH: Sufficient conditions for optimal control problems with time delay, 6A293
LEE, CHAE GUE: p-version FE approximations of stress intensity factors for cracked plates including shear deformation, 2A620
LEE, CHEO K: Computation of permeability and dispersivities of solute or heat in periodic porous media, 5A1307
LEE, CHI-YUAN: Novel design for constant-pressure water-displacement gas collector, 2T1282
LEE, CHIN-HAI: Nonlinear frequency and large amplitude of sandwich composites with embedded shape memory alloy, 4A194
LEE, CHING-CHIH: Finite Element study of bond-line-read-out, 4A495
LEE, CHUN SIK: Measurements and control of particle deposition velocity on a horizontal wafer with thermophoretic effect, 2A1207
LEE, CHUN-MO: Multivariable control of the J-85 turbojet engine for full flight envelope operation, 12A388
LEE, CHUN-YING: Finite element formulation of a sandwich beam with embedded electro-rheological fluids, 3A527
LEE, CHUNG-CHING: Simple stationary configurations of single-loop spatial N-revolute overconstrained linkages, 10A1030
LEE, CL: Experimental investigation of isolated and simultaneous internal resonances in suspended cables, 5A128
LEE, CP: Oscillatory soil response and liquefaction in an unsaturated layered seabed, 5A547
- Oscillations of liquid drops: Results from USML-1 experiments in Space, 8A932
LEE, CS: Cavitation dynamics of Medtronic Hall mechanical heart valve prosthesis: Fluid-squeezing effect, 9A1462
LEE, CY: Interlaminar shear stress analysis of composite laminate with layer reduction technique, 8A458
LEE, D: Heat transfer from a flat plate to a fully developed axisymmetric impinging jet, 3T1019
- Intimal thickening under shear in a carotid bifurcation: A numerical study, 6A1333
LEE, D-J: Numerical analysis of near and far fields scattered by two plates with finite thickness, 10A356
LEE, DAE-YOUNG: Heat transfer by oscillating flow in a circular pipe with a sinusoidal wall temperature distribution, 1A1179
LEE, DAEHEE: Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, 11A1205
LEE, DAI GIL: Experimental investigation of the dynamic characteristics of carbon fiber epoxy composite thin beams, 4A486
- Delamination-free and high efficiency drilling of carbon fiber reinforced plastics, 4A483
- Development of a fatigue failure model for the adhesively bonded tubular single lap joint under dynamic torsional loading, 11A844
LEE, DER CHINE: Drilling performance of new type twist drill, 9T707
LEE, DH: Flow and heat transfer measurements of a wall attaching offset jet, 12A1226
LEE, DONG NYUNG: Estimation of the magnetic pressure in tube expansion by electromagnetic forming, 12A635
LEE, DONG-MIN: Supersonic flutter analysis of stiffened isotropic and anisotropic panels, 8T229
LEE, DONYONG: Mobility analysis of spatial 4- and 5-link mechanisms of the RS class, 11A825
LEE, DOO-SUNG: Shrink fit of an elastic layer having a cylindrical cavity, 8A392
LEE, DUCK JOO: Optimized compact finite difference schemes with maximum resolution, 10A39
LEE, DUCK-JOO: Transparent acoustic source condition applied to the Euler equations, 2T238
LEE, E: Genetic algorithms in truss topological optimization, 1A871
LEE, EUN-SANG: Simulation of optimum control for electro-discharge dressing using neural networks, 4A659
LEE, GC: Procedure for time-domain seismic analyses of concrete dams, 7A1381
- Inelastic buckling of tapered members with accumulated strain, 8A498
LEE, GM: Simple criterion for establishing an upper limit to the harmonic excitation level of the Duffing oscillator using the Volterra series, 8A92
LEE, H-J: Computational simulation of matrix microslip bands in SiC-Ti-15 composite, 10A820
- Study on parameter optimization in the circumferential GTA welding of aluminum pipes using a semi-analytical FEM, 10A1037
LEE, HAEOK: Finite volume radiative heat transfer procedure for irregular geometries, 1A1274
LEE, HAI BANG: Biocompatibility of polysulfone - I: Surface modifications and characterizations, 6T1352
- Biocompatibility of polysulfone - II: Platelet adhesion and CHO cell growth, 6T1353
LEE, HAK-SUNG: Study on robustness of iterative learning control with non-zero initial error, 12A339
LEE, HAN-SEON: Revised rule for concept of strong column weak girder design, 10A1439
LEE, HEUNGSOON FELIX: Integrated design support method for flexible assembly systems, 7A474
LEE, HO SUNG: Hemispherical vapor bubble growth in microgravity: Experiments and model, 11A1163
- Spherical vapor bubble growth in uniformly superheated liquids, 11A1166
LEE, HO-JUN: Coupled layerwise analysis of thermopiezoelectric composite beams, 11A482
LEE, HP: Dynamic stability of a rod with an intermediate spring support subject to subtangential follower forces, 1A641
- Dynamic stability of a plate on multiple line and point supports subject to pulsating conservative in-plane loads, 1A670
- Effects of axial base excitations on the dynamic stability of spinning pre-twisted cantilever beams, 1A671
- Effects of initial curvature on the dynamic stability of a beam with tip mass subjected to axial pulsating loads, 1A672
- Damping effects on the dynamic stability of a beam on an elastic foundation, 2T504
- Dynamic behavior of a beam with an accelerating mass, 3A118
- Dynamic stability of spinning pre-twisted beams subject to axial pulsating loads, 4A184
- Dynamic stability of spinning beams of unsymmetrical cross-section with distinct end conditions, 7A642
- Dynamic stability of a tapered cantilever beam on an elastic foundation subjected to a follower force, 8A473
- Optimum design of cam mechanisms with oscillating flat-face followers, 8A835
- Dynamic response of a beam with a moving mass, 9T184
- Dynamic stability of a moving column subject to axial acceleration and force perturbations, 9A639
- Motions with minimal joint speeds and joint accelerations for redundant manipulators, 10A483
- Dynamic response of a beam on multiple supports with a moving mass, 11A104
- Effects of damping on the dynamic stability of a rod with an intermediate spring support subjected to follower forces, 11A553
- Transverse vibration of a plate moving over multiple point supports, 12A170
- Transverse vibration of a Timoshenko beam acted on by an accelerating mass, 12A155
- Damping effects on the dynamic stability of a rod subjected to intermediate follower loads, 12A629
LEE, HS: Nonlinear hydrodynamic stability of viscoelastic fluids heated from below, 3A960
- Monte Carlo solutions for radiative heat transfer in irregular 2D geometries, 3T1129
LEE, HUNG-JEN: Analysis of plastic instability during sandwich sheet rolling, 3A607
LEE, HWANG-JIN: Algorithm to identify the type of dof in kinematic chains, 9A134
LEE, HY: New weight function approach using indirect boundary integral method, 4A709

- New weight function approach using indirect boundary integral method, 9A801

LEE, HYUK: Error analysis of indirect force determination and a regularization method to reduce force determination error, 5A318

LEE, HYUN CHANG: Identification of stochastic system and controller via projection filters, 10A397

LEE, I: Aeroelastic analysis of a flexible airfoil with freeplay nonlinearity, 12A267

LEE, I-CHEOL: Experimental study on the growth of gravity currents (Japanese), 6A1242

LEE, I-W: Combination of the Lanczos algorithm with the substructure technique, 3A111

LEE, IK: Strain softening and shear band formation of sand in multi-axial testing, 9T661

LEE, IN: Static and dynamic analysis of composite box beams using large deflection theory, 1A592

- Aeroelastic analysis of a flexible control surface with structural nonlinearity, 1A1109
- Aeroelastic analysis of multibladed hingeless rotors in hover, 4A294
- Supersonic flutter analysis of stiffened isotropic and anisotropic panels, 8T229
- Flutter analysis for control surface of launch vehicle with dynamic stiffness, 12A265

LEE, IN-MO: Transient groundmotion in an elastic homogeneous halfspace to blasting loading, 9A254

- Prediction of pile bearing capacity using artificial neural networks, 10A673

LEE, IN-WON: Generalized Newton-Raphson method using curvature, 2A57

LEE, J: Improving the equivalent linearization technique for stochastic Duffing oscillators, 4T139

LEE, J-C: Finite element fracture reliability of stochastic structures, 8A624

LEE, JAE-KEUN: Comparative study of pressure reducers for aerosol sampling from high purity gases, 4A1282

LEE, JAEHONG: Postbuckling of laminated composites with delaminations, 3A636

- Buckling and postbuckling of circular plates containing concentric penny-shaped delaminations, 5A525

LEE, JAY: Machine performance monitoring and proactive maintenance in computer-integrated manufacturing: Review and perspective, 2A339

LEE, JC: Numerical simulation of laser ignition of an isolated carbon particle in quiescent environment, 11A1272

- Spherical acoustical holography of low-frequency noise sources, 12A318

LEE, JENG-JONG: Stationary waves on an inclined sheet of viscous fluid at high Reynolds and moderate Weber numbers, 7A1126

LEE, JEONG-HARK: Prediction of pile bearing capacity using artificial neural networks, 10A673

LEE, JG: Flame stretch measurements during the interaction of premixed flames and Karman vortex streets using PIV, 9A1333

LEE, JH: Transition from fast deflagration to detonation under the influence of periodic longitudinal perturbations, 3T209

- Heat transfer from a flat plate to a fully developed axisymmetric impinging jet, 3T1019
- Finite-element work-hardening plasticity model of the uniaxial compression and subsequent failure of porous cylinders including effects of void nucleation and growth - Part II: Localization and fracture criteria, 10A543
- Application of neural networks to flank wear prediction, 12A684

LEE, JHS: Two-dimensional autocorrelation function analysis of smoked foil patterns, 3A211

- Quenching distance of laminar flame in aluminum dust clouds, 9A1313

LEE, JHW: Turbulent line momentum puffs, 6A999

LEE, JIN W: Monte-Carlo simulation of turbulent deposition of charged particles in a plate-plate electrostatic precipitator, 12A1337

LEE, JINHO: Prediction of thermal stresses during vertical solidification of a pure metal with density change, 10A1337

- Hybrid numerical analysis of heat transfer and thermal stress in a solidifying body using FVM and FEM, 12A1289

LEE, JJ: Two-dimensional autocorrelation function analysis of smoked foil patterns, 3A211

- Kinematic analysis of a hybrid serial-and-parallel-driven redundant industrial manipulator, 4A398
- Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149

LEE, JJK: Pole tip recession: Investigation of factors affecting its measurement and its variation with contact start-stop and constant speed drag testing, 5A814

LEE, JK: Finite element viscoelastic analysis of temperature and moisture effects in electronic packaging, 3A516

LEE, JM: Vibration analysis of rectangular isotropic thick plates using Mindlin plate characteristic functions, 4A180

- Thickness measurement of soft tissue biomaterials: A comparison of five methods, 10A1484

LEE, JON: Chaos and direct numerical simulation in turbulence, 2A72

LEE, JONG S: Exact electroelastic analysis of piezoelectric laminae via state space approach, 6A509

LEE, JONG-SIK: Estimation of parameters of a non-stationary random process due to a moving source based on the covariance-equivalent model, 2A234

LEE, JONGKIL: Experimental modal analysis and vibration monitoring of cutting tool support structure, 2A138

LEE, JOON SIK: Transport Phenomena in Thermal Engineering - Proc of 6th Int Symp, Seoul, Korea, 9N29

- Parametric analysis of radiative-convective heat transfer around a circular cylinder in a cross flow using the finite volume radiation solution method, 7A1257

LEE, JOONKEUN: Dynamic continuum modeling of truss-type space structures using spectral elements, 12A863

LEE, JOSEPH HW: General integral formulation of turbulent buoyant jets in cross-flow, 6A976

LEE, JS: Dynamic stability of conducting beam-plates in transverse magnetic fields, 7A685

- Bulk flow pulsations and film cooling - II: Flow structure and film effectiveness, 11A1147
- Bulk flow pulsations and film cooling - I: Injectant behavior, 11A1146

LEE, JUN-HEE: Fabrication and mechanical properties of 2024 Al-SiC_p composites by mechanical alloying, 7A761

LEE, JUN-SHIN: Reactive characteristics of partial screens for a sound source mounted in an infinite baffle, 1A340

LEE, JUNG M: Pressure in a fluid-filled borehole caused by a seismic source in stratified media, 6A1253

LEE, JUNG-HWAN: Application of the modal integration method to flexible multibody systems, 8A93

LEE, JW: Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, 6A1362

LEE, JX: Vibration of rods with a concentrated mass in the presence of non-conservative forces, 3A125

LEE, JYH-CHIANG: Effects of stingers on receptance function measurements, 10A206

LEE, K: Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell FE model, 12A529

LEE, KC: Velocity characteristics of steady flow through a straight generic inlet port, 2A960

LEE, KD: Effects of sensitivity derivatives on aerodynamic design optimization, 9A1232

- Effects of implicit preconditioners on solution acceleration schemes in CFD, 11A873
- High-lift design optimization using Navier-Stokes equations, 11A1021

LEE, KEON-HEE: Embedding of Lipschitz stability in flows, 9T1170

LEE, KH: Buckling and vibration of multilayer orthotropic composite shells using a simple higher-order layerwise theory, 1A663

- Predictor-corrector zig-zag model for the bending of laminated composite plates, 5A394
- Parametric analysis of radiative-convective heat transfer around a circular cylinder in a cross flow using the finite volume radiation solution method, 7A1257

LEE, KI YONG: Heat release mechanisms in inhibited laminar counterflow flames, 7A1326

LEE, KL: Active-control and forced-vibration studies on highway bridge, 1A172

LEE, KOK-MENG: Design optimization of a three dof variable-reluctance spherical wrist motor, 5A358

- Dynamic modeling and control of a ball-joint-like variable-reluctance spherical motor, 9A440

LEE, KP: Aerothermal study of Mars Pathfinder aeroshell, 7A985

LEE, KUAN-TZONG: Transient conjugated mixed convection inside ducts with convection from the ambient, 7A1220

LEE, KWANG-HO: Dynamic stress intensity factors K_I, K_{II} and dynamic crack propagation characteristics of orthotropic material, 5A662

LEE, KWON-HEE: Robust design for unconstrained optimization problems using the Taguchi method, 10A1029

LEE, KYEONG: Structure of a swirl-stabilized spray flame relevant to gas turbine and furnaces, 4A1252

LEE, L: Coupled FEM-BEM formulation for acoustic radiation in a subsonic non-uniform flow, 10A1085

LEE, LH: Statistical model validation, 12A332

LEE, LI-WEI: Shaft behavior of BTA deep-hole drilling tool, 8A131

LEE, LJ: Study of fatigue damage and fatigue life of composite laminates, 8A587

- Bending and vibration analysis of composite sandwich plates, 11A133

LEE, LL: Computer-aided molecular design of fluids that optimize absorption cycle COP, 1A1287

LEE, LT: Equivalent systems for variable thickness circular plates, 5A503

LEE, MING-RAN: Dynamic analysis of a brushless dc motor using a modified harmonic balance method, 5A338

LEE, MMK: Development of an accurate model for the fatigue assessment of doubly curved cracks in tubular joints, 7A775

- Overlapped K joints in circular hollow sections under axial loading: An investigation of the factors affecting the static strength using numerical modeling, 8A770
- J-integral solutions for shallow crack geometries under combined tension and bending, 11A669

LEE, NAM-HO: Three-dimensional adaptive mesh refinement using variable-node solid transition elements, 10A26

LEE, ONE-CHUL: Creep phenomenon of simple composite structures, 4A448

LEE, PYC: Reordering the absorption coefficient within the wide band for predicting gaseous radiant exchange, 11A1209

LEE, RA: Comparison of measured and predicted lateral distribution of sonic boom overpressures from the US Air Force sonic boom database, 7A366

- Boom event analyzer recorder: Unmanned sonic boom monitor, 7A278
- Upwind unstructured scheme for 3D combusting flows, 11A1297

LEE, RONG-CHYANG: Sliding mode control design in multi-input perturbed discrete-time systems, 12T368

LEE, RONG-SHEAN: Evaluation of the perform design of a stepped forging part by coupled thermoviscoplastic FE analysis and viscoplasticity, 12A679

LEE, RONG-TSONG: Study on positioning accuracy of reciprocating friction drive system, 4A829

- Multilevel solution for thermal elastohydrodynamic lubrication of rolling-sliding circular contacts, 6T1049

LEE, RS: Algorithm for surface design and tool path generation in wire-cut electrical discharge machining, 2A561

LEE, S: Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, 4A734

LEE, S-H: Study of direct vs approximation methods in structural optimization, 2A733

LEE, S-WR: Apparent bending isotropy in clamped elliptic composite laminates, 1A551

LEE, SANBOH: Edge dislocation of constant velocity near a static internal crack, 1A792

- Elastic interaction between a moving screw dislocation and a surface crack, 8A387
- Screw dislocations near a crack penetrating through an interface, 12A758

LEE, SANG SOON: Boundary element analysis of viscoelastic solids under transient thermal state, 5A1197

LEE, SANG YONG: Periodic flow excursion in an open two-phase natural circulation loop, 11A1422

LEE, SANG-JO: Exploration of a mobile robot based on sonar probability mapping, 9A450

LEE, SANGSAN: Interaction of an isotropic field of acoustic waves with a shock wave, 4A282

LEE, SANN-CHIE: Influence of temperature on the drift of Gyroscope, 6A95

LEE, SB: Creep-fatigue crack growth behavior of 304 stainless steel at 650°C, 7A782

LEE, SC: Behavior of elastic-plastic rough surface contacts as affected by surface topography, load, and material hardness, 6A817

- Shear buckling coefficients of plate girder web panels, 9A629

LEE, SE: Mixed-interface substructures for dynamic analysis of flexible multibody systems, 11A78

LEE, SEN YUNG: Elastic instability of a beam resting on an elastic foundation subjected to a partially tangential force, 10A623

LEE, SEOK-SOON: Development of a new curved beam element with shear effect, 11A504

LEE, SEONG-CHEOL: Fourier series expansion method for free vibration analysis of either a partially liquid-filled or a partially liquid-surrounded circular cylindrical shell, 5A232

LEE, SEUNG R: Anisotropic hardening constitutive model based on generalized isotropic hardening rule for modeling clay behavior, 3A570

LEE, SEUNG-YOP: Vibration control of an axially moving string by boundary control, 9A193

LEE, SEUNGJAE: Eigenvector derivatives for mechanical second-order systems, 1A81

LEE, SH: Initial post-buckling behavior of a finite beam on an elastic foundation, 11A136

LEE, SH-K: Effects of streamwise convergence in radius on the laminar forced convection in axisymmetric ducts, 1A1176

- Effects of variable properties and viscous dissipation during optical fiber drawing, 11A1097

LEE, SHENG-LONG: Effects of beryllium on fatigue crack propagation of A357 alloys containing iron, 9A754

LEE, SHI-MIN: Segregated solution algorithm for incompressible flows in general co-ordinates, 9A1092

LEE, SHIH-WEN: Back-to-turn optimal guidance with linear exponential quadratic Gaussian performance criterion, 3A343

LEE, SHOUYAN: Biomechanical model for the myogenic response in the microcirculation - Part II: Experimental evaluation in rat cremaster muscle, 11A1451

- Biomechanical model for the myogenic response in the microcirculation - Part I: Formulation and initial testing, 11A1450

LEE, SHYH-SHIAW: Three-dimensional thermoelastic contact between two plates with bolted joints, 8A1227

LEE, SHYR WEN: Periodic solutions and stability of a nonlinear flexible slider crank mechanism by HBM-FFT, 6A89

- Nonlinear equation instability boundaries in flexible mechanisms, 6A87

LEE, SING-KWAN: Interactive RANS-Laplace method for nonlinear free surface flows, 7A275

LEE, SIU-CHUN: Scattering characteristics of fibrous media containing closely spaced parallel fibers, 1A1270

LEE, SJ: Heat transfer from a flat plate to a fully developed axisymmetric impinging jet, 3T1019

- Application of neural networks to flank wear prediction, 12A684

LEE, SL: Probablistic approach to fatigue life prediction of repaired reinforced concrete slabs, 3A780

- Dynamic response of elasto-plastic planar arches, 8A419

LEE, SOON-BOK: Fatigue strength and fracture mechanism of ceramic-metal joints under cyclic bending, 1A757

- Phenomenological model for intergranular failure by r-type and wedge-type cavitation, 5A607
- Thermal fatigue failure and design modification of a steam exhaust silencer, 6A1166
- Failure analysis and design modification of a briquetting machine roller, 6A610

LEE, SP: Temperature compensation of hot-wire anemometer with photoconductive cell, 3A1005

LEE, SU JEONG: Development of a fatigue failure model for the adhesively bonded tubular single lap joint under dynamic torsional loading, 11A844

LEE, SUNG HO: Estimation of the magnetic pressure in tube expansion by electromagnetic forming, 12A635

LEE, SUNG W: Efficient assumed strain element model with six dof per node for geometrically nonlinear shells, 5A519

LEE, SW: Numerical method for stability analysis of pinned flexible mechanisms, 11A555

LEE, SY: Elastic instability of beams subjected to a partially tangential force, 2A196

- Non-conservative instability of a Timoshenko beam subjected to a partially tangential follower force, 5A123
- Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, 8A23

LEE, T: Modeling and fuzzy logic control of an active reaction compensating platform system, 3A819

LEE, T-W: Flame curvature statistics in axisymmetric turbulent jet flames, 5A1218

- Flame stretch measurements during the interaction of premixed flames and Karman vortex streets using PIV, 9A1333

LEE, TH: Adaptive control of time-varying discrete-time systems: Stability and instability analysis for a first-order process, 8A292

LEE, TL: Transient 3D convection of air in a differentially heated rotating cubic cavity, 7A1221

LEE, TR: Role of human factors and safety culture in safety management, 2A1310

LEE, TS: Slope Stability and Stabilization Methods, 5R17

- Numerical studies on effect of check valve performance on pressure surges during pump trip in pumping systems with air entrainment, 1A1142
- Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, 12A1112

LEE, TZANN-SHIN: Robust H ∞ model reference tracking design for non-holonomic mechanical control systems, 8A288

LEE, USIK: Dynamic continuum modeling of truss-type space structures using spectral elements, 12A863

LEE, VW: Diffraction of SH-waves by subsurface inclusions of arbitrary shape, 7A243

LEE, WAN-HOON: Versatile variable-node flat-shell element, 10A37

LEE, WAN-IK: Robust design for unconstrained optimization problems using the Taguchi method, 10A1029

LEE, WB: Damage mechanics applied to elastic properties of polymers, 2A662

- Computer simulation of the effect of wall thickness on the metal flow in diecasting dies, 3A907
- Reclassification of the die-filling stages in pressure die-casting processes, 12A698

LEE, WENDY: Sedimentation and reuse of titanium dioxide: Application to suspended-photocatalyst reactors, 2T1283

LEE, WOEI-SHYAN: Deformation behavior and microstructure evolution of high-strength alloy steel at high rate of strain, 12A520

LEE, Y: Simulation of solar radiation heat flux data for energy calculation, 7A1397

- Effect of transverse convex curvature on heat transfer from heated cylinders with axisymmetric backward-facing steps, 8T1100
- Fully-developed laminar fluid flow and heat transfer in an eccentric annulus with an axially moving core, 8T1071

- Effects of surface tension and wire diameter on the rise velocity of a bubble in a miniature two-phase closed thermosyphon, 12A1235
LEE, YEONG JOO: Analysis of coherent gradient sensing by Fourier optics, 10T851
LEE, YIN-REN: Study of planar orbiting mechanism and its application to scroll fluid machinery, 11A1038
LEE, YOON-PYO: Effects of surface tension and wire diameter on the rise velocity of a bubble in a miniature two-phase closed thermosyphon, 12A1235
LEE, YOUNG-SHIN: Numerical and experimental study on the nonlinear behavior of laminated composite structural components, 2A475
LEE, YOUNG-SOO: Effects of surface tension and wire diameter on the rise velocity of a bubble in a miniature two-phase closed thermosyphon, 12A1235
LEE, YS: Strengthening caused by power law creep deformation of dispersed particles in an elastic matrix, 4A449
LEE, YT: Flow analyses in a single-stage propulsion pump, 11A1073
LEE, ZONG-SHIAW: Revisit to the modified multiple 1D adaptive grid method, 10A48
LEE-GLAUSER, GJ: Satellite active and passive vibration control during liftoff, 12A415
LEECH, CM: Cable geometry for a towed submersible, 2A458
- Two theorems on statical indeterminacy of structures, 6A710
LEEFE, SE: Review of the *in vitro* evaluation of conduit-mounted cardiac valve prostheses, 1A1475
- Conduit-mounted cardiac valve prostheses: A review of their uses, design, and in vivo performance, 11A1479
LEEK, TH: Examination of methods of assessing interacting surface cracks by comparison with experimental data, 12A711
LEENDERTZ, JS: Behavior of trough stiffener to crossbeam connections in orthotropic steel bridge decks, 7A964
LEES, WA: High Pressure Technology - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N22
LEET, SJ: Thermo-optical property degradation of irradiated spacecraft surfaces, 5A757
LEEVERS, PS: Impact fracture of polyethylene: A nonlinear-elastic thermal decohesion model, 4A706
- Impact and dynamic fracture of tough polymers by thermal decohesion in a Dugdale zone, 7A853
LEFEBVRE, AH: Role of fuel preparation in low-emission combustion, 5A1287
LEFEBVRE, G: Strain rate and preshear effects in cyclic resistance of soft clay, 6A528
LEFEVRE, J: Analysis of helicopter blade vortex structure by laser velocimetry, 12A1184
LEFF, LL: Symbolic math applications to constructive solid geometry and FE analysis, 8A38
LEFIK, M: FE model for 3D analysis of composite plates, 1A581
LEFRANCOIS, AC: Dynamic properties of a circuit breaker with friction-based seismic dampers, 11A1403
LEGENTILHOMME, P: Dynamics of electrodiffusion probes in developing annular flows, 6T1004
LEGER, A: Problems about elastic-plastic post-buckling, 8A501
LEGER, P: Fracture response of gravity dams due to rise of reservoir elevation, 1A914
- Evaluation of earthquake ground motions to predict cracking response of gravity dams, 7A1377
- Finite element analysis of concrete swelling due to alkali-aggregate reactions in dams, 12A851
LEGGATT, RH: Development and experimental validation of the deep hole method for residual stress measurement, 11A434
LEGGE, KA: Unified nonlinear elastic frame analysis, 11A815
LEGGOE, JW: Crack tip damage development and crack growth resistance in particulate reinforced metal matrix composites, 9A815
LEGNANI, G: Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, 11A74
- Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, 11A75
- Static calibration of industrial manipulators: Design of an optical instrumentation and application to SCARA robots, 11A395
LEGRAND, J: Dynamics of electrodiffusion probes in developing annular flows, 6T1004
LEGRAS, B: Large-scale Kolmogorov flow on the beta-plane and resonant wave interactions, 11A979
LEHNERT, B: Present state of fusion research, 3A983
LEHNHOFF, TF: Nonlinear effects on the stresses and deformations of bolted joints, 7A1027
- Nonlinear effects on the stiffness of bolted joints, 7A1026
LEHTIHET, EA: Modeling and performance characterization of vision-assisted robotic cell for printed circuit board assembly, 2A286
LEI, HIN-CHI: List of hodograph transformations exactly linearizable systems, 10A109
- Lie group and invariant solutions of the plane-strain equations of motion of a neo-Hookean solid, 12A479
LEI, M: Numerical investigation and prediction of atherogenic sites in branching arteries, 5A1393
- Focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries, 11A1464
LEI, SHENG-YUAN: Analysis of aerodynamic forces on a delta wing, 12A1168
LEI, TINGQUAN: Wear behavior of steel 1080 with different microstructures during dry sliding, 12A918
LEI, WEISHENG: Quantitative description of temperature- and strain rate-dependence of yield strength of structural steels, 8A431
- Physical nature of drop-weight-test NDT, 8A685
LEIBOVICH, E: Eccentric seismic pounding of symmetric buildings, 8A1339
LEIBOVICH, S: Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics, 9N20
LEIGH PHOENIX, S: Statistics for the strength and size effects of microcomposites with four carbon fibers in epoxy resin, 9A781
LEIGHTON, TG: High-resolution bubble sizing through detection of the subharmonic response with a two-frequency excitation technique, 9A1130
LEIJNSE, JNAL: Graphic analysis of the biomechanics of the massless bi-articular chain: Application to the proximal bi-articular chain of the human finger, 6A1324
LEIKO, AA: Operation of the system of two parallel multi-mode cylindrical piezo-transducers under nonstationary electrical excitation (Russian), 7A416
LEINER, W: Permanent 3D patterns in turbulent flows with essentially 2D wall configurations, 4A1145
LEINO, Y: Shell deformation states and the FEM: A benchmark study of cylindrical shells, 5A520
LEIRA, BJ: Evaluation of risk-type integrals by system reliability methods, 7A922
LEIS, DM: Medway: A high-efficiency combined cycle power plant design, 5A1283
LEISHMAN, JG: Rotor free-wake modeling using a pseudo-implicit technique including comparisons with experimental data, 1A1137
- Rotor free-wake modeling using a pseudoimplicit relaxation algorithm, 5A1069
- Angular response properties of retroreflective screen materials used in wide-field shadowgraphy, 7A1194
LEISNER, P: Cracking and spalling of multilayered chromium coatings, 3A668
LEISSA, AW: Accurate vibration frequencies of circular cylinders from 3D analysis, 3A114
- Comparisons of vibration frequencies for rods and beams from 1D and 3D analyses, 3A116
- Accurate vibration analysis of simply supported rhombic plates by considering stress singularities, 5A135
- Corner stress singularity effects on the vibration of rhombic plates with combinations of clamped and simply supported edges, 12A159
LEITSINA, VG: Spatial distribution of gas particles emerging from a nonisothermally heated cylindrical channel with heterogeneous processes on the surface, 6A1110
LEKAKH, BM: Enhancement of heat transfer in steam generating tubes, 1A1280
LEKAKIS, I: Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, 10A1146
LEKAKOU, C: Measurement techniques and effects on in-plane permeability of woven cloths in resin transfer molding, 9A723
LEKATOU, A: Elasticity and fracture in particulate composites with strong and degraded interfaces, 10A792
LEKSOVSKII, AM: Development of deformation process in carbon fiber reinforced plastics and metals on acoustic emission data, 1A586
LEKSOVSKY, AM: Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699
LELE, S: Analysis of flow instabilities and their role on critical heat flux for two-phase downflow and low pressure systems, 3A1081
LELE, SK: Interaction of an isotropic field of acoustic waves with a shock wave, 4A282
- Calculation of the radiated sound field using an open Kirchhoff surface, 10A373
LELLEP, J: Optimal design of axisymmetric plastic shallow shells of von Mises material, 2A467
- Optimization of plastic cylindrical shells with stepwise varying thickness in the case of von Mises material, 3A763
LEMAIRE, M: Linearized mechanical model to evaluate reliability of offshore structures, 3A815
LEMAITRE, F: Non-Newtonian cavitation analysis in journal bearings, 1A1149
LEMAITRE, J: Effect of geometry on the properties of a dense alumina-carbon and epoxy laminate, 1A812
- Mechanical behavior of an alumina carbon-epoxy laminate, 4A733
LEMAY, J: Experimental testing of diffusion models in a manipulated turbulent boundary layer, 2A939
LEMAY, MA: Restoration of pronosupination control by FNS in tetraplegia: Experimental and biomechanical evaluation of feasibility, 8A1423
LEMOINE, F: Efficient optical pressure measurement in compressible flows: Laser-induced iodine fluorescence, 1A1028
- Simultaneous concentration and velocity measurements using combined laser-induced fluorescence and laser Doppler velocimetry: Application to turbulent transport, 9A1201
LEMOS, LJL: Fast shearing of pre-existing shear zones in soil, 12A651
LEMPERT, WR: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
- Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, 8A1050
LENARCIC, J: Special issue on redundant robots, 12T447
LENCI, S: Bifurcation and chaos in a bilinear constrained column - Part I: Stability analysis and nonlinear unperturbed dynamics, 3A93
- Bifurcation and chaos in a bilinear constrained column - Part II: Chaotic dynamics, 3A94
LENERTZ, J: Transpiration cooling effects on nozzle heat transfer and performance, 5A947
LENESCHMIDT, J: Nonlinear viscoelasticity and the thrombelastograph- I: Studies on bovine plasma clots, 6A1334
LENFERINK, HWJ: Multilevel mesh independence principle for the Navier-Stokes equations, 7A1071
LENG, J: Influence of fuel composition on emissions of CO, NO, and NO_2 from a gas-fired pulsed combustor, 9A1323
LENG, JS: Active vibration control of smart composites featuring electro-rheological fluids, 2A118
LENG, Y: Elevated temperature fracture particulate-reinforced aluminum - Part II: Micromechanical modeling, 2A411
LENGELLE, G: Modeling of normal and erosive burning rate of a hot double-base homogeneous propellant, 9A1325
LENGNICK, M: Unified approach to the description of phase transitions and strain localization, 9A1284
LENGOC, L: Wide bandsaw blade under cutting conditions - Part I: Vibration of a plate moving in its plane while subjected to tangential edge loading, 2A135
- Wide bandsaw blade under cutting conditions - Part II: Stability of a plate moving in its plane while subjected to parametric excitation, 2A136
- Wide bandsaw blade under cutting conditions - Part III: Stability of a plate moving in its plane while subjected to non-conservative cutting forces, 2A137
- Transverse vibration of a moving string: A comparison between the closed-form solution and the normal-mode solution, 10A168
- Transverse vibration of a moving string: A physical overview, 10A167
LENGRAND, JC: Rarefied gas flow simulation based on quasigasdynamic equations, 4A1001
LENGSFELD, M: Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, 6A1317
LENK, A: Acoustic absorption in ducts with an actively controlled wall admittance (German), 2A212
LENNEVI, J: Application and implementation of LQ design method for the velocity control of hydrostatic transmissions, 6A324
LENNON, GP: Head requirement for incipient fluidization of fine sands in unbounded domains, 3A926
LENSEL-CORBEIL, G: Musculo-articular modeling of the triceps brachii, 6A1320
LENTINI, D: Stretched laminar flamelet modeling of turbulent chloromethane-air nonpremixed jet flames, 5A1221
LEO, DJ: Experimentally-validated damage detection theory in smart structures, 10A884
LEO, PH: Overall elastic energy of polycrystalline martensitic solids, 12A481
LEON, JC: New approach to free-form surface mesh control in a CAD environment, 2A831
- Structural shape optimization of parts bounded by free-form surfaces, 12A832
LEON, RT: Seismic behavior of older steel structures, 10A1432
LEON-SALAMANCA, T: Residual stress measurement in steel plates and welds using critically refracted longitudinal (L_{CR}) waves, 10T871
LEONARD, A: High-resolution simulations of the flow around an impulsively started cylinder using vortex methods, 1A1001
LEONARD, BP: Order of accuracy of QUICK and related convection-diffusion schemes, 3A41
LEONARD, JH: Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
LEONARD, R: Development of an integrated cost estimation system, 10T510
LEONARD, RS: Synthetic fuels, and a sustainable set of civilizations, 8A1392
LEONARD, T: Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion, 8A1425
LEONARD, TR: Evaluation of the implantable force transducer for chronic tendon-force recordings, 6A1364
- Soleus forces and soleus force potential during unrestrained cat locomotion, 6A1329
- Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion, 8A1424
LEONDES, CT: Digital Control Systems Implementation Techniques - Control and Dynamic Systems: Advances in Theory and Applications, Vol 70, 3N14
- Digital Control Systems Implementation and Computational Techniques - Control and Dynamic Systems: Advances in Theory and Applications, Vol 79, 11N22
LEONG, KENG H: Design and test of a polar nephelometer, 2A1206
LEONI, G: Modified age adjusted effective modulus method for composite beams with post-connected slab, 3A778
- Algebraic methods for creep analysis of continuous composite beams, 10A750
LEONOV, AI: Rheological modeling of viscoelastic polymer liquids with stable constitutive equations, 1A969
- Rheological modeling of filled polymers with particle-matrix interactions, 2A847
LEONOV, GA: Frequency-Domain Methods for Nonlinear Analysis: Theory and Applications - Nonlinear Science: Series A, Vol 9, 11N14
LEONOWICZ, M: Processing-property-microstructure relations in Fe-M-Nd-C (M = Cu, Ga, Nb, Al) based ingot magnets, 9T655
LEONTEV, SN: Study of crack appearances in porous media combustion, 3A1267
LEONTIEV, AI: New instrument for radiation heat flux measurement: Analysis and parameter selection, 2A1138
LEOPOLD, F: Validation of a Navier-Stokes solution algorithm with experimental values in a supersonic wake, 6A922
LEORAT, J: Instability of a rotating shear layer in the transonic regime, 7A1077
LEOTTA, DF: Skin response to mechanical stress - Adaptation rather than breakdown: A review of the literature, 4A1364
LEOU, JIN-JANG: Representation and matching of feature patterns for robot operation monitoring, 4A408
LEOUTSAKOS, G: Arbitrary blade section design based on viscous considerations: Background information, 12A1179
LEPANTO, JA: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395
LEPIK, U: Axisymmetric vibrations of elastic-plastic cylindrical shells by Galerkin's method, 10A181
LEPORCQ, B: Efficient optical pressure measurement in compressible flows: Laser-induced iodine fluorescence, 1A1028
LEPPINGTON, FG: Interaction between sound and circulatory fluid motion as a problem in matched expansions, 3A248
- Sound field generated by a pair of circular cylinders moving in unsteady rectilinear motion, 3A251
- Sound field due to a periodic array of forced wave-bearing strips, 6T233
LERCH, BA: Response of SiC-Ti under combined loading - Part III: Microstructural evaluation, 8A658
LERCH, P: Modelization and characterization of asymmetrical thermal micro-actuators, 10T464
LERMAN, LB: Determination of dynamic reactions in elastic deformable systems with intermediate supports under impulse loading (Russian), 7A248
LEROUEIL, S: Yeilding and critical state of a collapsible unsaturated silty soil, 2A523
LEROUX, AY: Well-balanced scheme for the numerical processing of source terms in hyperbolic equations, 7A277
LEROY, F: Relationship between inclusionary deposits and the wear of cutting tools, 6A800
LEROY, M: Dynamic compaction of calcium phosphate biomaterials, 3A1410
LEROY, O: Inhomogeneous plane-wave scattering and mode simulation on periodic rough surfaces, 10A252
- Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, 11T252
LESCHZINER, M: Pressure-correction method for the solution of incompressible viscous flows on unstructured grids, 9A1071
LESCHZINER, MA: Computational modeling of 3D impinging jets with and without cross-flow using second-moment closure, 2A963
- Second-moment closure for 3D turbulent flow around and within complex geometries, 9A1198
LESIEUR, M: Coherent vortices in thermally stratified and rotating turbulence, 5A1137
- Large-eddy simulation of a spatially growing boundary layer over an adiabatic flat plate at low Mach number, 5A927

- New trends in large-eddy simulations of turbulence, 6A997

LESIEUTRE, G: Fiber contribution of modal damping of polymer matrix composite panels, 5A480

LESIEUTRE, GA: Finite element modeling of frequency-dependent and temperature-dependent dynamic behavior of viscoelastic materials in simple shear, 4A8
- Time domain modeling of linear viscoelasticity using anelastic displacement fields, 5A454
- Finite element modeling of 1D viscoelastic structures using anelastic displacement fields, 11A9
- Iterative calculation of the transverse shear distribution in laminated composite beams, 11T486

LESKO, JJ: Characterization of the fiber-matrix interphase and its influence on mechanical properties of unidirectional composites, 8A448
- Evaluation of chemical aging-oxidation in high-performance composites using the Vickers microindentation technique, 8A472

LESNE, P-M: Combined effects of the fiber distribution and of the fiber matrix of interphase matrix transverse modulus ratio on the possible fracture modes of unidirectional composites submitted to a transverse loading, 4A720

LESNIC, D: Conjugate free convection from a horizontal surface in a porous medium; 2A1090
- Treatment of singularities in time-dependent problems using the BEM, 5A50
- Application of the BEM to inverse heat conduction problems, 7A1240

LESNYAK, AN: Theoretical-experimental method for determining the stiffness and dissipative characteristics of elastodamping elements in the frequency domain, 10A137

LESOINNE, M: Analysis and compensation of numerical damping in a 1D aeroelastic problem, 11T227

LESSARD, LB: Testing of in-plane shear properties under fatigue loading, 2A456
- Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate, 9A546
- Effects of material nonlinearity on the 3D stress state of pin-loaded composite laminates, 11A484

LESSELIER, D: Born-type schemes for the acoustic probing of 1D fluid media from time-harmonic planar reflection coefficients at two incidences, 6A258

LESSER, MB: Generation and convergence of polygonal-shaped shock waves, 8A210

LESSMOELMAN, C: Simulation and Design of Microsystems and Microstructures - Proc of 1st Int Conf, Southampton, UK, Sept 1995, 8N20

LESTER, PF: Wingrove parameter: A new turbulence metric, 9A1199

LESZCZYNSKI, M: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704
- Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283

LETA, DP: Friction and elasticity on a molecular scale, 4T827

LETALLEC, P: Nonlinear Boltzmann equation solutions and applications to fluid dynamics, 2A915

LETCHER, SV: Fiber-optic microphone based on a combination of Fabry-Perot interferometry and intensity modulation, 1A360

LETELIER S, MF: Laminar fluid transients in conduits of arbitrary cross section, 2A1305

LEU, DAW-KEWI: Finite-element simulation of the bending process of steel-polymer-steel laminate sheets, 3A16

LEU, DAW-KWEI: Elasto-plastic FE simulation of successive UO-bending processes of sheet metal, 3A14
- Finite-element simulation of hole-flanging process of circular sheets of anisotropic materials, 12A11

LEU, YIH-REN: Tensile bond strength of deformed bars of high-strength concrete, 7A943

LEU, YONGHOU: Design of crank-rocker mechanisms with optimum transmission angle over working stroke, 9A1020

LEUNG, ACK: Development of an integrated cost estimation system, 10T510

LEUNG, AYT: Symplectic integration and nonlinear dynamic symmetry breaking of frames, 3A147
- Global bifurcation of a three-hinged rod subject to a kind of follower force, 4A582
- Toeplitz Jacobian matrix for nonlinear periodic vibration, 5A98
- Fractal two-level FE analysis of cracked Reissner's plate, 7A21
- Equivalent modal damping ratios of a composite tube-type tall building to dynamic wind loading, 7A192
- Analytical determination of equivalent modal damping ratios of a composite tower in wind-induced vibrations, 8A142
- Dynamic stiffness analysis of laminated composite plates, 9A593
- Accuracy of discontinuous Galerkin methods in the time domain, 10A200
- Order of the singular stress fields of through-thickness cracks, 10A831
- Analytical solution for mode I crack orthogonal to free surface, 12A770
- Fractal two-level FEM for cracked Kirchhoff's plates using DKT elements, 12A737

LEUNG, CKY: Crack-bridging force in random ductile fiber brittle matrix composites, 6A657
- Design criteria for pseudoductile fiber-reinforced composites, 6A445

LEUNG, JOSEPH C: Application of the method of Landau and Lifshitz to sonic velocities in homogeneous two-phase mixtures, 9A1123

LEUNG, PC: Fluid conductance of cancellous bone graft as a predictor for graft-host interface healing, 6A1314

LEUNG, RCK: Interaction of flow structures within bistable flow behind two circular cylinders of different diameters, 6A972
- Vortex pairing as a model for jet noise generation, 9A346

LEUNG, TP: Semi-analytical study of free vibration of composite shells of revolution based on the Reissner-Mindlin assumption, 5A137
- Theoretical and experimental study of modal strain analysis, 9A212
- Free vibration of simply-supported beam partially loaded with distributed mass, 10T147

LEURIDAN, J: High resolution order tracking at extreme slew rates using Kalman tracking filters, 3A372

LEUTHEUSSER, HJ: Laminar fluid transients in conduits of arbitrary cross section, 2A1305

LEVCHENKO VV: Magnetostructural shear waves in ferrite-dielectric layer (Russian), 3A183

LEVCHENKO, VV: Magnetoelastic volume shift waves in periodically-laminar medium of the type ferrite-metal-dielectric (Russian), 7A682

LEVDANSKY, VV: Spatial distribution of gas particles emerging from a nonisothermally heated cylindrical channel with heterogeneous processes on the surface, 6A1110

LEVEL, P: Considerations on modal reanalysis of nonconservative dynamics systems by the generalized receptance method, 2A776
- Extension of classical modal reanalysis algorithms: The improvement of initial models, 3A112
- Implementation of a modal reanalysis method in a FE analysis context, 4A33
- Direct inversion of the impedance matrix in response reanalysis, 9A243
- Impact on planar kinematic chain of rigid bodies: Application to movements of anthropomorphic dummy in a crash, 10A82

LEVENDIS, Y: Measurements of particle flame temperatures using three-color optical pyrometry, 8A1283

LEVENSON, M: Clementine attitude determination and control system, 5A740
- Attitude determination and control of Clementine during Lunar mapping, 11A356

LEVENSPIEL, O: Understanding Engineering Thermo, 10R33

LEVENSTAM, M: Hydrodynamical instabilities of thermocapillary flow in a half-zone, 2A887

LEVEQUE, RJ: High-resolution conservative algorithms for advection in incompressible flow, 10A1354

LEVERMORE, CD: Convergence of convective-diffusive lattice Boltzmann methods, 2A919

LEVESQUE, B: Stochastic dynamical modeling of an open-chain manipulator in a fluid environment, 11A386

LEVI, CG: Strength of metal-matrix composite joints, 1A952

LEVI, R: Effects of threshold singularities on a dynamical system with intermittent contact and breakage, 2A82

LEVIN , AA: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423

LEVIN, DA: Comparison of theory with atomic oxygen radiance data from a rocket flight, 3A992
- Examination of OH ultraviolet radiation from shock-heated air, 10A1306

LEVIN, VM: Elastic and thermoelastic properties of composites reinforced with short axisymmetric fibers, 1A538

LEVINE, H: Unsteady diffusion and absorption problems, 10A1349

LEVINE, RA: Model based on dimensional analysis for non-invasive quantification of valvular regurgitation under confined and impinging conditions, 6T1348
- How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, 12A1474

LEVINE, WS: Control Handbook - Electrical Engineering Handbook Series, 6N12

LEVINE-WEST, M: Mode shape expansion techniques for prediction: Experimental evaluation, 9A245

LEVINSKAS, R: Creep simulation of polymer matrix-dispersed filler composites (Russian), 8A409

LEVINSON, SF: Sonoelastic determination of human skeletal muscle elasticity, 1A1447

LEVINSON, SJ: Pade approach for eigenvalue identification in underwater acoustic normal mode computations, 7A363

LEVITAS, VI: Finite element procedure for solving contact thermoelastoplastic problems at large strains, normal, and high pressures, 4A1231
- Unified approach to the description of phase transitions and strain localization, 9A1284

LEVITSKII, SP: Special features of boiling of macromolecular polymer solutions, 5A1125

LEVITSKIY, SP: Growth of vapor bubbles in boiling polymer solutions - I: Rheological and diffusional effects, 4A1177
- Growth of vapor bubbles in boiling polymer solutions - II: Nucleate boiling heat transfer, 4A1178

LEVITSKY, VP: Interaction of a rigid cylinder with elastic half-space under heat formation on the contact area, 7T507

LEVITT, JA: On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, 11A343
- On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, 11A342

LEVY, A: Head-on interaction of planar shock waves with ideal rigid open-cell porous materials: Analytical model, 1A239
- Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, 5A1305
- Evolution of the balance equations in saturated thermoelastic porous media following abrupt simultaneous changes in pressure and temperature, 5A1296
- Simple waves in saturated porous media - I: The isothermal case, 11A920

LEVY, AJ: Effective dilatational response of fiber-reinforced composites with nonlinear interface, 12A541

LEVY, N: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203

LEVY, Y: Systematic study of the correlation between geometrical disturbances and flow asymmetries, 9A1105

LEVYTSKYI, VP: Plane contact problem with heat generation account of friction, 5A794

LEW, JIANN-SHIUN: Using transfer function parameter changes for damage detection of structures, 4A815

LEWANDOWSKA, J: Non-Gaussian diffusion modeling in composite porous media by homogenization: Tail effect, 4A1295

LEWANDOWSKI, A: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
- Modeling dynamic phenomena occurring in hydraulic servomotors with hydrostatic bearings, 9A218

LEWICKI, P: Beyond effective medium theory: Pulse stabilization for multimode wave propagation in high-contrast layered media, 7A232

LEWIN, PA: Enhanced bandwidth multilayer transducers for imaging applications, 1A358

LEWINSKI, J: Predicting the properties of unidirectional fibrous composites with monotropic reinforcement, 5A469

LEWINSKI, P: Effect of restraint of walls on deformation of cylindrical tanks (Polish), 6A780

LEWINSKI, T: Effective stiffnesses of transversely nonhomogeneous plates with unidirectional periodic structure, 1A615
- Stiffness loss in laminates with intralaminar cracks - Part I: 2D modeling, 9A544
- Stiffness loss in laminates with intralaminar cracks - Part II: Periodic distribution of cracks and homogenization, 9A545
- Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, 10A579
- Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, 10A578

LEWIS, AD: Variational principles for constrained systems: Theory and experiment, 5A66

LEWIS, C: Development of an aviation fuel thermal stability test unit, 5A1243

LEWIS, CA: Weibull modeling of particle cracking in metal matrix composites, 2A606

LEWIS, DB: Reliability-based casing design, 1A948

LEWIS, EQ: Experimental strain analysis of the iosipescu shear test specimen, 5A489

LEWIS, FL: Optimal Control, Second Edition, 6R10
- Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, 11A355

LEWIS, G: Parametric stress analysis of bonded "combination-materials" type of orthodontic brackets, 11T1481
- Effect of debonding forces on bonded orthodontic brackets: FE study, 11A1480

LEWIS, JL: Determination of spinal facet joint loads from extra-articular strains: A theoretical validation, 10A1463

LEWIS, MJ: Stability derivatives for a hypersonic caret-wing waverider, 1A1122
- Wedge-cone waverider configuration for engine-airframe integration, 2T1031
- Unsteady characteristics of a hypersonic type IV shock interaction, 5A901
- Computational analysis of the unsteady type IV shock interaction of blunt body flows, 6A200

LEWIS, PA: Theory for the diffraction of SH waves by randomly rough surfaces in 2D, 11A182

LEWIS, PR: Intelligent tool selection system, 7A743

LEWIS, RI: Developments of actuator disc theory for compressible flow through turbo-machines, 2A865

LEWIS, RW: Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, 6A1124
- Finite element solution of incompressible flows using an explicit segregated approach, 6A21
- Semi-analytical approach for solving forced vibration problems based on a convolution-type variational principle, 7A189

LEWIS, S: Stability of vertical thermal boundary-layer flow in a porous medium, 1A1071

LEWNARD, JJ: Effect of circulating fluidized bed particle characteristics on erosion of 1020 carbon steel, 3A1260

LEXCELLENT, C: Recovery stress of TiNi shape memory alloy under constant strain, 1A1293
- General macroscopic description of the thermomechanical behavior of shape memory alloys, 12A4

LEY, K: Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, 11A1315

LEYVRAZ, PF: Biomechanics of the human patella during passive knee flexion, 2A1284

LHEMERY, A: Impulse-response method to predict echo responses from defects in solids - Part I: Theory, 3A272

LHO, T-J: Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 2: Process optimization, 7T1033
- Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 1: Analysis of weld pool surface profile, 7T1032

LI , BEN Q: Finite-element analysis of magnetically driven recirculating flow in electromagnetic near net shape casting, 7A28

LI , CHENG: Controlling robot manipulators by dynamic programming, 3A416

LI , FENG: Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, 3A915

LI , GELAN: Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), 9A636

LI , JIACHUN: Convective Coupled Map for simulating spatiotemporal chaos in flows, 3A97

LI , JIANCHIN: Interaction of water waves and seabed by the porous medium model, 3A927

LI , JIE: Extended Kalman estimation method based on the deferential operator transform (Chinese), 9A399

LI , KE-FENG: Diffusion properties of oiled wastewater in open channel, 4A917

LI , LAIYI: One-dimensional searching method for positive coefficient geometric programming (Chinese), 9A886

LI , LIJUAN: Analysis of combined shells of revolution using the method of spline function (Chinese), 9T584

LI , MIAOQUAN: Superplastically free bulging of duralumin LY12CZ under an external strong electric field, 7T535

LI , MIN: Dynamic mathematical model study of the plate-fin humid heat exchanger, 7A1263

LI , MINGRUI: Geometric nonlinear analysis of frame structures - I: 2D problem (Chinese), 9A31

LI , RUNFANG: Three-dimensional transition isoparametric element and its stress smoothing method in nonlinear structural analysis (Chinese), 9A84

LI , SHU: Numerical solution of inverse eigenvalue problem in dynamics model updating (Chinese), 9T64

LI , XIKUI: Finite element analysis for coupled creep elastoplastic damage response (Chinese), 9A28

LI , YONGDONG: Implementation of updating element library of structural analysis program system (Chinese), 9T32

LI , YULONG: Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), 9A798

LI , ZHAOQIAN: Friction and wear behavior of Al_2O_3-TiB_2 composite against cemented carbide in various atmospheres at elevated temperature, 12A885

LI , ZHIBIAO: Triangular plate bending element considered transverse shear strain deformation (Chinese), 11A41

LI, AIQUN: Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), 4A380

LI, B: Dynamic response of flexibly jointed frames, 4A186

LI, BAOJIAN: Vibration analysis of structures with rotation and reflection symmetry, 12A133

LI, BIN: Precision calorimetric studies of H_2O electrolysis, 1A1163

LI, BING: Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), 8A581

LI, BO: Analysis of a class of nonconforming FE for crystalline microstructures, 12A8

LI, BQ: g-Jitter induced free convection in a transverse magnetic field, 12A1213

LI, C-S: Crack phases of particulate-reinforced metal matrix composites, 5A638

LI, C-Y: Velocity field measurements of cavitating flows, 6A995
LI, CHANGLIN: Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, 12A886
LI, CHEN-JUNG: Neural network representation of fatigue damage dynamics, 1A779
LI, CHENBIN: Research on theory and test on defrosting soil using microwave power (Chinese), 8A536
LI, CHUN-YEN: Cupped propeller test and analysis, 5A987
LI, CHUNSHENG: Linear prediction approach in airborne adaptive arrays, 10A398
LI, CJ: Feedforward neural networks for fault diagnosis and severity assessment of a screw compressor, 2A140
- High pressure air compressor valve fault diagnosis using feedforward neural networks, 2A141
- New feedforward neural network structural learning algorithm: Augmentation by training with residuals, 5A344
- Function space BFGS quasi-Newton learning algorithm for time-varying recurrent neural networks, 9A405
LI, CQ: Case study on the reliability analysis of deteriorating structures, 2A741
- Failure probability of reinforced concrete columns under stochastic loads, 2A753
- Computation of time-dependent structural system reliability without using global limit state functions, 11A742
LI, CW: Depth integrated modeling of tide induced circulation in a square harbor, 1A982
LI, D: Multiobjective optimization of structures with and without control, 8A284
LI, DA-QING: Nonlinear method for the propeller-rudder interaction with the slipstream deformation taken into account, 12A1166
LI, DB: Theoretical and experimental study of modal strain analysis, 9A212
LI, DE-YU: Thermal effect on the recirculation zone in sudden-expansion gas flows, 11A1139
LI, DIFEI: Method of ship vibration forecasting by databases (Chinese), 8A148
LI, DM: Largest Lyapunov exponents and bifurcations of stochastic nonlinear systems, 12A113
LI, DONG: Large amplitude vibration of corrugated annular plates, 2T102
- Vibration localization in multi-coupled and multi-dimensional near-periodic structures, 10A127
LI, DONG SHENG: Micromechanical modeling of SCS-6 fiber reinforced Ti-6Al-4V under transverse tension: Effect of fiber coating, 10A586
LI, DONGQING: Energy-minimizing states of capillary systems with bulk, surface, and line phases, 1A1003
LI, DZ-CHI: Thermomechanical response analysis of lithographic mask structure using FEM, 3A644
LI, EB: Measurements in the microscopic flow with a solid-state LDA, 2A1069
LI, F: Fundamental and subharmonic secondary instabilities of Gortler vortices, 2A970
LI, GANG: Elastic area compressibility of the rabbit aorta, 12A1465
LI, GANGLING: Stress measurement of titanium pressure vessels, 8A782
LI, GONGQIN: Multiflament source model for short-range underwater acoustic problems involving pentrable ocean bottoms, 7A331
LI, GUIHUA: Time series analysis for load identification by using impulse response function (Chinese), 4A99
- Dynamic testing on spring damping foundation (Chinese), 9A213
LI, GUIQING: Stability analysis of bars with varying cross-section, 1A646
- Static and dynamic analysis of straight bars with variable cross-section, 10A604
LI, GUO-CHEN: Formation of shear bands in plane shoot, 1A501
LI, GUO-QIANG: Continuous-discrete approach to the free vibration analysis of stiffened pierced walls on flexible foundations, 3A150
LI, GUOAN: Effective electrical conductivity of nonlinear laminate composites, 1A556
- New method for theoretical analysis of static indentation test, 8A1439
LI, GUOBING: Solutions for a class of equations occurring in research of arc column instability (Chinese), 8A847
LI, GY: Free vibration analysis of sandwich plates with laminated faces using spline finite point method, 8A135
LI, H: Head-on interaction of planar shock waves with ideal rigid open-cell porous materials: Analytical model, 1A239
- Reconsideration of oblique shock wave reflections in steady flows - Part I: Experimental investigation, 4A266
- Shock dynamics theory based analytical solution of double Mach reflections, 5A212
- Oblique-shock and expansion-fan interaction: Analytical solution, 7T1079
LI, H-Y: Computation of flow development through stationary and rotating U-ducts of strong curvature, 8A894
LI, HEWEN: Shape formation of deployable metal domes, 10A931
LI, HH: Mixed convection in a vertical channel with heated blocks, 1T1203
LI, HONGFEN: Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), 4A323
LI, HUA: New method for graded mesh generation of quadrilateral FEs, 9A78
- Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, 10A737
LI, HUI: Wavelet analysis for the plane turbulent jet: Analysis of large eddy structure, 4T1048
- Solution for the contact between two spherical particles undergoing large deformation, 12A560
LI, HX: Approach on the Mode-I fracture toughness anisotropy for materials with layered microstructures, 2A658
LI, HY: Singular integral equation-BEM to solve the Saint-Venant bending problem of cracked cylinders, 4A70
LI, HZ: Experimental study of natural convection heat transfer between an outer horizontal cylindrical envelope and an inner concentric heated square cylinder with two slots, 3A1037
LI, J: Void growth and stress-strain relations of a class of viscoelastic porous materials, 10A532
- Orthotropic creep and complex moduli of a viscoelastic composite reinforced with aligned elliptic fibers, 12A551
LI, J-F: Influence of a nonrigid baffle on intermodal radiation impedances of a fluid-loaded bilaminar plate, 7A288
LI, JC: Powell's method applied to learning neural control of three unknown dynamic systems, 2A289
- Modulation in real time of the energy repartition of a laser beam (French), 4A772
- Acquisitions and quantitative data handling of laser beam analyzer signals (French), 4T768
LI, JCM: Fatigue crack growth under mode II loading, 6A598
LI, JIA: Robust interval stability, persistence, and partial stability on Lotka-Volterra systems with time-delay, 7A371
LI, JIAN: Properties of composite laminates reinforced with E-glass multiaxial non-crimp fabrics, 6A640
- Simplified data reduction methods for the ECT test for Mode III interlaminar fracture toughness, 11A699
LI, JIANJUN: Responses of long-span structures subjected to arbitrarily coherent multi-point random seismic excitations (Chinese), 9A1386
LI, JIANQIAO: Abrasive wear behavior of bamboo, 4T830
LI, JIBIN: Chaotic dynamics and subharmonic bifurcations in a nonlinear system, 11A84
LI, JIE: Research on modeling stochastic structures (Chinese), 10A131
LI, JIMMY Y: Buckling of encased elliptic thin ring, 6A494
LI, JING-FANG: Influence of microphone vents on measurements of acoustic intensity and impedance, 7A369
- Acoustic holography: A tool for the control and diagnostic of machines and industrial equipments (French), 11T160
LI, JINWEI: Stress measurement of titanium pressure vessels, 8A782
LI, JINXIANG: Stress measurement of titanium pressure vessels, 8A782
LI, JINYU: Stress measurement of titanium pressure vessels, 8A782
LI, JUNJIE: Simplified formula of the natural period of CFRD (Chinese), 4A621
LI, JZ: Adaptive path planning and obstacle avoidance for a robot with a large degree of redundancy, 7A428
LI, K: Plane stress model for fracture of ceramics during laser cutting, 1T741
- Characterization of grinding-induced cracks in ceramics, 2A549
LI, KAI MING: Propagation of sound above an impedance plane in a downward refracting atmosphere, 7A325
- Theory of high-frequency sound propagation in a spatially inhomogeneous medium, 9A353
LI, KAITAI: Nonlinear Galerkin method and two-step method for the Navier-Stokes equations, 9A1088
LI, KAM W: Applied Thermodynamics: Availability Method and Energy Conversions, 12N45
LI, KEZHUN: Analytical model for tumbling projectile perforation of thin aluminum plates, 5A191
- Impact on aluminum plates by tumbling projectiles: Experimental study, 5A196
LI, KUN: Surface-subsurface damage and the fracture strength of ground ceramics, 12A763
LI, L: Characterization and real-time measurement of geometrical appearance of the weld pool, 12A994
LI, L-Y: Adaptive analysis of stiffened structures using stiffened plate bending elements, 1A617
- Dynamic constitutive equations and behavior of brass at high strain rates, 2A397
- Theoretical formulations for adaptive FE computations, 3A34
LI, LEI: Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), 8A827
LI, LI: Wave propagation in strings with rigid bodies, 5A132
- Energy method for computing periodic solutions of strongly nonlinear systems - I: Autonomous systems, 7A108
- Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, 10A92
LI, LIERONG: Two-control volume model and dynamic characteristics research for labyrinth seal (Chinese), 10A1019
LI, LIJIAN: Design and implementation of control system based on expert system (Chinese), 11A353
LI, LIKANG: Note on C^1-curved FE, 8A43
LI, LIN: Penalty upwind FEM for diffusive convection problem in double-diffusive system, 6A1187
LI, LONG-YUAN: Instability of cylindrical panels under combined static and dynamic loads, 1A657
- Notes on mesh optimal criteria in adaptive FE computations, 4A37
- Dynamic elastic instability of long circular cylindrical shells under pure bending, 5A536
- Approximate estimates of dynamic instability of long circular cylindrical shells under pure bending, 8A512
LI, LONG-YUAN: Bending instability of composite tubes, 10A633
LI, LP: Theory of poroelastic beams with axial diffusion, 4A541
LI, MAOCHENG: Robust explicit computational developments and solution strategies for impact problems involving friction, 8A191
LI, MIAOQUAN: Forming limit during superplastic deformation of sheet metals, 9A702
- Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, 12A672
LI, MJ: Environmental scanning electron microscopic investigation of failure mechanisms in electronic packages, 3A672
LI, MY: Geometric approach to global-stability problems, 12A100
LI, N: Analytical approach to free vibration of sandwich plates, 3T139
LI, P: Flow distribution and pressure drop in diffuser-monolith flows, 5A1227
LI, PANLIN: Design and implementation of control system based on expert system (Chinese), 11A353
- Development of CAI systems of mathematical logic and intelligence (Chinese), 11A354
LI, PING: Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), 7A758
LI, PW: Experimental study on mass-heat transfer of circular jet impingement in cubical cavities, 2A1163
LI, Q: Numerical analysis of a mixed FEM for a flow-transport problem, 7A1366
LI, QIAN: Characteristics - Galerkin and mixed FE approximation of contamination by compressible nuclear waste-disposal in porous media, 9A1432
LI, QIANG: Improved stratified sampling Monte Carlo method to analyze reliability of structural systems, 10A886
LI, QINGFEN: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820
LI, QIUSHENG: Stability analysis of bars with varying cross-section, 1A646
- Static and dynamic analysis of straight bars with variable cross-section, 10A604
LI, QUINGBIN: Dynamic damage constitutive model of concrete in uniaxial tension, 7A843
LI, ROBERT KY: Dynamic effect of laminated beam subjected to transverse impact (Chinese), 4A151
LI, RONGZHI: Interlaminar fracture of stitched GFRP laminates, 12A756
LI, RUNFANG: Notes on FEM for dynamic contact-impact problems (Chinese), 11T22
LI, S: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834
LI, SC: Nitramine deflagration: Reduced chemical mechanism for primary flame facilitating simplified asymptotic analysis, 8A238
LI, SHUANGQING: Geometry and pressure in a trochoidal-type machine without apex seal, 12A979
LI, SHUGUANG: Rigidities of 1D laminates of composite materials, 10A587
- Vectorial nature of the rotational dof in spatial beam elements, 10A605
LI, SZ: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834
LI, TANG: Adaptive control in CNC machine cutting (Chinese), 8A273
LI, TONG-SHENG: Tribological characteristics of JS material under lubrication of oil, 12A898
LI, TQ: Required rotations and moment redistribution for composite frames and continuous beams, 1A918
- Nonlinear FE analysis of composite frames, 11A13
LI, TZUU-HSENG: Design of near-optimal observer-based controllers for singularly perturbed discrete systems, 12A370
LI, TZUU-HSENG S: Robust dynamic output feedback sliding-mode control of singular perturbation systems, 6A305
LI, VC: Novel technique for fiber-matrix bond strength determination for rupturing fibers, 1A533
LI, VICTOR C: Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, 5A468
- Inclination angle effect of carbon fibers in cementitious composites, 6A439
LI, W: Reverberation loss in shallow water, 2A222
- Experimental study of natural convection heat transfer between an outer horizontal cylindrical envelope and an inner concentric heated square cylinder with two slots, 3A1037
- Heat transfer within a steel-reinforced porous concrete slab subjected to microwave heating, 3A1117
- Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, 5A697
- Vibration and stability analyses of thick anisotropic composite plates by finite strip method, 8A120
LI, WANGUANG: Aerosol evaporation in the transition regime, 12A1338
LI, WEI: Calculation of whole field for vertical round buoyant jets in static linearly stratified environment, 7A1107
LI, WEIZHONG: New explanation of cause of heat convection of gases under micro-gravity (Chinese), 8A1082
LI, WEN: Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid, 5A1193
LI, WEN-BIN: Micro mechanical based constitutive model for FE simulation of hot isostatic pressing of powder, 5A584
LI, WILLIAM XINZUO: Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, 7A880
LI, WULIN: Fatigue-strength of prestressed composite steel-concrete beams, 6A757
- Strengthening of composite steel-concrete bridges, 6A770
LI, X: Instability of an annular viscous liquid jet, 8A973
- Computer simulation of pipe bend erosion in a dilute pneumatic transport of granular materials, 10A1118
- Finite element analysis of dam-reservoir systems using an exact far-boundary condition, 12A852
- Scaling of the visible lengths of jet diffusion flames, 12A1321
- Optimal design of involute profile helical gears, 12A975
LI, X-N: Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, 4A150
LI, XD: Analysis of short crack growth from microscopic fatigue properties, 2A565
- Micromechanical model of stage I to stage II crack growth transition for aluminum alloys, 8A678
- Spatial transformation of the discrete sound field from a propeller, 11A242
- Structural dynamic analysis by a time-discontinuous Galerkin FEM, 12A211
LI, XIANG-PING: Transient effect on ideally plastic stationary crack-tip fields, 6A654
LI, XIANGUO: Scaling of separation bubbles, 4T1033
LI, XIAO-MING: Stochastic response of offshore platforms by statistical cubicization, 2A789
LI, XIAO-PING: Frequency-dependent Q-estimation of Love-type channel waves and the application of Q-correction to seismograms, 3A182
LI, XIAOFAN: Shear flow over a liquid drop adhering to a solid surface, 7A1088
LI, XIAOGANG: Variational FEM for stationary nonlinear fluid-solid interaction, 2A201
LI, XIAOYU: Laminate theory based on global-local superposition, 1A618
LI, XIKUI: Nonlinear computational solid mechanics (Chinese), 7A517
- Finite element method for gradient plasticity at large strains, 7A538
LI, XIPU: Stability analysis on earth observing system AM-1 spacecraft earth acquisition, 11T235
LI, XU-DONG: Dislocation pile-up model of fatigue thresholds for 2024- and 7075-alike aluminium alloys, 7A783
- Theoretical modeling of fatigue threshold for aluminum alloys, 10A734
LI, XUE MEI: Normal six-dof motions of knee joint during level walking, 11A1457
LI, XUELAI: Experimental study of axial heat conduction of oscillating tube's wall (Chinese), 8A1160
LI, Y: Fine-pitch stencil printing process modeling and optimization, 8A845
- Convergence analysis of a p-version FEM for 1D elastoplasticity problem with constitutive laws based on the gauge function method, 10A562
LI, Y-C: Deflagration to detonation transition fueled by dust layers, 5A213
LI, YAN-DA: Real-time computation of the eigenvectors of a class of positive definite matrices, 12A82
LI, YANG: Possible route to chaos for the Korteweg-deVries equation, 1T100
- Development of CAI systems of mathematical logic and intelligence (Chinese), 11A354
LI, YAOYONG: Solving the free boundary problem in continuous casting by using BEM, 8A65

LI, YB: Generating solid models from 2D representations, 6A854
- Curvature sensing: A new concept in tracing technology, 6A375
LI, YF: Sensor-based robot transition control strategy, 8A333
LI, YI A: Analyticity of solitary-wave solutions of model equations for long waves, 10A285
LI, YI-SHAN: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
LI, YINGPING: Source characterization and fault plane determinations for M_{N-L} = 1.2 to 4.4 earthquakes in the Charlevoix Seismic Zone, Quebec, Canada, 6A1234
LI, YL: Efficient computation of sound field above ground in horizontally stratified media using a Wentzel-Kramers-Brillouin-type approximation with Airy functions, 5A287
- Near-field computation for sound propagation above ground: Using complex image theory, 7A362
LI, YONG: Numerical simulation of flow of highly viscoelastic flow in 3D varying thick slit channel, 11A860
LI, YONG-GANG: Low-velocity fault-zone guided waves: Numerical investigations of trapping efficiency, 11A1343
LI, YONG-SHENG: Research on axial dispersion and other parameters of sample zone in FIA with zone circulating flow-injection analysis, 12T1125
LI, YQ: Relocation of anti-resonances of a vibratory system by local structural changes, 4A138
LI, YU-CHENG: Hybrid method for the simulation of wave spectrum transformation and breaking phenomena on a slope, 1A231
LI, YUAN N: Cohesive crack modeling of influence of sudden changes in loading rate on concrete fracture, 4A742
LI, YUCHENG: Current effect for wave forces on bipile in tandem array (Chinese), 8A878
LI, YUGANG: Cavitation erosion of flame spray weld coating of nickel-based alloy powder, 4A681
LI, YUGUO: Implementation of some higher-order convection schemes on non-uniform grids, 5A69
LI, YUN: Genetic algorithm automated approach to the design of sliding mode control systems, 10A426
LI, YUNGUI: Unified model for structural reliability analysis based on fuzzy random probabilistic theory (Chinese), 8A737
LI, YUNPENG: Stress singularities near corner of wedged dissimilar materials (Chinese), 7A496
- Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, 12A492
LI, YUNXING: Automatic quadrilateral mesh generation for planar regions (Chinese), 11A30
LI, YX: Convergence of multigrid methods for solving FE equations in the presence of singularities, 6A5
LI, Z: Control of seismic-excited buildings using active variable stiffness systems, 12A1399
LI, Z-M: Characterization of effective masses and optical gain in strained quantum-well lasers, 6T307
LI, ZH: Experience in the use of damage mechanics to simulate crack behavior in specimens and structures, 1T796
- Implications of the use of the PD6493 level 3 failure assessment procedure, 6A689
- Use of constraint-modified failure assessment lines in failure assessment diagrams, 12A749
LI, ZHAO: CAD-CAM of 3D woven structures (preforms) for fiber-reinforced composites, 6A427
LI, ZHEN: Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, 6A612
- Prediction of probability distribution of fatigue life of 15MnVN steel notched elements under variable-amplitude loading, 9A777
LI, ZHENGZHI: Zero-brittleness size-effect method for one-size fracture test of concrete, 10A763
LI, ZHIPING: Existence of minimizers and microstructure in nonlinear elasticity, 12T483
LI, ZHONG-HUA: Systematic design of robust controllers for nonlinear uncertain systems, 2T243
- Stress-intensity factor for a semi-elliptical surface crack at the thread root of a screwed-pipe joint, 8A616
LI, ZHU: Inverse problem of a linear dynamic system with noise, 5T316
LI, ZI-CAI: Combinations of the Ritz-Galerkin and finite difference methods, 11A47
LI, ZONG-FU: Measurement of stress concentration in a fiber adjacent to a fiber break in a model composite, 2A420
- Fiber interactions in the multi-fiber composite fragmentation test, 2A650
LI, ZR: Numerical solution for the inverse natural-convection problem, 4A1175
- Determination of the radiative boundary conditions on the surface of an enclosure, 8A1186
LIABLE, JP: Poroelastic FE formulation including transport and swelling in soft tissue structures, 9A1443
LIAN, BING: Study of variational law of information entropy passing through systems (Chinese), 8A260
- Real-time post-treatment algorithm for adaptive noise cancellation used in speech enhancement (Chinese), 8A255
LIAN, G: Elastohydrodynamic collisions of solid spheres, 9A1118
LIAN, JIANSHE: Dislocation density approximation for the flow stress-grain size relation of polycrystals, 1A516
- Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, 4A786
LIAN, YAFENG: Correlation among the tribological characteristic parameters of rare earth trifluorides and their electron structures, bond parameters, and thermodynamic parameters, 3A1004
LIANDRAT, J: Spectral contribution of coherent motions in a turbulent boundary layer, 4A1087
LIANG, C: Integration and design of piezoceramic elements in intelligent structures, 7A913
LIANG, CHEN: Electro-mechanical impedance modeling of active material systems, 11A735
- Dynamic transduction characterization of magnetostrictive actuators, 11A370
LIANG, CHO-CHUNG: Optimal design of a dynamic absorber using polymer-laminated steel sheets, 12A818
LIANG, DAKAI: Strain measurement in the smart composite, 10A913
LIANG, DONG: Equations of complete depth-averaged turbulence model in general orthogonal coordinates, 9A1193
LIANG, GOUPING: Shearing flow near a bypass with a ball in it, 9A1149
LIANG, JUN: Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, 1A682
LIANG, KEO-ZOO: Boundary element method for micropolar elasticity, 10A526
- Boundary element method for micropolar thermoelasticity, 11A1254
LIANG, LIFU: Mechanical property of constraint, 7A83
LIANG, LIQUN: Liquefaction under random loading: Unit energy approach, 3A575
LIANG, LUNHUI: Influences of external drying condition on drying process of porous medium (Chinese), 8A1203
LIANG, MING-TE: Simplified procedure for formulation of soil-structure interaction problems, 12A1396
LIANG, MT: Dual boundary integral equations for exterior problems, 9A108
LIANG, PN: Attenuation of higher order circumferential thermoacoustic waves in viscous fluid lines, 12A279
LIANG, QINGHUAI: Probabilistic model of multi-component earthquake for rigid rectangular foundation (Chinese), 8A1341
LIANG, RF: Experimental observation and numerical prediction of planar entry flow and die swell for molten polyethylenes, 2A682
LIANG, S-M: Efficient, robust second-order total variation diminishing scheme, 6T203
LIANG, SHALI: Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), 8A1232
LIANG, SY: Three dimensional cutting force analysis in end milling, 6A580
LIANG, XIN-GANG: Thermal effect on the recirculation zone in sudden-expansion gas flows, 11A1139
LIANG, XQ: Shape control of vibrating simply supported rectangular plates, 6A138
- Vibration of a simply supported rectangular elastic plate due to piezoelectric actuators, 8A122
LIANG, Y-M: Large deformation and localization behavior of an epoxy resin under multiaxial stress states, 8A381
LIANG, YIN KO: Interactions between inclusions and various types of cracks, 8A666
LIANG, YN: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834
LIANG, ZAICHAO: Interaction of turbulent coherent structures and small-scale structures, 8A214
LIANG, ZHONGWEI: Mechanical property of constraint, 7A83
LIANG, ZHUJIAN: Several factors impairing the phase measurement accuracy, 2A688
LIAO, CHENG-CHAN: Application of variable structure control in the nonlinear string system, 2A99
LIAO, CHING-CHO: Optimal design of a dynamic absorber using polymer-laminated steel sheets, 12A818
LIAO, DONGMEI: Simulation studies of control of oil-refining heating furnaces (Chinese), 8A1270
LIAO, GUOJUN: Moving grid FEM using grid deformation, 3A31
- Analysis and computation of adaptive moving grids by deformation, 12A38
LIAO, HONGJIAN: Residual strength characteristics of soft rocks with a discontinuous plane (Japanese), 7A715
LIAO, MIN: Cumulative fatigue damage dynamic interference statistical model, 6A627
- Large sample size experimental investigation on the statistical nature of fatigue crack initiation and growth, 9A776
- Statistical investigation of fatigue crack initiation and growth process based upon a large sample size experiment, 9A779
LIAO, MIN-HWA: Body force weight functions of cracked bodies, 4A707
LIAO, S-C: Real time frequency domain fiberoptic temperature sensor using ruby crystals, 6A1367
LIAO, SHI-JUN: Short note on the high-order stream-function-vorticity formulations of 2D steady state Navier-Stokes equations, 6A914
LIAO, SHU-SHYAN: Impact formulas for vehicles moving over simple and continuous beams, 3A156
LIAO, TW: Characterization of grinding-induced cracks in ceramics, 2A549
- Fuzzy multicriteria decision-making method for material selection, 7A467
- Surface-subsurface damage and the fracture strength of ground ceramics, 12A763
LIAO, TY: Parallel pipelining, 5A942
- Two-dimensional cusp at the trailing edge of an air bubble rising in a viscoelastic liquid, 6A946
LIAO, WC: Determination of Mode III fracture toughness in thick composite laminates, 11A678
LIAO, XIAO-XIN: Robust interval stability, persistence, and partial stability on Lotka-Volterra systems with time-delay, 7A371
LIAO, XINHAO: Existence of formal integrals of symplectic integrators, 10A332
LIAO, Y: Criterion for the detachment of laminar and turbulent boundary layers, 4A1032
LIAO, YS: Monitoring and self-learning fuzzy control for wire rupture prevention in wire electrical discharge machining, 5A317
- New on-line spindle speed regulation strategy for chatter control, 8A103
- Carbide tool wear mechanism in turning of Inconel 718 superalloy, 11A807
LIAO, ZHEN-PENG: Surface motion of a cylindrical hill of circular-arc cross-section for incident plane SH waves, 9A272
LIAO, ZHENG-PENG: Scattering of plane SH waves by a cylindrical alluvial valley of circular-arc cross-section, 3A1311
LIAPIS, SI: Structure and development of a wing-tip vortex, 10A1207
LIAU, CJ: Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, 7A1216
LIAW, CHIH-YOUNG: Earthquake-resistant steel frames with energy dissipating knee elements, 1A1394
LIAW, CY: Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, 12A262
LIBAI, A: Direct and inverse dynamics of a very flexible beam, 12A144
LIBBY, PA: Premixed combustion in laminar Couette flow, 8A1251
LIBERATI, D: Surface mechanomyogram reflects muscle fibers twitches summation, 8T1442
LIBERATI, P: Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, 2A792
LIBERATORE, F: One-dimensional, equilibrium-chemistry ram accelerator performance calculations, 4A1273
- Experimental flow visualization for a large-scale ram accelerator, 6A1056
LIBERMAN, AA: Apparatus for measuring the energy of pulse radiation of a laser, 9A860
LIBERZON, AS: Steady interaction of elastic blades of turbomachines with a 3D ideal gas flow, 5A228
LIBRESCU, L: Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, 1A661
- Buckling under axial compression of thin-walled composite beams exhibiting extension-twist coupling, 1A638
- Frequency-load interaction of geometrically imperfect curved panels subjected to heating, 6A134
- Integrated structural tailoring and control using adaptive materials for advanced aircraft wings, 7A1165
- Bending vibrations of adaptive cantilevers with external stores, 8A150
- Nonclassical effects on divergence and flutter of anisotropic swept aircraft wings, 9A322
- Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, 10A196
LIBRESCU, LI: Flutter of geometrically-imperfect shear-deformable laminated flat panels using nonlinear aerodynamics, 10A313
LIBURA, W: Modeling of strain field in extrusion by die geometry, 1A714
LICHTENSTEIN, O: Optimal design of biaxial tests for structural material characterization of flat tissues, 9A1458
LICKA, T: Method of signal processing in motion analysis of the trotting horse, 12A1471
LIDBURY, DPG: Ductile-to-brittle transition of ferritic steel components: Some recent developments in relation to nuclear reactor pressure vessel integrity, 1T1410
LIDDELL, PV: Yield stress measurements with the vane, 12A1198
LIE, KUN-NUN: Influence of surface mass flux on vortex instability of a horizontal mixed convection flow in a saturated porous medium, 2A1106
LIE, TT: Fire resistance of steel columns filled with bar-reinforced concrete, 6A746
LIE, YU: Prediction of hydrodynamic thrust bearing performance using the modified Trefftz method, 6A1046
LIEBELT, S: Determination of temperatures for sliding contact with applications for wheel-rail systems, 4A839
LIEBER, RL: Stepwise regression is an alternative to splines for fitting noisy data, 6A1361
- Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
LIEBST, BS: Finite element model tuning using automated structural optimization system software, 7A13
LIECHTI, KM: Large deformation and localization behavior of an epoxy resin under multiaxial stress states, 8A381
LIEN , FS: Second-moment closure for 3D turbulent flow around and within complex geometries, 9A1198
LIEN, TK: Mechanical analysis of high precision manipulator, 4A400
LIEN, WAN-YIH: Compressibility effects and mixing enhancement in turbulent free shear flows, 4A1074
LIENKAMP, M: S-glass-Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation, 1A563
LIEPSCH, DW: Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer, 6A1368
LIERKE, EG: Acoustic levitation: A comprehensive survey of principles and applications (German), 11A237
LIETZMANN, A: Linear and nonlinear FE analyses of pipe bends, 9A33
LIEVEN, NAJ: Modified surface spline for expansion and smoothing of frequency response functions, 8A139
LIEW, JM: Analysis of superplastic blow-forming in a circular closed-die, 12A669
LIEW, JYR: Analysis and design of steel frames considering panel joint deformations, 2A781
LIEW, KM: Hybrid analysis of Lamb wave reflection by a crack at the fixed edge of a composite plate, 1A207
- Interaction between a spherical inhomogeneity and two symmetrically placed penny-shaped cracks, 1A472
- Modeling 3D vibration of elliptic bars, 1A135
- Three-dimensional vibratory characteristics of solid cylinders and some remarks on simplified beam theories, 1A139
- Vibration of pretwisted cantilever trapezoidal symmetric laminates, 2A97
- Vibration of stiffened skew Mindlin plates, 3A133
- Vibration of shallow conical shells with shear flexibility: A first-order theory, 4A178
- Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, 4A177
- Vibration of stress-free hollow cylinders of arbitrary cross section, 5A140
- Variable residue method for modal parameter estimation, 5A101
- Free vibration of cantilevered cylinders: Effects of cross-sections and cavities, 5A119
- Buckling and vibration of thick laminates on Pasternak foundations, 6A147
- Modeling the vibration of a variable thickness elliptic-sectorial disk with central point clamp or concentric surface clamp, 6A143
- Vibratory behavior of doubly curved shallow shells of curvilinear planform, 6A144
- Generalized differential quadrature method for buckling analysis, 7A681
- Differential quadrature method for Mindlin plates on Winkler foundations, 7A639
- Vibration of doubly-curved shallow shells, 8A127
- Determination of stress field in an elastic solid weakened by parallel penny-shaped cracks, 8A620
- Vibratory characteristics of pretwisted cantilever trapezoids of unsymmetric laminates, 10A199
- Mixed-interface substructures for dynamic analysis of flexible multibody systems, 11A78
- Differential quadrature method for thick symmetric cross-ply laminates with first-order shear flexibility, 11A491
- Analytical buckling solutions for Mindlin plates involving free edges, 12A618
LIEW, R: Analysis of thin film thickness determination in two-phase flow using a multifiber optical sensor, 11A1081
LIFSHITZ, JM: Interlaminar shear behavior of plain-weave GRP at static and high rates of strain, 11A485
LIGHT, GM: Using aural (audible) information generated directly from conventional NDE technology signals to aid the inspector in defect detection and discrimination, 7A893
LIGHT, JS: Study of noise on a small-scale hovering tilt rotor, 10A341
LIGHTFOOT, JA: Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers, 7A345
LIGNOLA, PG: Modeling methane cool flames and ignitions, 3A1237
LIGRANI, PM: Effects of Dean vortex pairs on surface heat transfer in curved channel flow, 3A1060

- Mixed convection in straight and curved channels with buoyancy orthogonal to the forced flow, 11A1132
- Bulk flow pulsations and film cooling - II: Flow structure and film effectiveness, 11A1147
- Bulk flow pulsations and film cooling - I: Injectant behavior, 11A1146

LILLELEHT, LU: Thermovibrational convection in a vertical cylinder, 12A1215

LILLEY, GM: Radiated noise from isotropic turbulence with applications to the theory of jet noise, 8A249

LILLY, JH: Experimental application of an explicit optimal linear quadratic Gaussian controller, 1A393

LIM, CH: Numerical modeling of negative skin friction on pile groups, 10A687

LIM, CHA-YONG: Directional continuous casting process and its application to Al-1% alloy, 7A1248

LIM, CW: Vibration of pretwisted cantilever trapezoidal symmetric laminates, 2A97

- Vibration of shallow conical shells with shear flexibility: A first-order theory, 4A178
- Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, 4A177
- Modeling the vibration of a variable thickness ellipsoidal dish with central point clamp or concentric surface clamp, 6A143
- Vibratory behavior of doubly curved shallow shells of curvilinear planform, 6A144
- Vibration of doubly-curved shallow shells, 8A127
- Vibratory characteristics of pretwisted cantilever trapezoids of unsymmetric laminates, 10A199

LIM, D: Experiments in contact control, 7A442

LIM, EH: Stiffness loss of composite laminates with transverse cracks under Mode I and Mode III loading, 10A803

- Analysis of composite laminates with transverse cracks, 12A557

LIM, FEE KIONG: Studies on concrete slabs with stud shear reinforcement in vicinity of edge and corner columns, 3A787

LIM, HJ: Evolution of initially uniform shear flow through a nearly 2D 90° curved duct, 1T1058

LIM, IL: Finite element code for fracture propagation analysis within elasto-plastic continuum, 6A11

LIM, JK: Simple error estimator for size and distortion of 2D isoparametric FEs, 10A23

LIM, JOON W: Correlation of 2GCHAS analysis with experimental data, 6A1036

LIM, KYONG B: Robust control design framework for substructure models, 6A304

LIM, LG: Effect of volume fraction of reinforcement on the elastic-viscoplastic response of metal-matrix composites, 4A479

LIM, LK: Steady load-carrying capacity of recessed hydrodynamic bearings, 4T1124

LIM, MK: Natural frequencies of plates with arbitrary concentrated mass and stiffness modifications, 1A152

- Interaction between a spherical inhomogeneity and two symmetrically placed penny-shaped cracks, 1A472
- Modeling 3D vibration of elliptic bars, 1A135
- Vibration of stiffened skew Mindlin plates, 3A133
- Vibration of stress-free hollow cylinders of arbitrary cross section, 5A140
- Variable residue method for modal parameter estimation, 5A101
- Free vibration of cantilevered cylinders: Effects of cross-sections and cavities, 5A119
- Generalized differential quadrature method for buckling analysis, 7A681
- Determination of stress field in an elastic solid weakened by parallel penny-shaped cracks, 8A620
- Eigenvector derivatives of structures with rigid body modes, 10T237
- Practical algorithm for the efficient computation of eigenvector sensitivities, 12A81

LIM, MONG KING: Experimental investigations on tension and compression properties of an electrorheological material, 9A1040

LIM, SY: Partial state feedback controller for trajectory tracking of rigid-link flexible-joint robots using an observed backstepping approach, 2A315

LIM, TJ: Path dependence of shape memory alloys during cyclic loading, 7T523

LIM, TT: Experimental study of round jets in cross-flow, 7A1113

LIMACHE, AC: Inverse methods for airfoil design, 2A1016

LIMARCHENKO, OS: Nonstationary revolution of a cylindrical reservoir partially filled with liquid (Russian), 7A284

LIN , GUIPING: Dynamic model of the solar-powered solid absorption refrigeration system, 7T1276

LIN , HUAN: Chaotic roll motion and capsize of ships under periodic excitaion with random noise, 7A200

LIN , JIANHAO: High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), 3A61

LIN , KJ: Stability of laminated plates using finite strip method based on a higher-order plate theory, 7A663

LIN , MC: Gas-phase ignition of accelerated boundary-layer flows on strongly catalytic surfaces, 3A1204

LIN , MIAN: Interaction of water waves and seabed by the porous medium model, 3A927

LIN , ST: Thermoelastic stress analysis of orthotropic composites, 2A1159

LIN , TENGJIAO: Three-dimensional transition isoparametric element and its stress smoothing method in nonlinear structural analysis (Chinese), 9A84

LIN , XIAOSHAN: Contact detection algorithms for 3D ellipsoids in discrete element modeling, 2A516

LINKOV, AM: Method of finding asymtotic forms at the common apex of elastic wedges, 2A382

LIN, BAISONG: Supplementary study of anisotropic plastic fields at a rapidly propagating plane-stress crack-tip - I, 7A825

LIN, BI: Application of Spinor method to dynamic analysis of robot, 9A453

LIN, BING-HOUNG: Impact formulas for vehicles moving over simple and continuous beams, 3A156

- Vehicle-bridge interaction analysis by dynamic condensation method, 3A157

LIN, BOR-HORNG: Buckling optimization of symmetrically laminated plates with various geometries and end conditions, 6A496

LIN, C: CAD approach to helical groove machining - I: Mathematical model and model solution, 3A617

- Helical micro-drill point design and grinding, 5A577

LIN, C-C: Effects of damping and damping mistuning on the forced vibration response of bladed disks, 12A181

LIN, C-KJ: Effect of cyclic loading on the creep performance of silicon nitride, 10A1394

LIN, CA: Modeling dump combustor flows with and without swirl at the inlet using Reynolds stress models, 1A1333

LIN, CC: Equilibrium displacement and stress distribution in a 2D, axially moving web under transverse loading, 5A498

- Optimal discrete-time structural control using direct output feedback, 10A885
- Time-delay effect and its solution for optimal output feedback control of structures, 12A417

LIN, CH: Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, 6A453

LIN, CHENG-HORNG: P-wave backazimuth anomalies observed by a small-aperture seismic array at Pinyon Flat, Southern California: Implications for structure and source location, 11A1392

LIN, CHENG-XIAN: Laminar heat transfer in square duct flow of aqueous CMC solutions, 4A1144

LIN, CHIA-CHING: Iterative FE-BE algorithm, 9A61

LIN, CHIEN-CHANG: Engineering analysis of buckling of delaminated beam plates, 12A628

LIN, CHIH-MIN: U-parameter robust flight control design, 1T404

- Quantitative performance robustness linear quadratic optimal system design, 11A285

LIN, CHING: PDF description of turbulent plane Couette flow, 4A934

LIN, CHING-FANG: Numerical approach to computing nonlinear H_{∞} control laws, 3A342

- Linearized kappa guidance, 3T350
- Sensitivity analysis algorithm for the state chi-square test, 6A276
- H_{∞} control via output feedback for state delayed systems, 11A280

LIN, CHING-YAO: Adaptive sliding mode control for variable structure systems with constraint control input, 7T387

LIN, CHINGJU: Osmotic dilution stimulates axonal outgrowth by making axons more sensitive to tension, 5A1374

LIN, CHUEN-SEN: Use of compatibility linkages and solution structures in the dimensional synthesis of mechanism components, 11A826

LIN, CK: Flow developments above 50-deg sweep delta wings with different leading-edge profiles, 1A1102

- Swirling flows in circular to rectangular transition ducts, 10A1148

LIN, CT: Fatigue delamination growth in carbon fiber-reinforced aluminum laminates, 4A730

- Delamination growth and its effect on crack propagation carbon fiber reinforced aluminum laminates under fatigue loading, 8A569

LIN, CY: Aeroelastic actuation using elastic and induced strain anisotropy, 2A199

LIN, DG: Control of adhesion strength in metal-elastomer joints during elastomer crosslinking, 10A968

LIN, DL: Deformation tensor model of Brownian suspensions of orientable particles: The nonlinear dynamics of closure models, 12A1003

LIN, EC: Swirling flows in circular to rectangular transition ducts, 10A1148

LIN, EI: Cassini multilayer insulation blanket high-temperature exposure tests, 3A1245

- Effective emittance for Cassini multilayer insulation blankets and heat loss near seams, 10A1305

LIN, FC: Dual twin image effect from a waveguide hologram, 1A847

LIN, GAO: Simplified formula of the natural period of CFRD (Chinese), 4A621

LIN, GUOYU: Quantifications of crack constraint effects in an austenitic steel, 2A636

- Verification of a cohesive zone model for ductile fracture, 10A787

LIN, H: Parametric effects on lift force of an airfoil in unsteady freestream, 10T1193

- Analysis of a nonlinear system exhibiting chaotic, noisy chaotic, and random behaviors, 12A107

LIN, H-T: Inclined and horizontal wall plumes, 11A1118

LIN, HJ: Failure analysis of woven-fabric composites with molded-in holes, 6A665

LIN, HONGTAO: Adaptive control in CNC machine cutting (Chinese), 8A273

LIN, HORNG-MO: Application of off-line and on-line identification techniques to building seismic response data, 8A1346

LIN, HSIAO-TSUNG: Combined heat and mass transfer by laminar natural convection from a vertical plate, 3A1030

LIN, HWEI-TSER: Direct identification of non-uniform beams using static strains, 11A499

LIN, I-EN: Model for stress-induced growth in the developing heart, 5A1367

LIN, J: Investigation of a high accuracy uni-axial creep testpiece with slit extensometer ridges, 1A479

LIN, J-C: Near-wake of a circular cylinder: Control by steady and unsteady surface injection, 1A1065

- Buffeting of fin: Distortion of incident vortex, 4A942
- Buffeting of fins: An assessment of surface pressure loading, 4T943
- Buffeting of a fin: Streamwise evolution of flow structure, 7A1153

LIN, JAE-YUH: Numerical algorithm for estimating temperature-dependent thermal conductivity, 12A1251

LIN, JAW-REN: Viscous shear effects on the squeeze-film behavior in porous circular disks, 7A1190

LIN, JC: Evolution of a quasi-steady breaking wave, 4A263

LIN, JEN FIN: Analysis of the friction and wear mechanisms of structural ceramic coatings - Part I: The effect of processing conditions, 12A876

- Tribological characteristics of titanium nitride coatings - Part II: Comparisons of two deposition processes, 12A940
- Tribological characteristics of titanium nitride coatings - Part I: Coating thickness effects, 12A939

LIN, JH: Propagation of non-stationary random waves along substructural chains, 4A242

LIN, JH CHERN: Effect of humidity on the tribological behavior of carbon-carbon composites, 11A802

LIN, JIAHAO: Parallel computing for the high precision direct integration method, 4A86

- High precision direct integration scheme for analyzing structural nonstationary random responses (Chinese), 8A760
- High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, 8A759
- Responses of long-span structures subjected to arbitrarily coherent multi-point random seismic excitations (Chinese), 9A1386

LIN, JIAN JUN: Numerical simulation of concrete slab-on-steel girder bridges with frictional contact, 11A14

LIN, JIFANG: Comprehensive evaluation and prediction and enhancement of boiling heat transfer with additives (Chinese), 8A1123

LIN, JIUM-MING: Back-to-turn optimal guidance with linear exponential quadratic Gaussian performance criterion, 3A343

LIN, JU CHUN: Elastic instability of a beam resting on an elastic foundation subjected to a partially tangential force, 10A623

LIN, JUN: Support leg stress in pressure vessels mounted on arbitrary legs subjected to lateral loadings, 10A954

LIN, JX: Effect of surroundings and roof corner geometric modifications on roof pressures on low-rise buildings, 4A1348

LIN, JY: Fatigue of cellular materials, 5A595

LIN, JZ: Research on reducing erosion by adding ribs on the wall in particulate two-phase flows, 11A649

LIN, K-C: Hydrodynamic suppression of soot emissions in laminar diffusion flames, 6A1196

- Soot nucleation and growth in acetylene air laminar coflowing jet diffusion flames, 8T1262

LIN, KUN-JAN: Experimental and analytical investigation of transonic limit-cycle oscillations of a flaperon, 2A1014

LIN, KUO-CHI: Network load in distributed interactive simulation, 5T1019

- Smoothing of dead reckoning image in distributed interactive simulation, 9T964

LIN, L: Static and dynamic analysis of tall tube-in-tube structures by finite story method, 11A141

LIN, LIANG-HORNG: Application of two-refractive-index contouring on the contour difference of two compared specimens, 12A784

LIN, LIH-CHANG: Composite adaptive control with flexible quantity feedback for flexible-link manipulators, 10A485

LIN, LIYAN: Experimental study of shear behavior of concrete beams with cold rolled deformed steel stirrups (Chinese), 8A747

LIN, MC: Thermal ignition in buoyancy-driven boundary layer flows along inclined hot plates, 10T1247

LIN, MEEI-LING: Effects of frequency on damping properties of sand, 12A648

LIN, MING-CHAO: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384

LIN, MING-CHYUAN: Buckling and postbuckling of spherical shells with apical cutout under ring load, 2A497

LIN, MONG-TUNG: Natural convection of non-Newtonian fluids along a wavy vertical plate including the magnetic field effect, 11A1144

LIN, MS: Automatic construction of CSG solids from a single isometric drawing, 7A1016

LIN, PH: Recovery stress of TiNi shape memory alloy under constant strain, 1A1293

LIN, PSANG DAIN: Machining and on-line measurement of spatial cams on four-axis machine tools, 3A623

LIN, Q: High accuracy for mixes FEMs in Raviart-Thomas element, 10A31

LIN, RAY-SING: Stability of attachment-line boundary layers - Part 1: The incompressible swept Hiemenz flow, 9A1172

LIN, RC: Optimal roll control of a single-unit lorry, 7A198

- Active roll control of articulated vehicles, 12A395

LIN, RM: Natural frequencies of plates with arbitrary concentrated mass and stiffness modifications, 1A152

- Variable residue method for modal parameter estimation, 5A101
- Eigenvector derivatives of structures with rigid body modes, 10T237
- Identification of damping characteristics of viscoelastically damped structures using vibration test results, 11A153
- Practical algorithm for the efficient computation of eigenvector sensitivities, 12A81

LIN, RUILIN: Application of Spinor method to dynamic analysis of robot, 9A453

LIN, S: Solution of cracks emanating from circular holes, 11A668

LIN, S-Y: Coupled vibration and natural frequency analysis of isotropic cylinders or disks of finite dimensions, 1A159

LIN, SB: Experimental study of the plastic yielding of rolled sheet metals with the cruciform plate specimen, 1A526

LIN, SC: Drill wear monitoring using neural networks, 7A1001

- Drilling carbon fiber-reinforced composite material at high speed, 12A686

LIN, SH: Hybrid neural network for image classification, 1A850

LIN, SHIH-TIN: Multivariable control of the F-100 turbofan engine using Edmunds' method, 9A1343

LIN, SHIN-TIN: Multivariable control of the J-85 turbojet engine for full flight envolope operation, 12A388

LIN, SHUEEI MUH: Dynamic analysis of nonuniform beams with time-dependent elastic boundary conditions, 12A145

LIN, SONG W: Influence of surface flow on aerodynamic loads of a cantilever wing, 8A1010

LIN, SP: Hydrodynamic stability of pendent drop under a liquid column, 9A1076

LIN, ST: Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, 6A453

LIN, SY: Investigation of die-workpiece interface friction during the upsetting process, 6A551

LIN, TF: Studies of helical magnetohydrodynamic seawater flow in fields up to twelve teslas, 4A1101

- Transient 3D convection of air in a differentially heated rotating cubic cavity, 7A1221
- Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, 7A1216
- Experimental study of unstable mixed convection of air in a bottom heated horizontal rectangular duct, 8A1090
- Numerical simulation of transitional aiding mixed convective air flow in a bottom heated inclined rectangular duct, 8A1096
- Unstable aiding and opposing mixed convection of air in a bottom-heated rectangular duct slightly inclined from the horizontal, 8A1099

LIN, TING: Adaptive control of vehicle system (Chinese), 6A323

LIN, TSANN-RONG: Hydrodynamic lubrication of journal bearings including micropolar lubricants and 3D irregularities, 10A1223

LIN, TSUNG-WU: Experimental study of base isolation by free rolling rods, 5A167

LIN, VEN-HUEI: Analysis of the variation of the cold-rolling characteristics of rolling force, strip shape, stress and temperature, for 3D strip, 6A547

LIN, W: Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, 1A661

- Frequency-load interaction of geometrically imperfect curved panels subjected to heating, 6A134

- Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, 10A196
LIN, WEI: Plane problem of orthotropic quasistatic thermoelasticity, 7A1282
LIN, WEN-YI: Performance evaluation of porous radiant gas burners, 1A1372
LIN, WENLIA: Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, 11A808
LIN, WL: Experimental study of unstable mixed convection of air in a bottom heated horizontal rectangular duct, 8A1090
- Unstable aiding and opposing mixed convection of air in a bottom-heated rectangular duct slightly inclined from the horizontal, 8A1099
LIN, XIAO: Existence and uniqueness of solutions by the covering domain method in linear elastostatics, 8A379
LIN, XIAO-LING: Physical theory of asymmetric plasticity, 1A492
LIN, Y-H: Numerical evaluation for stability and performance of an electronic damping device for structural vibration control, 1A884
LIN, YAN: Research and development for expert system of ship general arrangement (Chinese), 8A345
- Unigraphics software and ship CAD-CAM platform (Chinese), 9A1015
- Ship hull geometric modeling design and software system (Chinese), 9A1014
LIN, YAW-WEN: Application of grey predictor and fuzzy speed regulator in controlling a retrofitted machining table, 7T735
LIN, YIER: Riemann problem for an elastic bar that changes phase, 1A194
LIN, YIH-HWANG: Discretization considerations in moving load FE beam models, 7A12
LIN, YIYAN: Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, 3A307
- Experimental characterization of the vibrational behavior of a fluid-filled thin shell for the purpose of response estimation, 5A234
LIN, YJ: Modeling and fuzzy logic control of an active reaction compensating platform system, 3A819
LIN, YK: Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics, 4R4
- Probabilistic Structural Dynamics: Advanced Theory and Applications, 6R6
- Application of quasi-conservative averaging to a nonlinear system under nonwhite excitation, 5A104
LIN, YS: Study of backlash on the motion accuracy of CNC lathes, 8A555
LIN, YUANDAN: Smooth converse lyapunov theorem for robust stability, 7A372
LIN, YUN: FEM for simply supported thin polygonic plates (Chinese), 9A27
LIN, YUR-TSAI: Study of flow, heat transfer and particle deposition during the modified chemical vapor deposition process, 7A1228
LIN, YY: Phenomena of cracks perpendicular to an interface between dissimilar orthotropic materials, 9A820
LIN, Z: High strain rate deformation in particle reinforced metal matrix composites, 8A442
LIN, ZAIQI: Model of maximum liquid rate of fluidized spray granulator (Chinese), 8A935
LIN, ZHE: Calculation method of resonant frequency on wave-induced shiphull vibration (Chinese), 8A147
LIN, ZHIHANG: Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), 4A391
LIN, ZHONG-QIN: Thermal post-buckling analysis of imperfect laminated plates, 1A660
LIN, ZHUHAI: Application of nonlinear finite strip technique to concrete deep beams, 4A809
LIN, ZM: Stability of thin-walled pultruded structural members by the FEM, 5A37
LIN, ZONE-CHING: Study of orthogonal cutting with tool flank wear and sticking behavior on the chip-tool interface, 3A625
- Analysis of orthogonal finish machining using tungsten carbide and diamond tools of different heat transfer coefficients, 3A614
- Investigation of the effect of speeds of work rolls on rolling strip, 5A560
- Analysis of the variation of the cold-rolling characteristics of rolling force, strip shape, stress and temperature, for 3D strip, 6A547
LINAN, A: Mixing layer ignition of hydrogen, 1A1312
- Autoignition of nonuniform mixtures in chambers of variable volume, 2A1175
- Effects of displacement induced by thermal perturbations on the structure and stability of boundary-layer flows, 7A1098
- Relationships between bifurcation and numerical analyses for ignition of hydrogen-air diffusion flames, 11A1273
LINARES, F: Asymptotic behavior of solutions of a generalized Boussinesq type equation, 2T353
LIND, CA: Unsteady characteristics of a hypersonic type IV shock interaction, 5A901
- Computational analysis of the unsteady type IV shock interaction of blunt body flows, 6A200
LIND, L: Experimental investigation for agglomeration of aerosols in alternating electric fields, 4A1284
LIND, R: Optimally scaled H_∞ full information control synthesis with real uncertainty, 12T355
LIND, T: Ash vaporization in circulating fluidized bed coal combustion, 9A1322
LINDBERG, W: Annoyance of idling diesel engine noise evaluated by multivariate analysis, 7A348
LINDE, BBJ: Absorption of ultrasonic waves in the mixtures of Kneser liquids, 9A258
LINDEN, PF: Source-sink turbulence in a rotating stratified fluid, 2A989
- Laboratory simulation of mixing across tidal fronts, 8A983
- Multiple sources of buoyancy in a naturally ventilated enclosure, 9A1433
- Natural ventilation of an enclosure containing two buoyancy sources, 9A1434
LINDERSSON, K: Fiber optic strain gauge linearization, 1A849
LINDNER, JF: Removal, suppression, and control of chaos by nonlinear design, 2A272
LINDSAY, KA: String bowing revisited, 5A130
LINDSLEY, BA: Effect of circulating fluidized bed particle characteristics on erosion of 1020 carbon steel, 3A1260
LINDSTEDT, RP: Detailed kinetic modeling of n-heptane combustion, 5A1231
- Detailed kinetic study of ammonia oxidation, 8A1278
- Computations of steady-state and transient premixed turbulent flames using pdf methods, 9A1315
LINDSTROM, BO: Simple concept to achieve a rational chip form, 6A577
LINEBERRY, JT: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
LINEMANN, R: Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, 4A913
LINER, CL: Analytic aspects of a 2.5D wave equation, 1A1377
LINES, LR: Analysis of higher-order, finite-difference schemes in 3D reverse-time migration, 11A1367
LING , DAOSHENG: FEM for simply supported thin polygonic plates (Chinese), 9A27
LING, CHI-HAI: Granular-flow rheology: Role of shear-rate number in transition regime, 10A1044
LING, JI: Development of an optical measuring method for spindle rotation accuracy - Measuring principle and consideration on sensitivity (Japanese), 3A728
LING, PHK: New method of measuring involute profile deviations of gear teeth, 8A807
LING, S: Nonlinear multi-domain stress analysis method for surface-mount solder joints, 12A480
LING, S-F: Identification of damping characteristics of viscoelastically damped structures using vibration test results, 11A153
LING, SF: New high-order non-uniform Timoshenko beam FE on variable two-parameter foundations for vibration analysis, 9A188
LING, ZHI-KUI: A priori geometric design of an interference free complex planar mechanism, 9A1024
- Generating the swept area of a body undergoing planar motion, 12A88
LINGE, YANG: Global attractors for the periodic initial value problem for a coupled nonlinear wave equation, 7A264
LINGENS, A: Instability of buoyant diffusion flames, 8A1253
LINGS, ML: Approximate analysis of the 3D effects of diaphragm wall installation, 2T512
- Effects of modeling soil nonlinearity and wall insulation on back-analysis of deep excavation in stiff clay, 2A526
LINGWOOD, RJ: Absolute instability of the boundary layer on a rotating disk, 2A974
- Experimental study of absolute instability of the rotating-disk boundary-layer flow, 11A985
LINKENS, DA: Hierarchical multivariable fuzzy controller for learning with genetic algorithms, 10A407
LINKOV, AM: Comparative study of stresses near crack tip for layered and homogeneous models of composite, 10A789
LINNA, J-R: Analytical scaling model for hydrocarbon emissions from fuel absorption in oil layers in spark ignition engines, 7A1312
LINSEN, J: Notched strength of thermoplastic woven fabric composites, 1A818
LINSTROM, PJ: Model based statistical process control for continuous systems, 12A418
LINTERIS, GT: Asymptotic and numerical analysis of a premixed laminar nitrogen dioxide-hydrogen flame, 2A1181
- Inhibition of premixed methane-air flames by fluoromethanes, 9A1311
LINTON, CM: Non-existence of trapped modes in acoustic waveguides, 3A274
- Multipole methods for boundary-value problems involving a sphere in a tube, 3A896
- Interaction of waves with horizonal cylinders in two-layer fluids, 6A215
LIONS, J-L: Computational approach to controllability issues for flow-related models - II: Control of 2D, linear advection-diffusion and Stokes models, 12T372
LIOR, N: Conjugate heat and mass transfer in a desiccant-airflow system: A numerical solution method, 12A1292
LIOU, GIN-SHOW: Two-dimensional elastodynamic transient analysis by QL time-domain BEM formulation, 9A277
- Effect of slab flexibility on interaction between two circular foundations, 12A1395
LIOU, JCP: Leak detection: Transient flow simulation approaches, 5A1345
LIOU, JY: Phenomena of cracks perpendicular to an interface between dissimilar orthotropic materials, 9A820
- Singularities at the tip of a crack terminating normally at an interface between two orthotropic media, 12A491
LIOU, MENG-SING: Advance in overset grid schemes: From Chimera to DRAGON grids, 3A919
- Convection treatment and pressure splitting for sequential solution procedures - Part I: Theory and 1D test cases, 6A1101
- Convection treatment and pressure splitting for sequential solution procedures - Part II: Pressure-based algorithm, 6A1102
LIOU, MING-CHUNG: Study on generating mechanism of ultrasonic tip echo reflected from the sharp tips of a flaw (Japanese), 5A673
LIOU, TONG-MIIN: Heat transfer in a rectangular channel with perforated turbulence promoters using holographic interferometry measurement, 2A1089
- Compressibility effects and mixing enhancement in turbulent free shear flows, 4A1074
LIOU, WEI-YAN: Thermal enhancement in laminar channel flow with a porous block, 10A1272
LIOU, WJ: Simulation of a bimorph transducer under acoustic excitation, 7A901
LIOU, YUAN CHANG: Algebraic grid front marching methods, 4A56
- Algebraic method using grid combination, 4A57
- Parabolic equation method of grid generation for enclosed regions, 10A47
LIOU, YUAN-CHANG: Hyperbolic equation method of grid generation for enclosed regions, 11T1084
LIPA, JA: Heat capacity of confined helium very near the lambda point, 7A302
LIPETZKY, P: Crack-particle interaction in a two-phase composite - Part II: Crack deflection, 6A658
LIPIN, EK: Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, 10T1195
LIPITAKIS, EA: Explicit sparse unsymmetric FE solver, 7A36
LIPITKAS, J: Parametric motor control: A new approach to the control of point-to-point manipulator movements, 5A374
LIPKIN, DM: Simple elastic cell model of cleavage fracture in the presence of dislocation plasticity, 9A812
LIPMAN, Y: Mixed-strategy guidance in future ship defense, 8A317
LIPPKE, F: Direct steam generation in parabolic trough solar power plants: Numerical investigation of the transients and the control of a once-through system, 7A1394
LIPPMANN, H: Asymptotic analysis of extrusion process through tapering die, 1A713
- Cosserat plasticity and plastic spin, 1A488
- Study of extrusion of sintered powder metals, 4A630
- Elastic-plastic torsion of a Cosserat-type rod, 5A447
LIPPMANN, TC: Wave energy transformation on natural profiles, 12A249
LIPPOLD, R: Acoustic absorption in ducts with an actively controlled wall admittance (German), 2A212
LIPSETT, AW: Segmental approach for large 3D rod deformations, 6A466
- Multiple 3D equilibrium solutions for cantilever beams loaded by dead tip and uniform distributed loads, 11A109
LIPTSER, RS: Deterministic approximation for stochastic control problems, 7A386
LIRA, I: Measurement of an axisymmetric temperature field by speckle photography methods, 6A1054
LISBOA, O: Thick-aluminum-coated optical fibers: Fabrication and sensor application, 11A351
LISCINSKY, DS: Crossflow mixing of noncircular jets, 8A969
LISENKOVA, EE: Motion of a body along a string under the action of an incident wave, 10A243
LISIN, AN: Comparative analysis of calculated fatigue curves of an aluminum-alloy product, carried out using various statistical theories of strength, 10A727
LISKA, M: Heat capacities of $15Na_2O{\cdot}10(MgO, CaO, TiO_2, ZrO_2){\cdot}75SiO_2$ glasses, 8A1062
LISSENDEN, CJ: Numerical modeling of damage development and viscoplasticity in metal matrix composites, 4A503
- Response of SiC-Ti under combined loading - Part III: Microstructural evaluation, 8A658
- Interfacial debonding in laminated titanium matrix composites, 11A488
LIST, R: Convective heat transfer of rotating spheres and spheroids with nonuniform surface temperatures, 8A1102
LISTER, JR: Effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions, 6A1239
- Time-dependent viscous deformation of a drop in a rapidly rotating denser fluid, 12A1091
LITOVSKY, EY: Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, 8A1247
LITT, JS: Simplified dynamic model of the T700 turboshaft engine, 6A1207
LITTLE, DA: Development requirements for an advanced gas turbine system, 5A1275
LITTLE, EG: Effect of the transverse component of the hip reaction on cement mantle stresses in a model of an implanted Exeter™ prosthesis, 11A1452
LITTLE, RE: Tensile creep and creep rupture of continuous strand mat polypropylene composites, 4A450
LITVIN, FL: Computerized determination of curvature relations and contact ellipse for conjugate surfaces, 1A941
- Computerized design of low-noise face-milled spiral bevel gears, 2A813
- Computerized design and generation of double circular-arc helical gears with low transmission errors, 4A851
LITVINCHEV, IS: Two-level decomposition-aggregation approach for large-scale optimal control problems, 4A361
LITVINOV, VG: Problem on movement of nonlinear viscous medium in axisymmetrical canals, 7A1059
LITVINOV, WG: Finite element methods for nonlinearly viscous fluids, 12A1040
LITZINGER, TA: Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling, 9A1328
LIU , BOQIANG: Dynamic mathematical model study of the plate-fin humid heat exchanger, 7A1263
LIU , FENG: Analysis of combined shells of revolution using the method of spline function (Chinese), 9T584
LIU , GENG: Study on quasi-pure probabilistic FEM (Chinese), 9A71
LIU , JINGCHANG: Navier-Stokes analysis of a circulation control airfoil, 3A894
LIU , JINMING: Zoom FFT spectrum by Fourier transform (Chinese), 3A57
LIU , K: Shear strength of polymers and fiber composites - 2: Carbon-epoxy pultrusions, 4A529
LIU , WEIQIAN: Inverse analysis method of displacements in rock engineering (Chinese), 9A687
LIU , WENTING: Probability damage tolerance evaluation method for multi-cracked structure, 7A801
- Formulation of hybrid shell element by using subregion variational principal (Chinese), 9A76
LIU , XIAOPING: Location and modification of errors in structural dynamic models (Chinese), 3A173
LIU , YUANJIE: Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), 9A109
LIU , YUANYONG: Dynamic behavior of three point bending specimen under impact loading by using FEM (Chinese), 9A798
LIU , ZHAORONG: Effects of external counterpulsation on the pulse waves in human aorta, 3A1407
LIU, AK: Ocean waves and sea ice, 2A177
LIU, ANWEI: Quality local refinement of tetrahedral meshes based on 8-subtetrahedron subdivision, 12A29
LIU, AQ: Mixed-interface substructures for dynamic analysis of flexible multibody systems, 11A78
LIU, AW: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388
LIU, B: Stress singularity near the notch tip of a rubber-like specimen under tension, 10A591
LIU, BAICHEN: Modeling and simulation of resin transfer molding: Gate control, venting, and dry spot prediction, 6A584
LIU, BENJAMIN YH: Influence of particle refractive index on the lower detection limit of light scattering aerosol counters, 12A1340
LIU, BING: Elastic-plastic analysis of a crack parallel to the interface, 8A630
LIU, BIYUE: Finite element method for the compressible Stokes equations, 10A1106
LIU, BO: Normal six-dof motions of knee joint during level walking, 11A1457
LIU, BYH: Analytical solution of flow field and pressure drop for filters with noncircular fibers, 2A935
- Optimization of pleated filter designs using a FE numerical model, 4A1018
- Comparative study of pressure reducers for aerosol sampling from high purity gases, 4A1282
LIU, C: Brazilian disk for measuring fracture toughness of orthotropic materials, 8A684

- Transonic crack growth along a bimaterial interface: An investigation of the asymptotic structure of near-tip fields, 11A693
LIU, CD: Effects of fatique precracking on stretch zone formation, 2A630
- Measurement of crack tip strains using neutron diffraction, 4A763
- Analytical solution for orthotropic composite plate containing a mode I crack along principle axis, 12A750
LIU, CH: Finite element algorithm for contact problems with friction, 8A33
- Interface cracks in a layered solid subjected to contact stresses, 12A488
LIU, CHANGHONG: Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, 6A69
LIU, CHIA-CHIN: Analysis of orthogonal finish machining using tungsten carbide and diamond tools of different heat transfer coefficients, 3A614
LIU, CHORNG-FUH: Simple FE analysis of axisymmetric vibration of annular and circular plates, 1A154
- Geometrically nonlinear axisymmetric vibrations of polar orthotropic circular plates, 6A135
- Free vibration of composite laminated plates subjected to temperature changes, 11A134
LIU, CHUN-CHANG: Design of static reactive power compensator using fuzzy sliding mode control, 8A338
LIU, CHUN-TU: Transient effect on ideally plastic stationary crack-tip fields, 6A654
- Experimental investigation on low-temperature fatigue crack propagation in offshore structural steel A131 under random sea ice loading, 6A596
LIU, CIQUN: General second order fluid flow in a pipe, 6A958
- Two-phase flow for a horizontal well penetrating a naturally fractured reservoir with edge water injection, 6A943
LIU, CR: Adaptive methodology for machine tool error correction, 5A856
LIU, CT: Acousto-ultrasonic technique applied to filled-polymer damage assessment, 5A1241
- Local fracture and crack growth behavior in a particulate composite material, 8A654
LIU, CY: Pressure and velocity fields in the wick structure of a localized heated flat plate heat pipe, 7T1268
LIU, DA-MING: Effect of canard oscillations on an X-31A: Like model in pitching maneuver, 2T1012
LIU, DAHSIN: Laminate theory based on global-local superposition, 1A618
LIU, DIANKUI: Interaction of plane SH-waves and circular cavity surfaced with lining in anisotropic media, 8A175
LIU, DING YUAN: Spanning line segments of a polyhedron, 8A829
LIU, DONGQUAN: Perforation of rigid-plastic plate by blunt missle, 2A165
- Deformation of simply supported circular plate by central pressure pulse, 3A532
- Shear and bending deformation of rigid-plastic circular plates by central pressure pulse, 9A581
LIU, E: Calibration procedures for frictional measurements with a lateral force microscope, 10A1001
LIU, F: How to determine critical Marangoni number in half floating zone convection, 11A1127
LIU, FB: Inverse analysis of transient turbulent forced convection inside parallel-plate ducts, 11T1112
LIU, FENG: Large amplitude liquid sloshing in seismically excited tanks, 12A258
LIU, G-Y: Determination of elastic constants of a concrete specimen using transient elastic waves, 3A722
LIU, GANG: Fatigue crack tip opening behavior in particulate reinforced Al-alloy composites, 5A594
LIU, GAO-LIAN: Optimization of axial-flow pump cascade solidity subject to cavitation-and separation-free constraints, 6A1031
- Unified variable-domain variational theory of hybrid problems for compressible S_2-flow in mixed-flow turbomachinery, 6A1032
LIU, GENG: Pseudo element method for solving matrix with elementary operation and its application, 1A905
- Exergy analysis of a solar heating system, 3A1375
LIU, GR: Exact method for analyzing elastodynamic response of anisotropic laminates to line loads, 1A570
- Strip element method to analyze wave scattering by cracks in anisotropic laminated plates, 5A177
- Scattering of SH waves by flaws in sandwich plates and its use in flaw detection, 11A711
- Detection of flaws in sandwich plates, 12A792
LIU, GT: Harmonic thermal fracture of multiple crack system and the stability of cracks in RCC arch dam, 12A1285
LIU, GUANG TING: Spectral stochastic FE analysis of periodic random thermal creep stress in concrete, 12A508
LIU, GUANG-JUN: Asymptotically stable robust control of robust manipulators, 11A389
LIU, GUI-RONG: Strip element method for characterization of flaws in sandwich plates, 3A745
LIU, H: Tilt of stationary capsule in pipe, 6T942
LIU, HAIYAN: Modeling of microfracture-induced wear and wear transition in sliding of polycrystalline alumina ceramics, 12A907
LIU, HAN-BING: Statistics of eigensolutions for systems with random shape parameters using BEM, 10A55
LIU, HANBING: Shakedown analysis of elasto-plastic structures subjected to external loading and temperature variation, 4A786
LIU, HANCHI: Stress-strain field near crack tip and calculation of critical stress of crack propagation in a pure bending beam of rectangular section with one-sided mode I crack, 4A715
LIU, HANLI: Application of computation of exponential of a matrix in heat transfer (Chinese), 8A1172
LIU, HH: Two approaches to modeling unstable flow and mixing of variable density fluids in porous media, 11A1326
LIU, HONG-QIU: Meso-elastoplastic constitutive equation with application to deformation-induced anisotropy of a polycrystalline aggregate, 9A504
LIU, HONGZHAO: Finite dynamic element analysis for high-speed flexible linkage mechanisms, 12A967
LIU, HS: Detection of tool failure in end milling, 10A448
- Monitoring of drill fracture from the current measurement of a three-phase induction motor, 10A999
LIU, HSI-PING: Application of bandlimited anelastic models to wave propagation in highly attenuative media, 3A1308
- Improved air-powered impulsive shear-wave source, 11A1387
- Site amplification at five locations in San Francisco, California: A comparison of S waves, codas, and microtremors, 12A1386
LIU, HSIEN-TA: Energetics of grid turbulence in a stably stratified fluid, 1A1083
LIU, I-SHIH: Vanishing relaxation limit of viscoelasticity, 11A437
LIU, INE-WEI: Element for static, vibration, and buckling analysis of thick laminated plates, 10A620
LIU, J: Studies of thermokinetics in an adiabatic calorimeter - I: Design and testing of an adiabatic automatic calorimeter, 6A1065
- E-ε modeling of turbulent air flow downwind of a model forest edge, 8T1362
- High-temperature deformation measurements using digital-image correlation, 10A847
LIU, JB: Structural response of counterflow diffusion flames to strain rate variations, 1A1320
- Scalar structure of nonequidiffusive premixed flames in counterflow, 12A1303
LIU, JIA-HONG: Analysis of die designs for the stamping of an automobile rear floor panel, 7A728
LIU, JIA-JUN: Study of wear resistance of a new brush-plated alloy Ni-Fe-W-S, 10A974
LIU, JIAJUN: Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, 12A930
LIU, JIAN: Numerical study of turbulent structure over stip roughness in open channel flow using a low Reynolds number turbulence model, 3A881
- Geomstrical properties of some constraint ruled surfaces for spatial mechanisms (Chinese), 7A1020
- Development of pressure-based composite multigrid methods for complex fluid flows, 11A902
LIU, JIAN-GUO: Convergence of vortex methods for weak solutions to the 2D Euler equations with vortex sheet data, 2A892
- Vorticity boundary condition and related issues for finite difference schemes, 9T91
- Essentially compact schemes for unsteady viscous incompressible flows, 11A890
LIU, JIANCHENG: Characterization of cut and ground surface (Japanese), 5T568
- Calculation of the fractal dimensions of machined surface profiles, 10A989
LIU, JIAQI: Two dimensional acoustic wave equation inversion combining plane-wave seismograms with well logs, 11A1359
LIU, JIE: Invariant manifolds and their stability in a 3D measure-preserving mapping systems, 6A86
LIU, JIKE: New procedure for orthogonalization of measured modes considering structural symmetry (Chinese), 4T207
- Lower order critical operating speeds indentification for flexible linkage mechanisms (Chinese), 10A84
LIU, JIMING: Spatial reasoning about robot complaint movements and optimal paths in qualitatively modeled environments, 8A359
- Method of qualitative spatial envisionment with applications to planar mechanism configuration modeling and planning, 11A399
LIU, JING-SIN: P-type iterative learning controller for robust output tracking of nonlinear time-varying systems, 11T297
LIU, JINNING: Flat-end cutter path generation for a sculptured surface for 3-axes NC machining, 10A712
LIU, JINYI: Principle and applications of undoing in solid modeling (Chinese), 8A828
LIU, JINYUAN: Solutions for a class of equations occurring in research of arc column instability (Chinese), 8A847
LIU, JJ: Modeling and analysis of acoustic emission in diamond turning, 11A597
LIU, JJF: Spaceflight Mechanics 1995, Part I and II - Advances in the Astronautical Sciences, Vol 89, 3N9
LIU, JS: Stress analyses of solids with rectangular holes by 3D special hybrid stress elements, 8A47
LIU, JUN: Stability analysis on Beck's procedure for inverse heat conduction problems, 6T48
- Analysis and simulation expert system of planar link mechanism based on variational geometry (Chinese), 8A340
- Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), 8A827
LIU, JY: Infrared sensing for on-line weld geometry monitoring and control, 5A385
LIU, K: Shear strength of polymers and fiber composites - I: Thermoplastic and thermoset polymers, 4A528
- Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, 10A1331
LIU, KAISHIN: Transient torsional waves in stepped circular bars: Two-dimensional numerical analysis and its experimental verification, 7A221
- Numerical analysis of 3D thermoelastic stress wave propagation problem, 12A1283
LIU, KAIXIN: Animate simulation for coaxial collision of two bars (Chinese), 8A185
LIU, KE: Nonlinear standing waves: Theory and experiments, 3A244
LIU, KETAO: Frequency domain structural system identification by observability range space extraction, 12A326
LIU, KJ: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
LIU, KO-FEI: Tide-induced ground-water flow in deep confined aquifer, 6A1226
LIU, LIN: Existence of formal integrals of symplectic integrators, 10A332
LIU, LZ: Dynamics and stability of a freely processing spacecraft containing a nutation damper, 8A235
LIU, MABAO: Forming limit during superplastic deformation of sheet metals, 9A702
- Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, 12A672
LIU, MAN: Symmetrization of equations of motion for coupled systems subject to fluid-structural interactions, 3A228
- Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - II: Empirical modal analysis, 10A312
- Predictions of the vibratory characteristics of cylindrical structures with presence of single-phase flow - I: Theoretical study, 10A311
LIU, MING HUANG: Analysis of the friction and wear mechanisms of structural ceramic coatings - Part I: The effect of processing conditions, 12A876
LIU, MING-YEN: Influence of temperature on the drift of Gyroscope, 6A95
LIU, ML: Vibration analysis of structures by hybrid strain-based three-node flat triangular shell elements, 1A169
LIU, NAN-SUEY: Least-squares FEM for low-Mach-number compressible viscous flows, 4A997
LIU, NING: Spectral stochastic FE analysis of periodic random thermal creep stress in concrete, 12A508
LIU, P: Sliding wear behavior of deformation-processed cu-15vol%Cr in situ composites, 12A911
LIU, PEI-LING: Parametric identification of truss structures by using transient response, 9A207
- Direct identification of non-uniform beams using static strains, 11A499
LIU, PEIDE: Stress distribution caused by force with saw (Chinese), 9A605
LIU, PJ: Properties of an interconnected hydropneumatic suspension system, 6A162
LIU, PL-F: Mass transport of interfacial waves in a two-layer fluid system, 2A183
- Operator-splitting algorithm for the 3D diffusion equation, 3A1125
- Operator splitting algorithm for coupled 1D advection-diffusion-reaction equations, 4A1249
- Runup of solitary waves on a circular island, 4A261
LIU, Q: Calorimeter measurements of a heat pump dehumidifier: Influence of evaporator air flow, 3A1159
LIU, QIAOLING: Reliability analysis of single-dof nonlincar systems with random parameters (Chinese), 6A105
- Stochastic perturbation FEs, 8A46
LIU, QING-HUO: Three-dimensional Green's function for elastic waves in multilayer cylindrical structures, 3A185
LIU, QIUSHENG: Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, 10A36
LIU, RUNJIE: Experimental study of axial heat conduction of oscillating tube's wall (Chinese), 8A1160
LIU, S: Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, 5T943
- Designing shielded metal arc consumables for underwater wet welding in offshore applications, 5A859
- Exact structural reanalysis by a first-order reduced basis approach, 6A715
- Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, 11A834
LIU, SB: Three-dimensional contact mechanics analysis of crack problems using the BEM, 3A428
LIU, SC: Offset FE model and its applications in predicting sheet metal assembly variation, 1A718
- Tolerance analysis for sheet metal assemblies, 8A825
LIU, SHENG: Effective moduli of unidirectional fiber composites containing radial cracking and interfacial debonding, 4A514
LIU, SHIHE: Interaction of turbulent coherent structures and small-scale structures, 8A214
LIU, SHIPING: Analysis of bivariate censored low flows, 6T887
LIU, SHUTAIN: Homogenization-based method for predicting thermal expansion coefficients of composite materials (Chinese), 8A1234
LIU, T: Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, 3A1076
- Dynamic pulse buckling of cylindrical shells subjected to external impulsive loading, 7A677
- Dynamic response of a half-space to radial shear surface loadings, 8A186
LIU, TA-JO: Comparison of three solvers for viscoelastic fluid flow problems, 4A18
LIU, TAI-KANG: Effect of fluorinated graphite on combustion of boron and boron-based fuel-rich propellants, 6A1204
LIU, TCH: Finite element modeling of behaviors of steel beams and connections in fire, 7A14
LIU, TF: Study on ignition criterion of a large carbon-char particle, 5A1212
LIU, TIANQING: Comprehensive evaluation and prediction and enhancement of boiling heat transfer with additives (Chinese), 8A1123
LIU, TIEQIANG: Generalized probabilistic perturbation method for static analysis, 4A801
- Stochastic perturbation FEs, 8A46
LIU, VINCENT XIAOSONG: Unstable and neutral spectra of incompressible inviscid and viscid fluids on the 2D torus, 1A1069
LIU, W: General mathematical modeling for heat and mass transfer in unsaturated porous media: An application to free evaporative cooling, 6A1111
LIU, WEI: Literature survey on numerical heat transfer: 1992-1993, 10A1273
LIU, WEI-FENG: Approximate reliability analysis of wood structural systems, 2A740
LIU, WEI-MIN: Tribological characteristics of JS material under lubrication of oil, 12A898
LIU, WEIMIN: Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, 10A1233
- Effects of diol compounds on the friction and wear of aluminum alloy in a lubricated aluminum-on-steel contact, 11A803
- Tribological properties and lubricating mechanisms of the rare earth complex as a grease additive, 12A1196
- Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, 12A886
LIU, WENXIONG: Optimal control of the blowup time, 7T382
LIU, WH: Flow developments above 50-deg sweep delta wings with different leading-edge profiles, 1A1102
LIU, WING KAM: Cast filling simulations of thin-walled cavities, 5A580
- Three reliability methods for fatigue crack growth, 8A606
LIU, WK: Overview and applications of the reproducing Kernel Particle methods, 9A22
LIU, X: Comparative analysss concerning integrity of a VVER-440 reactor pressure vessel, 3A1358
LIU, XIANGJIAN: Iterative computation method for nonlinear forced vibration equation on helicopter main rotor load, 6A155
LIU, XIANLIANG: Semi-analytic method for hydraulic computation of surge chambers (Chinese), 8A203
LIU, XIAOBE: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820
LIU, XIAOJIAN: Investigation of the accuracy of the solution of the constrained substructuring method, 5A170
- Dominant mode method for the minimum time design of slewing flexible structures, 10A922
LIU, XIAOPING: Modification of dynamic model of mechanical structures based on fuzzy optimization knowledge (Chinese), 4A101
LIU, XIAOQIANG: Study of the solid modeling techniques adaptive to product modeling, 6T372
LIU, XIJUN: Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, 10A309
LIU, XINGZHI: Failure analysis of a gas turbine from a generating set, 9A768
LIU, XINGZHOU: Elasticity of partially saturated frozen sand, 6A536
LIU, XINZHI: Impulsive control and optimization, 2A255

LIU, XIPING: Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, 9A105
LIU, XISHENG: Study on steady surge pressure for yield-pseudoplastic fluid in a concentric annulus, 9A1039
LIU, XQ: Vibration of a free-free beam under tensile axial loads, 7T146
LIU, XU-DONG: Nonoscillatory high order accurate self-similar maximum principle satisfying shock capturing schemes I, 10A298
LIU, Y: Mesh-dependence in local approach to creep fracture, 1A770
LIU, Y-N: Dynamic FE analysis of a nonlinear beam subjected to a moving load, 9A566
LIU, YAN: Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), 7A796
- Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), 9A826
LIU, YB: Internal resonance of an L-shaped beam with a limit stop - Part II: Forced vibration, 12A153
- Internal resonance of an L-shaped beam with a limit stop - Part I: Free vibration, 12A152
LIU, YC: Vibration control experiment of a slewing flexible beam, 5A335
- Influence of surface oxidation on the wear resistance of cast iron, 6T820
- Rule-based control of weld bead width in pulsed gas tungsten arc welding, 7A1031
- Frequency domain control of single input-single output distributed parameter systems, 11T293
LIU, YEHOU: FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), 6A10
LIU, YH: Auto-processing of very fine-scale composite materials by chaotic mixing of melts, 4A649
LIU, YIN-ZHONG: Slow drift damping force acting on a cylinder in waves, 6T217
LIU, YJ: Active vibration control of smart composites featuring electro-rheological fluids, 2A118
- Two-dimensional cusp at the trailing edge of an air bubble rising in a viscoelastic liquid, 6A946
LIU, YONG: Equilibrium plasma subject to skin effect, 1A1091
- Active robust H^{∞} control for vibration of rotor system by controlled squeeze film damper bearing (Chinese), 10T222
LIU, YONGNING: Crack rotation factor and dynamic fracture measurement, 4A761
LIU, YUAN: Behavior of extensional modes in a thin rod immersed in a viscous medium, 7A286
LIU, YUJUN: Approximate calculation of contraction of formed camber (Chinese), 8A550
LIU, YULAN: Statistical mechanics model of phase transformation of zirconia particles in ceramics, 7A550
LIU, YULU: Mechanism of turbulent coherent structure - II: A physical model of coherent structure for the rough boundary layer, 11A994
LIU, YUMING: Time dependence of the wave resistance of a body accelerating from rest, 9A290
LIU, Z: Nonlinear oscillations and chaotic motions in a road vehicle system with driver steering control, 7A110
- Return mapping algorithm for plane stress and degenerated shell plasticity, 8A37
LIU, Z-Y: Note on the equations of a thermoelastic plate, 2A1154
LIU, ZHANFANG: Growth and decay of acceleration waves in incompressible saturated poroelastic solids, 12A225
LIU, ZHANGFANG: Propagation of acceleration waves in incompressible saturated porous solids, 4A1297
LIU, ZHENGBAI: Modeling fuel spray impingement and heat transfer between spray and wall in direct injection diesel engines, 4A1142
LIU, ZHONG-SHENG: New method for deriving eigenvalue rate with respect to support location, 9T189
LIU, ZHONG-SHENG: Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, 11A137
LIU, ZHUANGYI: Exponential stability of linear viscoelasticity and thermoviscoelasticity, 7A519
LIU, ZUOMIN: Influence of TiC, CaF_2 and MnS additives on friction and lubrication of sintered high speed steels at elevated temperature, 11A811
LIUG , QIUSHENG: Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, 3A21
LIUTKEVICIUS, M: Creep simulation of polymer matrix-dispersed filler composites (Russian), 8A409
LIVESAY, GA: Single integral finite strain viscoelastic model of ligaments and tendons, 11A1459
LIVIGNI, DJ: Thermal modeling and analysis of laser calorimeters, 10A1244
LIVNE, E: Analytic sensitivity and approximation of skin buckling constraints in wing-shape synthesis, 2A1009
- Digital adaptive flutter suppression and simulation using approximate transonic aerodynamics, 3A221
LIVNEH, R: Improved literal approximation for lateral-directional dynamics of rigid aircraft, 1T85
- Unified lateral approximations for longitudinal dynamics of flexible flight vehicles, 3T381
LIVRAMENTO, MA: Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, 3A43
LIVSHITS , DS: Pre- and postbuckling behavior of mechanical structures in terms of phase transitions, 2A485
LIVSTONE, M: Calculation of discrete-time process noise statistics for hybrid continuous and discrete-time applications, 11A270
LIVSTONE, MM: Asymptotic properties of set membership identification algorithms, 10T395
LJUNG, L: Overtraining, regularization and searching for a minimum, with application to neural networks, 5T345
LJUS, C: Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, 9A1249
LL'INSKII, NB: Aero- and gas dynamics of flight vehicles and their engines: A technique of aerodynamic design of surface effect vehicle airfoil, 8A1014
LLAMAS, J: Semi-arid zones and their hydrological modeling: Rainfall-runoff (Spanish), 4T1340
LLANOS, H: Semi-arid zones and their hydrological modeling: Rainfall-runoff (Spanish), 4T1340
LLIBRE, J: Global flow of the hyperbolic restricted three-body problem, 3A229
- Global first harmonic bifurcation diagram for odd piecewise linear control systems, 10A104
LLORCA, J: Influence of reinforcement fracture on the cyclic stress-strain curve of metal-matrix composites, 3A696
- Wear of SiC-reinforced Al-matrix composites in the temperature range 20-200° C, 12A921
LLORENTE, JI: Low frequency vibrations in disc brakes at high car speed - Part I: Experimental approach, 2A131
LLOYD, DJ: Hardening laws, surface roughness, and biaxial tensile limit strains of sheet aluminum alloys, 4A460
- Effects of particle morphology and spacing on the strain fields in a plastically deforming matrix, 6A416
LLOYD, PM: Unsteady surface-velocity field measurement using particle tracking velocimetry, 2A1064
LLOYD, RM: Numerical simulation of measured transient heat transfer through a concrete ground floor slab and underlying substrata, 3A1110
LLOYD, S: Adaptive control of robot manipulators including motor dynamics, 2A306
LO , KW: Unified model for fracture mechanics, 10A767
LO PRESTI, DCF: Anisotropy of small strain stiffness in Ticino sand, 9A659
LO, CF: Wall temperature effects on the stability of laminar boundary layers, 2T953
LO, CHIH-HAO: Application of real-time error compensation on a turning center, 2A538
LO, CHIHSIUNG: Global feasible search for global design optimization with application to generalized polynomial models, 5A848
- Convex cutting plane algorithm for global solution of generalized polynomial optimal design models, 8A831
- Deterministic global design optimization method for nonconvex generalized polynomial problems, 8A832
LO, KUEIMING: Robustness of adaptive control for stochastic systems, 12T322
LO, KW: Effect of acoustic excitation on flow over a partially grooved circular cylinder, 1A1060
- Building response due to subway train traffic, 3A149
LO, SCR: Strain softening and shear band formation of sand in multi-axial testing, 9T661
LO, SH: Fast Delaunay triangulation in 3Dx, 5A40
- Finite element mesh generation over analytical curved surfaces, 8A34
LO, SHIH-CHE: Smooth sliding-mode control for spacecraft attitude tracking maneuvers, 4A300
LO, SHIP PENG: Study of orthogonal cutting with tool flank wear and sticking behavior on the chip-tool interface, 3A625
LO, SNG: Effect of occupancy patterns on the long-term performance of roof-space solar-energy collectors on domestic dwellings in a Northern European climate, 8A1379
LO, WK: Equivalent systems for variable thickness circular plates, 5A503
LO, YL: Study of the optomechanical response of a diametrically loaded high-birefringent optical fiber, 7A886
LOBAS, LG: Divergent bifurcations in dynamic systems with rolling, 7A95
- Movement stability of transport vehicles with regard for vibrations of control wheel module (Russian), 7A96
- Dynamical behavior of a two-member system with rolling at critical and nearly critical velocities, 7A85
LOBKIS, IO: Precision ultrasonic reflection studies in fluid-coupled plates, 10A357
LOBKIS, OI: Air-coupled ultrasonic characterization of composite plates, 2A695
- Spherical inclusion characterization by the acoustical microscope: Axisymmetric case, 6A248
LOCATELLI, C: Surface mechanomyogram reflects muscle fibers twitches summation, 8T1442
LOCK, GD: Heat transfer measurements in an annular cascade of transonic gas turbine blades using the transient liquid crystal technique, 5A1080
- Endwall heat transfer measurements in an annular cascade of nozzle guide vanes at engine representative Reynolds and Mach numbers, 11A1063
LOCK, GSH: Numerical analysis of heat transfer in an air-filled bayonet tube under laminar conditions, 5A1129
- Laminar-turbulent transition in a bayonet tube, 11A958
LOCKE , RJ: OH imaging in a lean burning high-pressure combustor, 8T1259
LOCKE, J: Nonlinear random response of antisymmetric angle-ply laminates under thermal-acoustic loading, 2A120
LOCKE, NJ: Lift and drag distributions of yacht sails using wake surveys, 12A1164
LOCKNER, D: Two-stage model of fracture of rocks, 10A695
LOCKWOOD, FC: Parametric study of a carbon black oil furnace, 1A1331
- Detailed kinetic study of ammonia oxidation, 8A1278
LOCURCIO, A: Influence of reinforcing layer orientation on impact response of plain weave RTM composites, 4A499
LODGE, AS: On-line measurement of elasticity and viscosity in flowing polymeric liquids, 10A1055
LODYGOWSKI, T: Avoiding of spurious mesh sensitivity in numerical analysis of plastic strain localization, 3A476
LOELLBACH, J: Flow analyses in a single-stage propulsion pump, 11A1073
LOFDAHL, L: Fast simple hot-wire method of determining the mean velocity vector of complex 3D flows, 9A1249
LOFFREDO, MI: Eulerian versus Lagrangian variational principles in stochastic mechanics, 11A65
LOFTUS, M: Adaptive and compensation methods in free-form surface assessment, 10A870
LOGAN , D: Using the correlation dimension for vibration fault diagnosis of rolling element bearings - I: Basic concepts, 12A963
LOGAN, BE: Scaling bacterial filtration rates in different sized porous media, 10A1126
LOGAN, DB: Using the correlation dimension for vibration fault diagnosis of rolling element bearings - II: Selection of experimental parameters, 12A964
LOGAN, JD: Convection-diffusion equation with periodic boundary conditions, 2A1162
- Time-periodic transport in heterogeneous porous media, 7A1360
LOGEMANN, H: Conditions for robustness and nonrobustness of the stability of feedback systems with respect to small delays in the feedback loop, 8T263
LOGHMAN, A: Creep damage simulation of thick-walled tubes using the θ projection concept, 8A406
LOGINOV, BV: Capillary-gravity waves over a flat surface, 10A292
LOGINOV, VM: Simple mathematical tool for statistical description of dynamical systems under random actions - I, 9A14
LOGO, J: Identification of bilinear material models of nonlinear beams on nonlinear foundation, 10A600
LOH, C-H: Effectiveness of active tuned mass damper and seismic isolation on vibration control of multi-story building, 12A1406
LOH, CHIN-HSIUNG: Application of off-line and on-line identification techniques to building seismic response data, 8A1346
- Control of seismically excited building structures using variable damper systems, 8A1336
- Analysis of nonlinear system using Narma models, 11A161
LOHAR, FA: Optimal atmospheric trajectory for aerogravity assist with heat constraint, 1T397
LOHMANN, G: Stability of the thermohaline circulation in a simple coupled model, 12A1412
LOHNER, R: Parallel implicit incompressible flow solver using unstructured meshes, 8A911
- Load balancing algorithm for unstructured grids, 9T127
- Dusty shock flow with unstructured adaptive FEs and parcels, 10T15
LOHSE, D: Viscous subrange determines inertial range properties in turbulence shell models, 4A1088
LOIA, MA: Planar-tensile representation of edge debonding in patch panels under pressure, 7A1038
LOIACONO, ML: Modeling methane cool flames and ignitions, 3A1237
LOITSYANSKIY, LG: Mechanics of Liquids and Gases, Sixth Augmented Edition, 10N29
LOKSHIN, AA: New generalization of the Cagniard-De Hoop method for absorbing media, 3A184
- Increase of the simple wave maximum amplitude in active media, 10A250
LOMAKIN, EV: Plastic bending of notched strips made of materials whose properties depend on the type of stress state, 10T535
LOMAX, TL: Structural Loads Analysis Theory and Practice for Commercial Aircraft, 8N29
LOMBARDI, G: Canard tip vortex splitting in a canard-wing configuration: Experimental observations, 1T1099
LOMNITZ, C: Search of a worldwide catalog for earthquakes triggered at intermediate distances, 11A1352
LOMOV, SB: Use of aramide filaments (SVM) in the structure of bicomponent threads, 6A433
LOMOV, SV: Software package for the prediction of woven fabrics' geometrical and mechanical properties, 6T430
LONG , JINMING: Investigation of the corrosive wear of stainless steels in aqueous slurries, 11A645
LONG , LIANCHUN: Problems of the elliptical holes or cracks in orthotropic plates (Chinese), 9A804
LONG LU, MU: Study on wear behavior of low Cr steel under the effect of impact loading, 12A913
LONG, CA: Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, 5A1140
- Review of forced convective heat transfer in stationary and rotating annuli, 11A1115
LONG, JH: Analytical model of progressive slope failure in waste containment systems, 6A543
LONG, LN: New efficient algorithm for computational aeroacoustics on parallel processors, 9T385
- Computation of sound radiating from engine inlets, 10A375
LONG, MB: Method for contour-aligned smoothing of joint 2D scalar images in turbulent flames, 5T1220
LONG, WENYI: Designing reinforced concrete short-tied columns using the optimization technique, 3A796
LONG, YT: Actuation of sloshing modulated force and moment on liquid container driven by jitter accelerations associated with slew motion in microgravity, 6A206
- Response of lateral impulse on liquid helium sloshing with baffle effect in microgravity, 12A259
LONG, YUFENG: Performance quality and tolerance sensitivity of mechanisms, 8A358
LONGBOTTOM, AW: Linear magnetoconvection in a rotating spherical shell, incorporating a finitely conducting inner core, 7T1140
LONGCOPE, DB: Penetration into ductile metal targets with ridid spherical-nose rods, 2A167
LONGLEY, JP: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
LONGMAN, RW: Liapunov stability of force-controlled grasps with a multi-fingered hand, 8A353
LONGMIRE, EK: Particle motion in the stagnation zone of an impinging air jet, 2A923
- Dynamics of experimentally simulated microbursts, 4A985
- Interpretation of PIV autocorrelation measurements in complex particle-laden flows, 8A938
- Development and structure of a gravity current head, 10A1074
LONGMORE, DK: Magnitude of the losses in the steel pushing V-belt continuously variable transmission, 7A1008
LONGO, GA: New HVAC system based on cogeneration by an ic engine, 11A1233
- Comparison of heat recovery systems in public indoor swimming pools, 11A1227
LONGO, JMA: Numerical analysis of the vortical flow around a delta wing-canard configuration, 1A1104
- Flap efficiency and heating of a winged re-entry vehicle, 10A316
LONGORIA, RG: Methodology for modeling lift as a modulated process, 8A215
LONGTIN, JP: Pulsed laser heating of highly absorbing particles, 3T1140
- Temperature measurement during high-intensity laser-liquid interactions, 8A1122
LONGUEMARD, JP: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766
- Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A768
LONGUET-HIGGINS, MS: Parasitic capillary waves: A direct calculation, 4A270
- Surface manifestations of turbulent flow, 8A893
- Asymptotic theory for the almost-highest solitary wave, 12A240
LONGUSKI, JM: Aerocapture with a flexible tether, 4T369
- Analytic solution of Euler's equations of motion for an asymmetric rigid body, 9A136
LONGWELL, JP: Coal: Energy for the future, 6T1203
LONNES, S: Uncertainty in calculating vorticity from 2D velocity fields using circulation and least-squares approaches, 5A1117
LOOI, HC: Influence of thermal and microwave processing on the mechanical and interfacial properties of a glass-epoxy composite, 2A437
LOOK JR, DC: Fin on a pipe (insulated tip): Minimum conditions for fin to be beneficial, 4A1220
LOOS, AC: Environmental effects on stitched RTM textile composites, 10A585
LOOZE, DP: Linear quadratic regulator loop shaping for high frequency compensation, 11A283

LOPANITSYN, EA: Nonlinear behavior of thin elastic plates, 12T165
LOPARO, K: Configuration space of a body moving on a surface and the kinematics of rolling, 12A89
LOPATIN, AV: Transverse vibrations of a cantilever composite cylindrical shell with ring-shaped stiffening ribs, 5A138
LOPATINSKAIA, E: Monitoring varying speed machinery vibrations - I: The use of non-stationary recursive filters, 5A161
- Monitoring varying speed machinery vibrations - II: Recursive filters and angle domain, 5A162
LOPEZ , W: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769
LOPEZ DE LACALLE, LN: Applications of dynamic measurements to structural reliability updating, 9A900
LOPEZ JR, RG: Stress-strain properties of coir fiber reinforced cement composite in axial compression, 1A547
LOPEZ, CW: Economic performance of the SCE Stirling dish, 3A1364
LOPEZ, F: Turbulent coherent structures in the near wall region of open channel flows, 10T1056
LOPEZ-ALMANSA, F: Optimal sensor location in active control of flexible structures, 9T897
LOPEZ-ANIDO, R: Warping solution for shear lag in thin-walled orthotropic composite beams, 10A590
LOPEZ-DIEZ, J: Rapid method for spacecraft sizing, 2A799
LOPEZ-M, PG: Natural convection in a rotating fluid layer with deformable free surface, 3T1043
LOPEZ-REBOLLAL, O: Generic, hard transition to chaos, 6A101
LORA-TAMAYO, E: Surface micromachining technology applied to the fabrication of a FET pressure sensor, 10A471
LORAUD, J-C: Solid-propellant fire in an enclosure fitted with a ceiling safety-vent, 4A1262
LORAUD, JC: Effects on the injection of droplets on a stationary shock wave in a nozzle (French), 1A1037
- Droplet break-up through an oblique shock wave, 7A282
LORBER, AA: Vector-parallel scheme for Navier-Stokes computations at multi-Gigaflop performance rates, 2A61
LORD, G: Rarefied Gas Dynamics 19, Vol 1 and 2, 5N26
LORD, M: Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, 4A1372
- Time-dependent behavior of a force-sensitive resistor plantar pressure measurement insole, 12A1481
LORD, W: Transient fields of pulsed transducers in solids, 6A708
- Numerical analysis of the radiated fields of ultrasonic transducers, 8A698
LORDET, F: Dissociation rate constants in nonequilibrium flows, 4T994
LOREN, GJ: Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
LORENCE, CB: Sensitivity analysis of unsteady aerodynamic loads in cascades, 2A1037
LORENTZEN, B: Waste-heat recovery in batch processes using heat storage, 1A1436
LORENZ, S: Permanent 3D patterns in turbulent flows with essentially 2D wall configurations, 4A1145
LORET, B: Scale dependent constitutive relations: Information from wavelet analysis and application to localization problems, 4A3
LORIA, A: Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, 12T376
LORRAIN, M: Pull-out strength of bars embedded in high performance concrete (French), 5A711
- Influence of geometrical tolerances on reliabilty of columns (French), 7A654
LOSADA, IJ: Experimental study of wave-induced flow in a porous structure, 5T202
LOSADA, MA: Experimental study of wave-induced flow in a porous structure, 5T202
LOSAKIEWICZ, AC: Correlations between short-period fluctuations of the Maxwellian current at Hornsund (Spitsbergen) and Jozefoslaw (Poland), 9A1401
LOSETH, R: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
LOSKIEWICZ, J: Using artificial neural networks to assist in the interpretation of geophysical data, 9A1382
LOTH, E: Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer, 7A1195
- Free shear-layer interaction with an expansion-compression wave pair, 8A966
- Dusty shock flow with unstructured adaptive FEs and parcels, 10T15
- Effects of initial conditions on spatially evolving compressible shear layer simulations, 12T1075
LOTH, JL: Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
LOTSTEDT, P: Accuracy of a propeller model in inviscid flow, 5A1067
LOTZ, RD: Sailplane carry-through structures made with composite materials, 11A795
LOU , ZHIWEN: Automatic mesh generating algorithm and its application for arbitrary multiply connected regions (Chinese), 9A49
LOU, ANMIN: Analytical variational method of solution for stress concentration factors of finite plates with a pin hole, 10A516
LOU, JYK: Alternating frequency-coefficient technique in the trigonometric collocation method, 12A106
- Alternating frequency-coefficient technique in the harmonic balance method, 12A105
LOU, KY: Inverse and optimal control for precision acrobatic maneuvers, 8A1013
LOU, ZJ: Simulation of the viscoplastic forming process by the FEM, 7A24
LOU, ZW: Yield function for porous ductile materials, 8A636
- Experimental investigation of fatigue behavior for welded joints with mechanical heterogeneity, 10A737
LOUCA, LA: Torsional buckling of outstands in longitudinally stiffened panels, 5A535
- Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, 10A9
LOUCH, DS: Different physical interpretation of flame sheet surface density, 5A1250
LOUCHEZ, PR: Introductory analysis of boundary-layer development on de-anti-icing fluid, 7A1170
LOUCHEZ, S: Ice shedding from cables, 3A1394
LOUCKS, EP: Perspective theory for motion and shape estimation in machine vision, 2A287
LOUIS JOSEPH DOGUE, I: Improvement of polypropylene film adhesion in multilayers by various chemical surface modifications, 7A1036
LOUIS, E: Abrasive wear resistance of aluminum alloy-ceramic particluate composites, 10A969
LOULA, AFD: Higher-order gradient post-processings for second-order elliptic problems, 5A27
- Asymptotic behavior of semidiscrete FE approximations of Biot's consolidation problem, 12A1350
LOURENCO, LM: Instantaneous velocity measurements in laminar and turbulent premixed flames using on-line PIV, 3A1210
LOURENCO, PB: Two approaches for the analysis of masonry structures: Micro and macro-modeling, 11A765
LOUTE, E: Modeling the inelastic interphase in unidirectional composites, 4T533
LOUVET, Y: Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, 8A1054
LOUW, K: Fatigue cracking of type 304 sheet in pasteurizer water, 4A671
LOVE, RH: Low-frequency acoustic scattering model for small schools of fish, 6A243
LOVEDAY, DL: Convective heat transfer coefficients at a plane surface on a full-scale building facade, 8A1118
- Surface convection coefficients for building facades with vertical mullion-type protrusions, 10A1316
LOVEDAY, PW: Coupled electromechanical model of an imperfect piezoelectric vibrating cylinder gyroscope, 9A183
LOVEGROVE, K: Endothermic reactors for an ammonia based thermochemical solar energy storage and transport system, 11A1433
LOVEJOY, AE: Free vibration of thick generally laminated cantilever quadrilateral plates, 12A178
LOVELL, MR: Finite element analysis of the frictional forces between a cylindrical bearing element and MoS_2 coated and uncoated surfaces, 12A883
LOVELL, SP: Improvement of the accuracy of a PUMA 560 industrial manipulator by calibration, 7A463
LOVVIK, OM: Model calculations on a flat-plate solar heat collector with integrated solar cells, 5A1349
LOW, KH: Experimental motion analysis of radially rotating beams using high-speed camera and motion analyzer, 12A197
LOW, KK: Experimental motion analysis of radially rotating beams using high-speed camera and motion analyzer, 12A197
LOW, RE: Performance of novel compact heat exchangers with highly extended surfaces, 6A1146
LOW, TS: Modeling of a three-layer piezoelectric bimorph beam with hysteresis, 5A353
LOWDEN, RA: Ceramic Matrix Composites: Advanced High-Temperature Structural Materials, Vol 365 - Proc of 1994 Mat Res Soc Fall Meeting, Boston MA, 7N12
LOWE, TW: Computation of Stokes flow in a channel with a collapsible segment, 5A941
LOWET, G: Study of the vibrational behavior of a healing tibia using FE modeling, 12A1453
LOWNEY, KD: Flow through a submerged nozzle, 5A945
LOWRY, JA: Friction and wear studies of various head materials and magnetic tapes in a linear mode accelerated test using a new nano-scratch wear measurement technique, 5A813
LOWRY, JT: Analytic V speeds from linearized propeller polar, 7T1180
LOWSON, MV: Vortex breakdown control by delta wing geometry, 1A1106
- Focusing of helicopter BVI noise, 8A243
LOY , CT: Analysis of rotating laminated cylindrical shells by different thin shell theories, 2A108
LOY, CT: Effects of boundary conditions on frequencies of a multi-layered cylindrical shell, 6A142
- Vibrations of rotating thin cylindrical panels, 6A145
LOZAC'H, Y: Design methodology for a multifunctional hand prosthesis, 6A1372
LOZHKIN, AL: Study of internal heat transfer in nonuniform porous structures, 10T1423
LOZINO-LOZINSKII, GE: Comparative analysis of reusable space transportation systems, 7T989
LOZINSKI, D: Elementary discussion of forward smoldering, 8A1249
LOZOWSKI, EP: Influence of the surface liquid film on cylinder icing under marine conditions, 11A1441
LOZZA, G: Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, 5A1030
- Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, 5A1031
LU , HEXIANG: Discussion of analyzing of geometric nonlinear beams with large rotations (Chinese), 9A25
LU , PIN: Stress rate integral equations of elastoplasticity, 10A552
LU, BAOTONG: Prediction of probability distribution of fatigue life of 15MnVN steel notched elements under variable-amplitude loading, 9A777
LU, C-H: Free vibration of thick-walled laminated conical tubes, 8A124
LU, CAI-CHENG: Three-dimensional Green's function for elastic waves in multilayer cylindrical structures, 3A185
LU, CC: Mixed-convection mass transfer in a fully developed horizontal square channel flow, 6A1180
LU, CHUANJING: Three-dimensional simulation of underwater explosion bubble, 10A1127
LU, CM: Modeling dump combustor flows with and without swirl at the inlet using Reynolds stress models, 1A1333
- Topology optimization with superelements, 12T976
LU, DENG-MAW: Synthesis of planar five-bar pantograph configurations by a geometric method, 4A865
- Spherical four-bar linkages with symmetrical coupler-curves, 4A855
LU, DM: Direct numerical simulation of a turbulent open channel flow with passive heat transfer, 2A1085
LU, G: Simple method for first dynamic mode of plastic deformation for suddenly loaded beams, 2A407
- Numerical analysis of the large deflection of an elastoplastic cantilever, 8A423
- Optimization of two-component plates against ballistic impact, 10A279
LU, HAN-XING: Analysis of higher-order, finite-difference schemes in 3D reverse-time migration, 11A1367
LU, HY: Computer simulation of the effect of wall thickness on the metal flow in diecasting dies, 3A907
LU, I-TAI: Diffracted effects due to guided modes on finite (truncated) structure elements, 3A227
- Hybrid ray-mode (wavefront-resonance) approach for analyzing acoustic radiation and scattering by submerged structures, 6A208
LU, J: Computerized design and generation of double circular-arc helical gears with low transmission errors, 4A851
- Dynamic fracture under pressure and shear, 9A855
LU, JIAN: Handbook of Measurement of Residual Stresses, 11N29
LU, JIANBO: Feedback control logic for spacecraft eigenaxis rotations under slew rate and control constraints, 4A373
LU, JK: Observations on yield surfaces for 304 stainless steel at large prestrain, 5A451
LU, JYE-CHYI: Analysis of bivariate censored low flows, 6T887
LU, KH: Optimal discrete-time structural control using direct output feedback, 10A885
LU, LKH: Gas turbine acoustic enclosure design by the statistical energy analysis method, 5A1033
LU, MIN-FU: Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, 7A880
LU, MING-WAN: Algorithm for plastic limit analysis, 4A470
LU, MING-WEI: Vehicle handling design process using DOE, 8A335
LU, MX: Notch strength of ceramics and statistical analysis, 4A745
LU, NI-YU: Vortex characteristics over delta wing subject to transient along-core blowing, 4T1109
LU, PAN-AN: Evaluation of nearly singular kernel integrals in BE analysis: Some improved formulations, 8A57
LU, PING: Aircraft terrain following based on a nonlinear continuous predictive control approach, 1A1117
- Optimal predictive control of continuous nonlinear systems, 2A271
- Nonlinear trajectory tracking guidance with application to a launch vehicle, 6A315
- Optimal aircraft terrain-following flight with nonlinear engine dynamics, 6T1021
- Constrained tracking control of nonlinear systems, 12A364
LU, QH: Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, 8A20
LU, QS: Weak and strong interactions in vortex-induced resonant vibrations of cylindrical structures, 8A220
LU, R: Nonlinear system identification in offshore structural reliability, 5A702
LU, RUEY-HSING: Finite element modeling for land displacements due to pumping, 7A696
LU, TW: Fiber recruitment and shape changes of knee ligaments during motion: As revealed by a computer graphics-based model, 12A1446
LU, WEI-MIN: H_∞-control of nonlinear time-varying with finite time horizon, 11A281
LU, WEIXUE: Three-dimensional simulation of epicardial potentials using a microcumputer-based heart-torso model, 4A1366
LU, WENDA: Plastic post-buckling of a simply supported column with a solid rectangular cross-section, 4A565
LU, WENFENG: Free expansion study of liquid nitrogen, 1A1061
LU, XIAOHUA: Study on the structural behavior and composite action in composite slim floor beams, 5T495
LU, XIAOYUN: Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, 10A560
LU, XILIN: Application of identification methology to shaking table tests on reinforced concrete columns, 2A1250
LU, XIN-CHUN: Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, 11A806
LU, Y: Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, 2A1122
- Modeling and fuzzy logic control of an active reaction compensating platform system, 3A819
- Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, 8A450
LU, Y-C: Deformation processes in the vicinity of metal-ceramic interfaces, 1A811
LU, YAN-LIN: Crack aspect development curves and fatigue life prediction for surface cracks at weld toes in the presence of residual stress, 6A595
- Practical procedure for evaluating SIFs along fronts of semi-elliptical surface cracks at weld toes in complex stress fields, 9A803
LU, YICHI: Two-dimensional wave propagation in cylindrical single-crystal solid-liquid bodies, 3A266
- Guided antiplane shear wave propagation in layers reinforced by periodically spaced cylinders, 9A261
LU, YISHEN: Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), 11A1246
LU, YONG: Influences of external drying condition on drying process of porous medium (Chinese), 8A1203
LU, YU-SHENG: Design of a global sliding-mode controller for a motor drive with bounded control, 3A346
LU, YULIN: Hamiltonian structure and 2D nonlinear waves in shallow water (Chinese), 7A265
LU, YUUNG-HWA: Study of the FE stabilized matrix to the hemispherical cup-drawing process, 11A582
LU, YY: Element-free Galerkin method for wave propagation and dynamic fracture, 4A252
LU, Z: Recent advances in polymer composites' tribology, 5A777
LU, ZHENZHOU: Reliability analysis method for structural stiffness, 6A709
LU, ZZ: Life study of nickel-based single crystal turbine blades: Viscoplastic crystallographic constitutive behavior, 7A533
- Analysis of the effect of crystallographic orientations on the fracture of nickel-base single crystals (Chinese), 11A28
LUA, YUAN JIE: Three reliability methods for fatigue crack growth, 8A606
LUAN, MAOTIAN: Simplified procedure for estimating shaking-induced pore-water pressure dissipation of layered saturated sands (Chinese), 8A535
LUBARDA, VA: Fundamental issues in rate theory of damage-elastoplasticity, 4A453
- Comments on plasticity postulates and noe-associative flow rules, 6A392
LUBAS, MJ: Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, 10A1014
LUBICH, CH: Numerical integration of constrained mechanical systems using MEXX, 3A105
LUBLINER, J: Generalized plasticity and shape-memory alloys, 6A395
LUBUMA, JM-S: Dirichlet problems in polyhedral domains II: Approximation by FEM and BEM, 4A28
LUCA, I: Numerical results for the unidimensional heat propagation in a rigid conductor of integral type, 11T1203

LUCAS, PGJ: Convective instability in rotating liquid ^{3}He-^{4}He mixtures, 11A981
LUCAS, RJ: Inverse scattering for the penetrable elipsoid and ellipsoidal boss, 9A363
LUCAS, TN: Unifying theory of least-squares Pade model reduction methods, 12T334
LUCCHESI, M: Numerical solution of equilibrium problems for elastic solids with bounded tensile strength, 4A441
- Masonry-like solids with bounded compressive strength, 9A526
LUCCIONI, B: Coupled plastic-damaged model, 8A607
LUCCIONI, BM: Thin-walled prestressed concrete members under combined loading, 8A757
LUCHKO, IA: Interaction of cylindrical blast waves in viscoplastic medium with immobile obstacle (Russian), 7T230
- Strain of thick-walled cylindrical shells with porous filler and the inner explosion loading, 9A603
LUCIA, U: Measuring thermal properties with the parallel wire method: A comparison of mathematical models, 10A1298
LUCIANO, R: Analytical expressions for the relaxation moduli of linear viscoelastic composites with periodic microstructure, 5A476
- Variational bounds for the overall properties of piezoelectric composites, 8A465
- Bounds on the off-diagonal coefficients of the homogenized constitutive tensor of a composite material, 11T465
LUCIBELLO, P: Adaptive output regulation of a flexible arm, 9A459
LUCIFREDI, A: Use of neural networks for identification of linear and nonlinear systems, 2A275
LUCK, R: Comparison of reciprocity and closure enforcement methods for radiation view factors, 3A1126
LUCZAK, R: Truncation error in grid generation: A case study, 3A42
LUCZKA, J: Kinetics of microdomain formation in 2D assemblies, 9A12
- Transport in ratchet-type systems, 9A16
LUCZKO, J: Analysis of a initially deformed and preloaded discrete-continuous system with rotating element, 3A145
LUDWICZAK, DR: Geometric stiffness effects on data recovery of an idealized mast-blanket model, 7A201
- New pre-loaded membrane geometric stiffness matrix with full rigid body capabilities, 11A514
LUE, TSUN-SUN: Path planning for robot manipulators in polyhedral objects environment, 2A319
LUEPTOW, RM: Flow Noise Modeling, Measurement and Control, NCA-Vol 19-FED-Vol 230 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 4N6
LUESCHEN, GGG: Green's function synthesis for sandwiched distributed parameter systems, 10A195
LUESSE, MH: Technique for locally increasing surface heat spreading and through-thickness thermal conductivity of graphite-epoxy laminates, 8A1235
LUFRANO, J: Modeling of hydrogen transport and elastically accommodated hydride formation near a crack tip, 7A822
- Numerical analysis of the interaction of solute hydrogen atoms with the stress field of a crack, 9A802
LUGNER, P: Additional 4WS and driver interaction, 1A406
LUGOVOI, PZ: Nonstationary wave movements of oblique-angle plates under effect of instantaneously applied load, 7A223
LUGOVOY, PZ: Numerical integration of equations of plane and axisymmetrical problems of dynamic theory of elasticity in the complex form areas, 9A492
LUGT, HJ: Vortex Flow in Nature and Technology, 1R25
LUGT, PM: Influence of elastic deformation of the roll and the sheet in a hydrodynamically lubricated cold rolling process, 5A1093
LUH, CHI-MEH: Numerical algorithms for mapping boundaries of manipulator workspaces, 12A445
LUH, CHI-MEI: Working capability analysis of Stewart platforms, 12A449
LUI, JUDE: Investigation of the stress-strain relationship of sand, 10A646
LUI, YB: Computer simulation of the effect of wall thickness on the metal flow in diecasting dies, 3A907
- Reclassification of the die-filling stages in pressure die-casting processes, 12A698
LUISA MADUREIRA, M: Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement, 11A579
LUKAS, EW: Step response of pressure-sensitive paints, 8A1044
LUKASIEWICZ, S: Nonlinear analysis of damping properties of cylindrical sandwich panels, 2A145
- Nonlinear damped vibrations of simply-supported rectangular sandwich plates, 4A170
- Effect of temperature changes on damping properties of sandwich cylindrical panels, 5A110
- Nonlinear damped vibrations of simply supported sandwich plates in a rapidly changing temperature field, 9A1288
LUKE, CJ: Fluid-solid interaction: Acoustic scattering by a smooth elastic obstacle, 1A258
LUKINS, R: US and Russian thermal control coating results in low Earth orbit, 7A992
LUKKA, A: ICPR '93: 12th international conference on production research, 1A443
LUKOVICS, V: Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), 11A149
LUKOWIAK, C: Proportioning of I sections on account of their stability (Polish), 10A904
LUKOYANOV, NY: Problem of conflicting control with mixed constraints, 12A345
LUM, KAI-YEW: Global stabilization of the spinning top with mass imbalance, 6A94
LUMELSKY, V: Ties that bond: Motion planning for multiple tethered robots, 12T441
LUMIJARVI, J: Comment on "stability of non-conservative linear discrete gyroscopic systems", 2T503
LUMLEY, JL: Research Trends in Fluid Dynamics: Report from the United States National Committee on Theoretical and Applied Mechanics, 9N20
- New Reynolds stress algebraic equation model, 1A1087
- Flow over an obstacle emerging from the wall of a channel, 10A1150
- Collaborative testing of turbulence models, 12A1154
LUN, MING: Design of crank-rocker mechanisms with optimum transmission angle over working stroke, 9A1020
LUNARDINI, VJ: Multidimensional steady conduction in convecting, radiating, and convecting-radiating fins and fin assemblies, 4A1197
LUND, KO: Analysis of close-packed brush-fiber interfaces for spacecraft thermal management, 5A738
- Direct-heating energy-storage receiver for Dish-Stirling solar energy systems, 7A1402
LUNDBERG, B: Abrasive wear in intermediate mode of multiphase materials, 6A815
- Identification of a percussive drill rod joint from its response to stress wave loading, 7A219
- Optimum transmission of extensional waves through a non-uniform viscoelastic junction between elastic bars, 8A167
- Reflection and transmission of the energy of harmonic elastic waves in a bent bar, 8A179
- Influence of scale on the penetration of tungsten rods into steel-backed alumina targets, 9A281
- Reflection and transmission of the energy of transient elastic extensional waves in a bent bar, 9A190
LUNDBERG, J: Influence of surface roughness on normal-sliding lubrication, 4A835
- Study of lubricated impact using optical interferometry, 5A816
LUNDBERG, JB: Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93, 12N10
LUNDBERG, P: Influence of scale on the penetration of tungsten rods into steel-backed alumina targets, 9A281
LUNDEN, R: Fatigue life model for general rolling contact with application to wheel-rail damage, 3A832
LUNDGREN, DA: High-output, size-selective aerosol generator, 4A1287
LUNDGREN, TS: Transition to turbulence in an elliptic vortex, 7A1123
- Experimental investigation of microbursts, 12A1416
LUNDQUIST, B: Annoyance caused by noise from heavy weapon shooting ranges, 10A336
LUNDQUIST, M: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
LUNEV, VV: Equilibrium positions of mechanisms and methods for their determination, 12A977
LUO , YONGFENG: Application of nonlinear beam and cable element theory in the design of light mast structures (Chinese), 9A23
LUO, ACJ: Dynamics of a bouncing ball with a sinusoidally vibrating table revisited, 10A101
LUO, BIN: Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), 4A323
LUO, DONGPING: Effects of damping material on steady-state response of submerged ring-stiffened cylindrical shells (Chinese), 4A323
- Analytical solution of radiated sound pressure of ring-stiffened cylindrical shells in fluid medium, 8A218
LUO, FA-LONG: Real-time computation of the eigenvectors of a class of positive definite matrices, 12A82
LUO, GANGMING: Implementation of strain rate as a bone remodeling stimulus, 5A1365
LUO, GUI-FENG: Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, 7T1341
LUO, GUIHUA: Yield stress and maximum packing fraction of concentrated suspensions, 5A862
LUO, H: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518
LUO, JIA: Determination of weighting matrices of a linear quadratic regulator, 4T349
LUO, JIANBIN: Thin film lubrication - Part I: Study on the transition between EHL and thin film lubrication using a relative optical interference intensity technique, 12A1193
LUO, JYI-JIIN: Acoustic emission study of failure mechanisms in ceramic matrix composite under longitudinal tensile loading, 4A775
- Plane solutions of interface cracks in anisotropic dissimilar media, 6A671
LUO, R: Ultimate strength of girders with trapezoidally corrugated webs under patch loading, 5A501
- Shear capacity of plate girders with trapezoidally-corrugated webs, 11A15
LUO, RK: Dynamic stress analysis of an open-shaped railway bogie frame, 9A219
LUO, SC: Numerical study of flow past a rotating circular cylinder using a hybrid vortex scheme, 2A885
LUO, SHAOKAI: Integration methods of vacco dynamics equation of nonlinear nonholonomic systems, 7A120
LUO, SHIJUN: Transonic equivalence rule involving lift and shocks, 10T1201
LUO, SY: Characteristics of diamond sawblade wear in sawing, 10A970
LUO, WEILI: Ramified structures of magnetic suspensions, 7A683
LUO, X-L: Operator-splitting computation of turbulent flow in an axisymmetric 180° narrowing bend using several k-ε models and wall functions, 12A1114
- Operator splitting algorithm for viscoelastic flow and numerical analysis for the flow around a sphere in a tube, 12A1048
LUO, XY: Numerical simulation of unsteady flow in a 2D collapsible channel, 11A961
LUO, Y: Incorporation of absorbing boundary conditions into acoustic and elastic wave propagation problems solved by spectral time-marching, 12A306
LUO, YF: Micro-mechanics investigation on the bonding stength of heteroepitaxial film or strip on a hard substrate, 3A873
LUO, YH: Seismic reliability assessment of existing R-C flat-slab buildings, 2A1247
LUO, Z: Coupled torsional-lateral-axial vibration analysis of a geared shaft system using substructure synthesis, 7A202
LUO, ZHENG HUA: Initial-boundary value problem and exponential decay for a flexible-beam vibration with gain adaptive direct strain feedback control, 12T151
LUO, ZJ: Ductile damage model corresponding to the dissipation of ductility of metal, 8A629
LUO, ZONG-PING: Determination of the proximity tolerance for measurement of surface contact areas using a magnetic tracking device, 6A1363
- Importance of soft-tissue integrity on biomechanical studies of the patella after TKA, 9A1436
- Determination of spinal facet joint loads from extra-articular strains: A theoretical validation, 10A1463
LUO, ZX: Algebraic-geometry foundation for constructing smooth interpolants on curved sides element, 6A31
LUONGO, A: Eigensolutions of perturbed nearly defective matrices, 1A167
- Bifurcations and stability of amplitude modulated planar oscillations of an orbiting string with internal resonances, 7A148
LUPPE, F: Experimental study of the conversion of Lamb waves at the end of an immersed plate, 11A257
LURIE, SA: Biharmonic Problem in the Theory of Elasticity, 8R7
LUSCHIK, LG: New process for the production of hydrocellulose fibers without using carbon disulfide, 6A870
LUSHIN, VN: Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1066
LUSKIN, M: Analysis of a class of nonconforming FE for crystalline microstructures, 12A8
LUSTIG, SR: Thermodynamic constitutive equations for materials with memory on a material time scale, 6A1064
LUTES, LD: Decay of residual stress in stochastic fatigue, 6A628
- Structural damping for soil-structure interaction studies, 8A159
- Stochastic cumulant analysis of MDOF systems with polynomial-type nonlinearities, 9A932
- Efficiency and accuracy in simulation of random fields, 9A114
LUTFY, FM: Analysis of the Baldwin-Barth and Spalart-Allmaras one-equation turbulence models, 3T971
- Initial experimental study of pulsed electron beam fluorescence, 8A1058
LUTSKY, AE: Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, 5A985
- Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
LUTTGES, MW: Neural network prediction and control of 3D unsteady separated flowfields, 5A934
- Dynamic reattachment on a downward pitching finite wing, 9A1218
LUTZ, AE: Rich flammability limits in CH_3OH-CO_2 diluent mixtures, 7A1336
LUTZ, E: Boundary contour method for 3D linear elasticity, 12A485
LUTZ, KA: Stochastic model for spatially and temporally dependent earthquakes, 2A1238
LUTZ, MP: Thermal stresses and effective thermal expansion coefficient of a functionally gradient sphere, 7A1286
LUTZE, FH: Time-optimal lateral maneuvers of an aircraft, 3A360
- Mixed H_2/H_∞ optimal control for an elastic aircraft, 11A284
LUXMOORE, AR: J-integral solutions for shallow crack geometries under combined tension and bending, 11A669
LUZI, L: Applications of statistical and GIS techniques to slope instability zonation (1:50.000 Fabriano geological map sheet), 8A541
LUZON, F: Simulation of the seismic response of a 2D sedimentary basin: A comparison between the indirect BEM and a hybrid technique, 3A1339
LUZZI, A: Endothermic reactors for an ammonia based thermochemical solar energy storage and transport system, 11A1433
LY, UY-LOI: Stability augmentation design of a large flexible transport using nonlinear parameter optimization, 8A1018
- Sampled-data system with computation time delay: Optimal W-synthesis method, 11A292
LYAGUSHIN, SF: Way to creating a system of distant power supply for space vehicles, 8A1393
LYASHKO, VA: Thermodynamic analysis of rough surfaces in contact, 6A811
LYBECK , NJ: Sinc methods for domain decomposition, 7A72
LYCHE, T: Mathematical Methods for Curves and Surfaces, 2N54
LYKOUDIS, PS: Introduction to the method of average magnitude analysis and application to natural convection in cavities, 3A1038
- Natural convection in a cubic enclosure in the presence of a horizontal magnetic field, 8T1081
LYN, DA: Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, 6A968
LYNCH, AG: Symbolic formulation for linearization of multibody equations of motion, 5A78
LYNCH, DD: Electric model of a hemispherical resonator gyro, 10A90
LYNCH, JF: Simulated tomographic reconstruction of ocean features using drifting acoustic receivers and a navigated source, 3A259
- Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
- Forward coupled-mode propagation modeling for coastal acoustic tomography, 7A361
LYNCH, SP: Failures of welded titanium aircraft ducts, 6A597
LYNN, TB: Direct drag measurements in a turbulent flat-plate boundary layer with turbulence manipulators, 4A1076
LYON, RH: Recovery of impact signatures in machine structures, 2A142
- Determination of component motions in a motor-operated valve using housing vibration, 11A866
LYON, SB: Elasticity and fracture in particulate composites with strong and degraded interfaces, 10A792
LYONS, AP: Predictions of the acoustic scattering response of free-methane bubbles in muddy sediments, 6A245
LYONS, DF: Flying-qualities analysis of an unmanned air vehicle, 9A1227
LYONS, DW: Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
- Stress field in coated continuous fiber-reinforced polymeric composite due to hygrothermal loading, 12A552
LYONS, G: Forging sequence design using an expert system, 7A722
LYONS, GJ: Measurements from the Emerald instrumented flexible riser, 12A856
- Structural damping of tensioned pipes with reference to cables, 12A157
LYONS, JP: Integration of magnetic bearings in the design of advanced gas turbine engines, 5A1281
LYONS, JS: Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, 2A573
- High-temperature deformation measurements using digital-image correlation, 10A847
LYONS, LPR: Enhanced lower-order element formulations for large strains, 6A32
LYPACEWICZ, G: Measurement technique of shock wave pulses at extremely high pressures, 9A394
LYRINTZIS, AS: Computational Aeroacoustics - 1995 ASME/JSME Fluids Eng Conf, 2N35
- Prediction of the far-field jet noise using Kirchhoff's formulation, 7T322
- Data-parallel total variation diminishing method for sonic boom calculations, 7A279
- Efficient iterative methods applied to the solution of transonic flows, 7T1076

LYSENKO, OG: Holographic interferometry study of heat and mass transfer of liquid media in capillaries, 10A1357
LYSENKO, VB: Statistical estimation of seismic hazard parameters: Maximum possible magnitude and related parameters, 12A1387
LYTTON, RL: Theoretical prediction of drying shrinkage of concrete, 3A490
LYU, JR JUNG: Applying kaizen and automation to process reengineering, 10A498
LYU, SUNG-KI: Effects of surface treatment on the bending-fatigue strength of carburized spur gears, 9A755
LYUBIMOV, D: Periodic solutions for differential equations of order three, with application to heat-flux induced convection, 4A1156
LYUBIMOV, DV: Convective flows under the influence of high-frequency vibrations, 1A1195
LYUBIMOVA, TP: Free convective heat and mass transfer in processing polymer materials, 5A1147
LYUBUSHIN, AA: Statistical estimation of seismic hazard parameters: Maximum possible magnitude and related parameters, 12A1387
LYYTINEN, H: Postural stability and skilled performance: A study on top-level and naive rifle shooters, 6A1381

M

M'SAAD, M: Parametric robustness evaluation of a H_{∞} missile autopilot, 11A315
MA , HUIYANG: Interactions of 3D viscous axisymmetric vortex rings with a free surface, 3A893
MA , LIYING: Discussion of analyzing of geometric nonlinear beams with large rotations (Chinese), 9A25
MA, A-J: Design sensitivity analysis of nonlinear response for large deflection forced vibrations of beams, 4A150
MA, AIJUN: Statistical properties of response for nonlinear structural systems with random parameters, 5A171
MA, B: Anomalous magnetic source defect modeling, 6A701
MA, CHIEN-CHING: Body force weight functions of cracked bodies, 4A707
- Plane solutions of interface cracks in anisotropic dissimilar media, 6A671
- Transient response of an antiplane inclined subsurface crack subjected to dynamic moving loadings, 9A844
MA, DC: Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N13
MA, F: Analysis of linear nonconservative vibrations, 5A99
MA, FS: Stress and energy density fields near a blunted crack front in power hardening material, 2A638
MA, GY: Investigation on the properties and structures of starting vortex flow past a backward-facing step by WBIV technique, 12A1109
MA, H: Crack initiation angles for systems of two interacting cracks in media with rectilinear-preferred directions, 8A669
MA, HB: Thermodynamic analysis of the influence of electric fields on frost formation, 1T1155
- Experimental investigation of countercurrent liquid-vapor interactions and their effect on the friction factor, 6T944
MA, HEZHONG: Dynamic response of laminated orthotropic spherical shells including transverse shear deformation and rotatory inertia, 11A520
MA, HONGWEI: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, 9A638
MA, J: Generalized Gaussian quadrature rules for systems of arbitrary functions, 12A53
MA, JUN: Method of ship vibration forecasting by databases (Chinese), 8A148
MA, M: Lateral distortional buckling of monosymmetric I-beams under distributed vertical load, 12A614
- Elastic tripping analysis of asymmetrical stiffeners, 12A146
MA, MING-JIN: Control of seismically excited building structures using variable damper systems, 8A1336
MA, N: Buoyant convection during the growth of compound semiconductors by the liquid-encapsulated Czochralski process with an axial magnetic field and with a non-axisymmetric temperature, 9A1080
MA, Q: Boundary element scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, 1A293
MA, R: Simulation of mechanical response in crystallizing polymers: Crystallization under a constant shear force, 3A876
MA, RP: Neural network-based active vibration absorber with state feedback control, 7A917
MA, S: Behavior of concrete slabs reinforced with fiber-reinforced plastic grid, 3A774
MA, SC: Determination of optimal cutting parameters in wire electrical discharge machining, 2A563
MA, SHUGEN: Balancing technique to stabilize local torque optimization solution of redundant manipulators, 7A429
- Dynamic approach to real-time obstacle avoidance control of redundant manipulators, 12A453
MA, T-M: Characterization of effective masses and optical gain in strained quantum-well lasers, 6T307
MA, TH: Experimental data processing techniques to map the performance of a spark ignition engine, 4A1265
MA, WX: Explicit and exact solutions to a Kolmogorov-Petrovskii-Piskunov equation, 11A169
MA, X: Modeling of oxidation in metal matrix composites, 4A1247
MA, XIAOJIANG: Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), 11A157
MA, XIAOQING: Burning model of internal combustion engine based on neural networks (Chinese), 7A1343
MA, XINGRUI: Generalized ray approximate method to inverse medium parameters, 9A274
- Transition matrix inversion method in a stratified medium (Chinese), 10A254
- Method of interface inversion in inhomogeneous media, 10A253
MA, XINMING: Shearing flow near a bypass with a ball in it, 9A1149
MA, XR: Phase superposition processing for ultrasonic imaging, 12A796
MA, XUCUN: Thermodynamic properties of aqueous mixtures of LiCl and Li_2SO_4 at different temperatures, 1A1160
MA, YANSHENG: Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, 12A930
MA, YANWEN: Numerical simulation of the axisymmetric unsteady incompressible flow by a vorticity-velocity method, 2A879
MA, YU PEI: Techniques for depth-selective, low-frequency eddy current analysis for SQUID-based NDT, 8A703
MA, YU-YI: Comparison of several discrete arithmetic schemes for simulating a constrained jet and lab-scale tangential fired furnace, 12A1311
MA, Z-D: Nonlinear viscoelastic bushing element in multibody dynamics, 10A118
MA, ZHENG-DONG: New method of sequential approximate optimization for structural optimization problems, 7A906
MA, ZY: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834
MAA, DAH-YOU: Nonlinear standing waves: Theory and experiments, 3A244
MAAS, D: Microvalves with bistable buckled polymer diaphragms, 10T462
MAAS, LRM: Geometric focusing of internal waves, 4A277
MAAS, U: Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation, 9R24
- Simulation of the behavior of rich hydrogen-air flames near the flammability limit, 2A1179
MAATAR, M: Mathematical model for analyzing the influence of shape deviations and mounting errors on gear dynamic behavior, 10A1005
MAATOUK, A: Yeilding and critical state of a collapsible unsaturated silty soil, 2A523
MABUCHI, M: Superplasticity and cavitation in light metal matrix composites (Japanese), 9T335
MAC SITHIGH, GP: Collisions of pseudo-rigid bodies: A Brach-type treatment, 7A262
MAC, B: Automatic color control during mass coloration of melt spun fibers, 6T373
MACADAM, CC: Application of elementary neural networks and preview sensors for representing driver steering control behavior, 7A395
MACARTHUR, C: Temperature measurement of a curved surface using thermographic phosphors, 4A1128
MACCARINI, G: Theoretical and experimental analysis of non-axisymmetrical deep drawing, 6A564
- Formability in extrusion forging: The influence of die geometry and friction conditions, 6A557
MACCHI, E: Assessment of the thermodynamic performance of mixed gas-steam cycles - Part A: Intercooled and steam-injected cycles, 5A1030
- Assessment of the thermodynamic performance of mixed gas-steam cycles - Part B: Water-injected and HAT cycles, 5A1031
MACCLUER, CR: Linear chaos in the unforced quantum harmonic oscillator, 12T114
MACDONALD, KA: Stress analysis of drillstring threaded connection using the FEM, 2A10
MACDONALD, MJ: Experimental study of shear-induced migration of polymers in dilute solutions, 8A867
MACDONALD, N: Harmonic balance in delay-differential equations, 3A319
MACDONALD, NC: Micromachined, single-crystal silicon, tunable resonator, 3T393
- Spring suspended corrugated membranes, 6T351
MACDONALD, RA: Analytical method for determining thermal conductivity from dynamic experiments, 1A1253
MACE, BR: Structural intensity in beams-waves, transducer systems and the conditioning problem, 1A187
- Finite frequency band averaging effects in the statistical energy analysis of two continuous 1D subsystems, 7A360
- Vibration of plates on 2D periodic point supports, 11A117
- Statistical energy analysis of two edge-coupled rectangular plates: Ensemble averages, 12A168
MACEDO, AP: Integro-differential model for the heat transfer in forest fires, 3A1234
MACEK, RW: Mass penalty technique to control the critical time increment in explicit dynamic FE analyses, 3A113
MACEWEN, SR: Hardening laws, surface roughness, and biaxial tensile limit strains of sheet aluminum alloys, 4A460
- Textures induced by tension and deep drawing in aluminum sheets, 6A563
MACFARLANE, CJ: Application of homotopic methods to static flexible pipe and cable problems, 9A568
MACGREGOR, JD: Finite-element model of the cyclic aerodynamic loading of a turbine rotor due to an upstream stator, 12A1181
MACGREGOR, SA: Jet mixing in a model direct injection diesel engine with swirl, 8A971
- Flexible pharmaceutical powder production, 10A493
MACHADO, MES: Solving multiple-objective problems in the objective space, 12T359
MACHELSKI, C: Comparison of standard moving loads of bridges (Polish), 10A901
- Random simulation of material effort of precast RC beam spans (Polish), 10A908
MACHENS, K-U: Energy partitioning in a truss structure, 7A180
MACHIDA, H: Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, 6A845
- Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, 6A844
MACHIDA, K: Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), 5A127
MACHIELSEN, CHM: Performance of high-temperature absorption heat transformers using Alkitrate as the working pair, 6A1154
MACHOWSKI, A: Choice of steel bracing in frame structures on the base of rigidity criteria, 1A901
- Analysis of frames with amplified sway for combined actions, 1A898
- Control of shifting locomotive operating in excavator-haulage train system (Polish), 3T408
- Analysis of shift locomotive work as element of excavator-haulage train robot system (Polish), 3T406
- Steel column capacity standard formulas in multistory frames analysis (Polish), 6A764
MACHOWSKI, B: Simulation of the antiaircraft, long-range missile guidance, 3A359
MACHOWSKI, J: Analysis of shift locomotive work as element of excavator-haulage train robot system (Polish), 3T406
MACHOWSKI, Z: Control of shifting locomotive operating in excavator-haulage train system (Polish), 3T408
MACIAG, E: Dynamic investigation of prefabricated buildings with bearing concrete walls subjected to quarry blasts (Polish), 3A812
- Damping of vibration in precast buildings with bearing concrete walls, 3A151
- Damping of vibration in precast buildings with bearing concrete walls, 9A951
MACIEJEWSKI, AJ: Reduction, relative equilibria and potential in the two rigid bodies problem, 10A323
MACIEJEWSKI, J: Energetically most efficient trajectories for the heavy machine shoving process, 1A706
MACIEJEWSKI, PK: Evidence of a convective instability allowing warm water to freeze in less time than cold water, 8A1085
- Elements of an approach to the assessment of random uncertainty in transient measurements, 9A1252
- Elements of a general correlation for turbulent heat transfer, 11A1098
- Asymmetric systematic uncertainties in determination of experimental uncertainty, 12A343
MACIULIS, A: Creep simulation of polymer matrix-dispersed filler composites (Russian), 8A409
MACKAY, JR: Electrical freezing potentials measured in a pingo growing in the western Canadian arctic, 11A1439
MACKAY, ME: Generalized engineering Bernoulli equation (GEBE) and the first and second laws of thermodynamics for viscoelastic fluids, 11A852
MACKENZIE, D: Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, 9A521
MACKENZIE, JA: Investigation of artificial dissipation for the cell-vertex finite volume method, 2A1039
MACKENZIE, MR: Measurements in the microscopic flow with a solid-state LDA, 2A1069
MACKERLE, J: Boundary Element Reference Database, 7N2
- Fastening and joining: FE and BE analysis - A bibliography (1992-1994), 1A18
- Implementing FEMs on supercomputers, workstations and PCs: A bibliography (1985-1995), 9A58
MACKIE, I: Influence of temperature on the performance of variable declining rate filters for drinking water, 9T1059
MACKIEWICZ, A: Optimal sensor location in active control of flexible structures, 9T897
MACKIN, TJ: Use of thermoelasticity to evalute stress redistribution and notch sensitivity in ceramic matrix composites, 9A564
MACKLEY, MR: Experimental observation and numerical prediction of planar entry flow and die swell for molten polyethylenes, 2A682
- Multipass rheometer, 4A914
- Experimental observations on the pressure-dependent polymer melt rheology of linear low-density polyethylene, using a multi-pass rheometer, 10A1052
MACLAY, GJ: Anharmonic Casimir Oscillator: The Casimir effect in a model microelectromechanical system, 5T346
MACLAY, TD: Mass-diameter and characteristic-length ratio functions for orbital debris, 12A270
MACLENNAN, I: Constraint-based failure assessment diagrams, 1T790
MACLEOD, DA: Wheelchair stability: Effect of body position, 6A1377
MACMARTIN, DG: Aircraft fuselage noise transmission measurements using a reciprocity technique, 4A331
- Collocated structural control for reduction of aircraft cabin noise, 7A349
MACOSKO, C: Transient extensional viscosity from a rotational shear rheometer using fiber-windup technique, 12A1016
MACOSKO, CW: Rheology of long-chain randomly branched polybutadiene, 12A1012
MACQUISTEN, MA: Combustion oscillations in a twin-stream afterburner, 6A1200
MACRAE, GA: Displacement-based design of RC bridge columns in seismic regions, 5A1317
MACROSSAN, MN: Numerical study of hypersonic leeward flow over a blunt nosed delta wing, 2A1019
- Method of assessing the effects of artificial dissipation in Navier-Stokes codes, 11A879
MACZKA, C: State of stress and displacement under the ring foundations executed over the contour of a deep excavation, 3A446
MADANSHETTY, SI: Conceptual model for acoustic microcavitation, 3A279
MADANSURE, VN: Modeling and simulation of PV-powered intermittent load systems by bond graph technique, 4A1357
MADAY, Y: Analysis of a part design procedure, 3A418
MADDEN III, JF: Performance based optimization of high speed prop-rotors, 1A1135
MADDEN, JD: Three-dimensional microfabrication by localized electrochemical deposition, 11A612
MADDEN, W: Recycling of composite materials, 7A588
MADDOCKS, JM: Stability theory for dissipatively perturbed Hamiltonian systems, 2A71
MADEJSKI, J: Remarks on the theory of two-phase flows in steam turbines (Polish), 9A1339
- Migration of admixtures in the steam power station cycle (Polish), 9A1338
MADENCI, E: Biaxial compression of a thin layer with circular debonding over a substrate, 1A552
- Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, 11A39
MADHAV, MR: Mechanics of kinking and buckling of plastic board drains, 8A506
- Deformation analysis of soft ground reinforced by columnar inclusions, 11A571
MADHAVAN, V: Finite element model comparison of ball and roller bullgears, 8A800
MADHUSUDANA, CV: Thermal Contact Conductance - Mechanical Engineering Series, Vol 14, 8R33
MADJIDI, S: Damage tolerance of CSM laminates subject to low velocity oblique impacts, 7A869
MADNIA, CK: Non-Gaussian scalar statistics in homogeneous turbulence, 11A989
MADOLE, RF: Ribbon Cliff landslide, Washington, and the earthquake of December 14, 1872, 2A1234
MADON , A: Spatio-temporal bifurcations in plasma drift-waves, 9A300
MADSEN, EL: Experimental demonstration of the frequency dependence of the effective scatterer number density, 9A391
MADSEN, HO: Structural Reliability Methods, 11R25
MADSEN, JI: Optimization of flow geometries applying quasianalytical sensitivity analysis, 9A1156

MADSEN, PA: Further enhancements of Boussinesq-type equations, 5T624
MADSON, CR: Mechanical and load-settlement characteristics of two lunar soil simulants, 6A224
MADUDA, M: Chip breaking equipment in machining (Polish), 11A828
MADUGULA, MKS: Development of column curve for steel angles, 8A519
- Geometric axis bending strength of double angle beams, 12A588
MADZHUGIN, LL: Influence of the law of dynamic load drop on the deformability of sandy soils, 5T548
MAEDA, K: Closed loop momentum transfer maneuvers using multiwheels, 1T388
- Use of foreshocks in probabilistic prediction along the Japan and Kuril trenches, 11A1365
MAEDA, M: Buoyancy effects on the wake behind a heated obstacle immersed in a turbulent boundary layer, 5A1136
- Effect of dispersed phase on modification of turbulent flow in a wall jet, 12A1132
MAEDA, N: Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), 11A118
MAEDA, T: Non-destructive testings and their feasibility study in concrete structures (Japanese), 4A816
- Determination of rigidities of fiber-reinforced plastic laminates using holographic interferometry, 11T704
MAEGAWA, Y: Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), 1A651
MAEKAWA, I: Effect of oxide layers on behaviors of particle impact damage of silicon carbide (Japanese), 7A258
MAEKAWA, K: Computer simulation of 3D machining with cut-away tools, 1T721
- Drying shrinkage model of concrete based on micromechanism in concrete (Japanese), 2A410
- Effectiveness of laterally arranged reinforcement on the confinement of core concrete, 2A751
- Verification of 3D constitution model of concrete in line with capacity and ductility of laterally reinforced concrete columns, 2A767
- Friction and tool wear in nano-scale machining: A molecular dynamics approach, 3A823
- Development of self-compacting high performance concrete (Japanese), 4T806
- Multi-component model for hydration heat of Portland cement (Japanese), 6A1158
- Computational approach to path-dependent nonlinear RC-soil interaction, 9A908
- Embedded bar behavior in concrete under combined axial pullout and transverse displacement, 9A913
- Simulation analysis of 3D continuous chip formation process - 3rd Report: Effects of tool geometry on chip flow and tool wear (Japanese), 11A601
- Recent progress of computer aided simulation of chip flow and tool damage in metal machining, 11A599
- Simulation analysis of 3D continuous chip formation processes - Fourth Report: Effects of workpiece and tool materials properties on 3D cutting mechanism (Japanese), 12A690
MAEKAWA, Z: Design of knitted fabric reinforced composites, 2A422
- Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
MAENHAUT, W: Ash vaporization in circulating fluidized bed coal combustion, 9A1322
MAENO, T: Imaging technique of very small change using 2D lock-in amplifier systems (Japanese), 12T801
MAERZ, S: Thermally induced vibration of a symmetric cross-ply plate with hygrothermal effects, 3T1172
MAES, MA: Reliability-based casing design, 1A948
- Ignorance factors using model expansion, 6A735
MAESTRELLO, L: Control of panel response to turbulent boundary-layer and acoustic excitations, 7A350
- Forward motion effects on jet noise, panel vibration, and radiation, 11A245
MAFFETTONE, PL: Bifurcation analysis of a molecular model for nematic polymers in shear flows, 1A94
MAFFEZZONI, C: Simulating discontinuous phenomena affecting robot motion, 7A436
- Characteristic line based method to build finite-dimensional models of heat exchangers, 11A339
MAGALHAES, AG: Mechanical behavior of cementitious matrix composites, 10A570
MAGARIYAMA, Y: Bacterial motion and flagellar motors, 12T1469
MAGDA, W: Wave-induced uplift force acting on a submarine buried pipeline: FE formulations and verification of computations, 12A658
MAGDUGULA, MKS: Flexural buckling of steel angles: Experimental investigation, 8A520
MAGEE, TC: Technique for locally increasing surface heat spreading and through-thickness thermal conductivity of graphite-epoxy laminates, 8A1235
MAGHAM, HG: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
MAGHAMI, PG: Integrated controls-structures design methodology for flexible spacecraft, 5A243
- Integrated controls-structures design methodology: Redesign of an evolutionary test structure, 8A272
- Experimental validation of an integrated controls-structures design methodology, 8A350
- Efficient computation of closed-loop frequency response for large-order flexible systems, 12A404
MAGHAREH, MR: Semi-empirical formulae in design of reinforced earth structures, 9A682
MAGHOUS, S: Three-dimensional yield strength properties of jointed rock mass as a homogenized medium, 10A694
MAGID, MG: Creep buckling and rupture of columns with arbitrary symmetric cross section, 1A675
MAGILL, JC: Flow visualization during multiple-axis motions using a wind-driven manipulator, 7A1176
- Experimental evaluation of an adaptive controller for a wind-driven pitch manipulator, 11A325
MAGLARAS, G: Comparison of probabilistic and deterministic optimizations using genetic algorithms, 6A712
- Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808
MAGNANI, G: Simulating discontinuous phenomena affecting robot motion, 7A436
MAGNIN, A: Thixotropic colloidal suspensions and flow curves with minimum: Identification of flow regimes and rheometric consequences, 12A1006
MAGNUCKI, K: Optimal design of a cylindrical shell loaded by internal pressure, 12A817
MAGNUS, F: Rheology of long-chain randomly branched polybutadiene, 12A1012
MAHADEVAN, L: Periodic folding of thin sheets, 4A427
MAHADEVAN, R: Stochastic inverse method for ocean acoustic tomography studies: A simulation experiment, 10A382
MAHADEVAN, S: Development of a reliability-based fatigue life model for gas turbine engine structures, 8A598
MAHADEVAPPA, M: Numerical study of steady laminar fully developed fluid flow and heat transfer in rectangular and elliptical ducts rotating about a parallel axis, 5A1145
MAHAFFY, JH: Two-phase level tracking method, 11A1424
MAHAJAN, RL: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
- Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 4, 3N35
- Parametric study of buoyancy-induced flow and heat transfer from L-shaped corners with asymmetrically heated surfaces, 5A1132
- Fine-pitch stencil printing process modeling and optimization, 8A845
MAHAJERIN, E: Fundamental collocation method applied to plane thermoelasticity problems, 2A1160
- Accurate body force integration in boundary methods applied to plane elasticity, 12A526
MAHALINGAM, S: Effects of shear and strain on temporal evolution of laminar diffusion flames, 6A1195
- Direct numerical simulation of acoustic-shear flow interactions in 2D ducts, 7A330
- Structure of nonpremixed reaction zones in numerical isotropic turbulence, 11A1001
MAHAVADI, SK: Effects of rectangular foundation geometry on local pier scour, 6T883
MAHBOUBI, A: Homogenization for granular materials: Non reversible behavior, 11A1314
MAHENDRAN, M: Towards an appropriate fatigue loading sequence for roof claddings in cyclone prone areas, 2A747
MAHER, MH: Effects of obstacles on Rayleigh wave dispersion obtained from the SASW test, 12A220
MAHERI, MR: Finite-element prediction of modal response of damped layered composite panels, 3A141
- Improved method for testing unidirectional FRP composites in tension, 4A497
MAHESH, K: Interaction of an isotropic field of acoustic waves with a shock wave, 4A282
MAHESHA, A: Transient effect of battery of injection wells on seawater intrusion, 10A1415
MAHESHWARI, SK: Simultaneous evaluation and selection of strategies for loading and controlling machines and material handling system in FMS, 2A349
MAHFOUDH, J: Morphological study of vibration signals: Identification of spur and helical gear faults (French), 11A658
MAHFUZ, H: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669
MAHIDHAR, GNRK: Numerical study of a Fourier approximation method for nonlinear gravity waves, 1A237
MAHIDHARA, RK: Evidence of region I deformation behavior in 7475 Al alloy, 1A496
MAHIN, SA: Parameter study of an internal timber tension connection, 10A929
MAHINFALAH, M: Photoelastic determination of mixed mode stress intensity factors for sharp reentrant corners, 2A621
MAHMOOD, H: Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N14
MAHMOOD, S: Magnetic fluid grinding of ceramic balls, 5T830
MAHMOUD, MS: Robust control scheme for asymptotic tracking of robot motion, 5A368
- Adaptive control of a class of time-delay systems with uncertain parameters, 10A406
MAHMOUD, YD: Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, 6A1006
MAHMUDI, R: Yield loci of anisotropic aluminium sheets, 2A402
- Plastic instability in equi-biaxial deformation of aluminium alloy sheet, 12A673
MAHONEY, B: Experimental validation of a methodology to quantify distributed damage in laminated composites using the thermoelastic effect, 9A541
MAHONY, RE: Gradient algorithms for principal component analysis, 11A69
MAHRT, L: Relationship of surface heat flux to microscale temperature variations: Application to BOREAS, 6T1293
- Bulk aerodynamic formulation over heterogeneous surfaces, 12T1421
MAHZOONI, S: Forces in pile foundations under seismic loading, 6A1272
MAI, TSUN-ZEE: Laminar pulsatile two-phase non-Newtonian flow through a pipe, 6A947
MAI, YIU-WING: Statistical model of residual strength and fatigue life of composite laminates, 2A581
- Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, 3A638
- Fracture mechanics of a new blister test with stable crack growth, 3A720
- Mode-I fracture behavior of adhesive joints - Part II: Stress analysis and constraint parameters, 5A653
- Statistical prediction of fatigue failure of fiber reinforced composite materials, 5A615
- Mode-I fracture behavior of adhesive joints - Part I: Relationship between fracture energy and bond thickness, 5A652
- Determination of Mode II delamination toughness of stitched laminated composites, 6A660
- Effective crack growth and residual strength of composite laminates with a sharp notch, 8A643
- Effective crack growth model for residual strength evaluation of composite laminates with circular holes, 8A644
- Fracture mechanics of a shaft-loaded blister of thin flexible membrane on rigid substrate, 8A665
- Fatigue life prediction of composite laminates using a stress redistribution function, 9A757
- Evaluation of mode-II fracture energy of adhesive joints with different bond thickness, 11A680
- Friction and wear mechanisms of a thermoplastic composite GF/PA6 subjected to different thermal histories, 12A887
- Running-in wear of a steel/SiC_p-Al composite system, 12A910
- Interlaminar fracture of stitched GFRP laminates, 12A756
- Thermal fracture of functionally gradient ceramics, 12A1286
MAIANI, A: Finite element modeling of 1D viscoelastic structures using anelastic displacement fields, 11A9
MAIBACH, J: New analytical solution for the load-deflection of square membranes, 5A354
MAIDANIK, G: Power dissipation in a sprung mass attached to a master structure, 5A134
- Loss factors of pipelike structures containing beads, 10A135
MAIENSCHEIN, JL: Effect of confinement and thermal cycling on the shock initiation of LX-17, 9A331
MAIER, D: Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, 4A904
MAIER, G: Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws, 1A509
- Kinematic criteria of dynamic shakedown extended to nonassociative constitutive laws with saturation nonlinear harding, 3A749
- Symmetric Galerkin BEM in plasticity and gradient plasticity, 6A413
MAIER, RL: Improved air-powered impulsive shear-wave source, 11A1387
MAIER, RS: Fast numerical method for isothermal resin transfer mold filling, 10A593
MAIER-SCHNEIDER, D: New analytical solution for the load-deflection of square membranes, 5A354
MAIGRE, H: Dynamic fracture detection using the force-displacement reciprocity: Application to the compact compression specimen, 6A680
MAILLARD, JP: Advanced time domain wave-number sensing for strutural acoustic systems - Part III: Experiments on active broadband radiation control of a simply supported plate, 3A305
MAILLARD, P: Stability criterion for an infinitely long Hall-Heroult cell, 12A1162
MAIMAN, DJ: Human head-neck biomechanics under axial tension, 11A1454
MAIN, IG: Earthquakes as critical phenomena: Implications for probabilistic seismic hazard analysis, 3A1305
MAIN, JA: Precision position control of piezoelectric actuators using charge feedback, 3A386
MAINIERO, G: Method to reduce the rejection rate for low performance at the acceptance test of PWC PT6T-6 overhauled power sections, 10A1397
MAIR, HU: Neoclassical solution of transient interaction of plane acoustic waves with a spherical elastic shell, 7A340
MAIRANOVSKY, F: Water exchange and water quality in the coastal zone in the presence of structures, 7A292
MAISONNEUVE, O: Energy balance of thermoelastic martensite transformation under stress, 11A1243
MAISSER, P: Dynamics of multibody systems from a continuum view (German), 8A71
MAISSNER, J: Evaluation of stress intensity factors in metals by photoelastic coatings and caustics, 9A861
MAITI, DK: Bending, free vibration and impact response of thick laminated composite plates, 7A152
- Finite element impact analysis of doubly-curved laminated composite shells, 9A36
- Impact response of doubly curved laminated composite shells using higher-order shear deformation theories, 12A597
MAITI, R: Minimum tooth difference in internal-external involute gear pair, 9A999
MAITI, SK: Mode I and mixed-mode stable crack extensions through stiffened three-point bend specimens, 1A799
- Criterion for mixed mode stable crack growth - I: Three point bend geometry, 2A582
- Criterion for mixed mode stable crack growth - II: Compact tension geometry with and without stiffener, 2A583
- Influence of state of stress on mixed mode stable crack growth through D16AT aluminum alloy, 6A652
- Mode II stable crack growth, 8A576
MAIXNER, MR: Role of secondary vorticity in parallel blade-vortex interactions, 11A1069
MAIYA, MP: Thermal performance of an evaporatively cooled building: Parametric studies, 12A1269
MAIZZA, A: Working fluids in non-steady flows for waste energy recovery systems, 11A1313
MAIZZA, V: Working fluids in non-steady flows for waste energy recovery systems, 11A1313
MAJ, A: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
MAJAK, J: Optimal design of axisymmetric plastic shallow shells of von Mises material, 2A467
MAJCHERCZYK, T: Influence of rock bolts on the rock mass parameters, 9A1407
MAJCHRZAK, E: Application of combined BEM-FEM algorithm in numerical modeling of diffusion problems, 12A1247
MAJER, EL: Beyond ray tomography: Wavepaths and Fresnel volumes, 3A1285
MAJERNIK, V: Possibility of thermal solitons, 1T1256
MAJERNIKOVA, E: Possibility of thermal solitons, 1T1256
MAJERUS, JN: Methodology for quantitative error-assessment of FE models, 7A9
MAJHI, MC: Discontinuities in generalized thermoelastic wave propagation in a semi-infinite piezoelectric rod, 6A1167
MAJI, AK: Experimental investigation of tensile fracture in polyurethane foams, 3A718
MAJIMA, O: Multiple delaminations and their severity in circular axisymmetric plates subjected to transverse loading, 10A799
MAJOR, B: Laser microstructure modification of metallic materials, 9A730
MAJORANA, CE: Shear band localization in saturated porous media, 3A1265
- Multiphase medium model for localization and postlocalization simulation in geomaterials, 10A647
MAJUMDAR, A: Fractal model for the rigid-perfectly plastic contact of rough surfaces, 9A506
MAJUMDAR, B: Flow characteristics in a large area ratio curved diffuser, 8A1031
MAJUMDAR, BC: Stability of rough journal bearings using nonlinear transient method, 5A1085
MAJUMDAR, P: Evaporative material removal process with a continuous wave laser, 1A736
- Boundary element method in evaporative laser cutting, 9A106
MAJUMDAR, S: Three dimensional seismic modeling by FE condensation technique, 5A1311
MAJUMDAR, SJ: Pneumatic Systems: Principles and Maintenance, 9N6
- Mechanics of the Tollmien-Schlichting wave, 10A1136
- Three-dimensional effects in cascade-gust interaction, 12A277
MAJUMDER, B: Vibration characteristics of a power tiller, 9A220

MAK, WH: System and parametric identification of flexible connections in steel framed structures, 4A1333
MAKAROV, KA: Analysis of the forming of parts from sheet blanks with electrocontact heating, 9A691
MAKAROV, MM: Operator-splitting schemes for the stream function-vorticity formulation, 2A33
MAKAROV, VA: Method of deflecting an axisymmetric jet propagating on the upper wing surface with a flap, 10T1199
MAKAROVSKII, OA: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512
MAKARUK, H: Dynamics of dipole of finite size in field of two dipoles, 6A4
MAKDISI, FI: Magnitude-dependent variance of peak ground acceleration, 2A1241
MAKER, BN: Augmented Lagrangian quasi-Newton solver for constrained nonlinear FE applications, 4A26
MAKHANYOK, AA: Rheological factors in a thermal problem of local superhigh frequency hyperthermia, 4A1164
MAKHLOUF, HA: Effect of thick concrete cover on the maximum flexural crack width under service load, 11A751
MAKHLOUF, M: Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, 2A1002
MAKHORT, FG: Nonlinear properties of solids and some peculiarities of Rayleigh waves propagation in the bodies with initial stresses, 7A229
MAKHVILADZE, GM: Turbulent buoyant thermal in a density-stratified atmosphere, 7A1222
MAKI, BE: Influence of lateral destabilization on compensatory stepping responses, 6A1326
MAKIN, J: ER shear characteristics: Volume fraction, shear rate, time response, 12A431
MAKINO, A: Bimodal particle dispersion in the nonadiabatic heterogeneous SHS flame propagation, 3T1207
- Transient temperature response of functionally gradient material subjected to partial stepwise heating, 7A1246
- Modeling of graphite oxidation in a stagnation-point flow field using detailed homogeneous and semiglobal heterogeneous mechanisms with comparisons to experiments, 9A1331
MAKINO, E: Ductile-regime turning of quartz crystal, 1A722
- Maskless patterning of gold electrical contacts by laser plating in a flowing solution, 1A437
- Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), 5A569
- Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743
MAKINO, H: Recording and processing of planar curve using clothoids - 1st report: Approximation error of ellipse curve and involute curve with clothoidal interpolation (Japanese), 2A547
- Recording and processing of planar curve using clothoids (2nd Report): Recording of cam profile with clothoidal interpolation (Japanese), 4A849
- Study on data processing of a teaching robot with redundant dof (Japanese), 7A462
- Fundamental analysis of Cycloid Ball Reducer (3rd report): Strength design (Japanese), 7A1022
- Continuous path control using clothoid curves, 9A396
- Study on direct kinematics of Stewart platform: Kinematic analysis by origami solution (Japanese), 12A448
- Calibration of horizontally articulated robot by rotation angle method (Japanese), 12A459
MAKINO, T: Characterization of effective masses and optical gain in strained quantum-well lasers, 6T307
MAKINOUCHI, S: New stage system for step-and-repeat scanning stepper (Japanese), 7T424
MAKISHI, O: Effect of a circumferential rib on film condensation on a horizontal 2D fin tube, 2A1112
MAKLAKOV, DV: Maximum drag of a curved plate in flow with a wake, 4A930
- Aero- and gas dynamics of flight vehicles and their engines: A technique of aerodynamic design of surface effect vehicle airfoil, 8A1014
MAKLAKOV, SF: Influence of the law of dynamic load drop on the deformability of sandy soils, 5T548
MAKODE, PV: Reanalysis of rigid frame structures by the virtual distortion method, 11A733
MAKOWSKI, R: Analysis of surface layers obtained during tribological investigation of low friction additives (Polish), 6A816
MAKRIS, N: Dynamic analysis of viscoelastic fluid dampers, 2A148
- Nonlinear response of single piles under lateral inertial and seismic loads, 5A1322
- Dynamic soil-pile-foundation-structure interaction: Records and predictions, 9A679
- Prediction of observed response of base-isolated structure, 10A1430
- Time-domain analysis of linear hysteretic damping, 12A209
MAKRIS, NC: Parameter resolution bounds that depend on sample size, 10A387
MAKSIMOV, AG: Kink-dynamics of the perturbed sine-Gordon equation, 10A107
MAKSIMOV, AI: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
MAKSIMOV, VF: Numerical modeling of normal punching of a thin obstacle by a deformable body of revolution, 10A537
MAKSIMOVICH, VN: Determination of nonaxisymmetric stress-strained state of solids of revolution with transvere frames (Russian), 3A429
MAL'KOV, VM: Viscoelasticity equations of an elastomer layer, 2A383
MAL, AK: Elastic waves in a composite containing inhomogeneous fibers, 5A180
- Fatigue life prediction of fiber-reinforced titanium matrix composites, 8A583
MALACARA, D: Noisy fringe pattern demodulation by an iterative phase locked loop, 3A730
MALAGNINI, L: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
MALAKHOVA, OZ: Modification of an extremum-based stability criterion for synchronous motions, 10A89
MALALASEKERA, WMG: Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part I: Buoyant diffusion flames, 8A1275
- Comprehensive modeling of turbulent flames with the coherent flame-sheet model - Part II: High-momentum reactive jets, 8A1276
- Radiative heat transfer calculations in 3D complex geometries, 8T1176
MALANOV, SB: Motion of a body along a string under the action of an incident wave, 10A243
MALASOMA, J-M: Analysis of nonlinear oscillations by wavelet transform: Lyapunov exponents, 9A149
- Analytical study of the bifurcations from an equilibrium point, 9T150
MALBRUNOT, P: Storage of gases at room temperature by adsorption at high pressure, 8A1397
MALEK, AM: Control of endothelial cell gene expression by flow, 5A1381
MALEK, J: Non-newtonian flow prediction by divergence-free FEs, 9A41
MALEKI, S: Higher order (HO2) plane-stress finite strip program, 11A435
- Higher order (HO3) plane-stress finite strip program, 11A436
MALENICA, S: Third-harmonic wave diffraction by a vertical cylinder, 4A274
- Wave and current forces on a vertical cylinder free to surge and sway, 5A223
MALHAS, FA: Effect of thick concrete cover on the maximum flexural crack width under service load, 11A751
MALHOTRA, A: Synthesis of spatially and intrinsically constrained curves using simulated annealing, 8A824
MALHOTRA, N: Design of loose type orthotropic flange, 1A607
- Design of orthotropic flat heads, 1A608
- Global dynamics of parametrically excited nonlinear reversible systems with nonsemisimple 1:1 resonance, 6A102
MALHOTRA, NK: Some aspects of destabilization in reversible dynamical systems with application to follower forces, 10T115
MALHOTRA, PK: Base uplifting analysis of flexibly supported liquid-storage tanks, 5A1313
MALHOTRA, VM: Frost resistance of roller-compacted high-volume fly ash concrete, 3A521
MALIK, L: Strain rate effects on fracture toughness of ship plate steels, 11A691
MALIK, M: Differential quadrature method in computational mechanics: A review, 3A53
- Free vibration analysis of tapered rectangular plates by differential quadrature method: A semi-analytical approach, 7A157
- Free vibration analysis of thin cylindrical shells by the differential quadrature method, 7A172
- Semianalytical differential quadrature solution for free-vibration analysis of rectangular plates, 8A118
- Differential quadrature method for irregular domains and application to plate vibration, 8A51
- Implementing multiple boundary conditions in the DQ solution of higher-order PDEs: Application to free vibration of plates, 9A200
- Relative effects of transverse shear deformation and rotatory inertia on the free vibration of symmetric cross-ply laminated plates, 12A190
MALIK, MR: Fundamental and subharmonic secondary instabilities of Gortler vortices, 2A970
- Stability of attachment-line boundary layers - Part 1: The incompressible swept Hiemenz flow, 9A1172
MALIN , PE: Microearthquake S-wave observations from 0 to 1 km in the Varian well at Parkfield, California, 6A1265
MALINOWSKI, L: Relaxation heat conduction and generation: An analysis of the semi-infinite body case by method of Laplace transforms, 7A1238
MALINSKI, M: Registration of delaminations of thin coatings of thick substrates with thermal waves, 1A1292
MALISAN, M: Accuracy comparison of control-volume and Bubnov-Galerkin FEMs for heat conduction problems, 6A1122
MALISKA JR, CR: Finite volume method using Voronoi grids for the solution of miscible displacement in porous media, 3A1253
MALISKA, CR: Finite volume method using Voronoi grids for the solution of miscible displacement in porous media, 3A1253
- Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, 3A43
- Code validation for high-speed flow simulation over satellite launch vehicle, 7A1083
- Comparison of some estationary methods with the GMRES in the petroleum reservoir simulation using non-structured Voronoi grids (Spanish), 8A1373
MALKIN, AY: Nonisothermal effects in the motion of non-Newtonian media with slip at the wall, 5A1149
- Rheokinetics of urea-formaldehyde resins gelation, 9A1036
MALKOV, LB: Study of hydrodynamics in the melt and dope extrusion process in the spinnerette channel, 6A559
MALL, S: Fatigue and Fracture at Elevated Temperatures, AD-Vol 50 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N15
- Compressive behavior of a titanium metal matrix composite with a circular hole, 1A810
- Tension-compression fatigue behavior of fiber-reinforced ceramic matrix composite with circular hole, 1A761
- Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part I: Experiments, 11A637
- Performance of graphite-epoxy composite with embedded optical fibers under compression, 11T474
- Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part II: Analysis, 11A638
- Modeling behavior of cross-ply ceramic matrix composites under quasi-static loading, 12A757
MALLA, RB: Simplified design method for braced double-skinned structure in lunar application, 2A800
- Probabilistic response of truss-type space structure with joint and member imperfections, 5A751
- Constrained layer damping of tubular truss members, 12A188
MALLENS, RMM: Modeling of confined and unconfined laminar premixed flames on slit and tube burners, 5A1257
MALLETT, ER: Numerical study of hypersonic leeward flow over a blunt nosed delta wing, 2A1019
MALLICK, PK: Tensile creep and creep rupture of continuous strand mat polypropylene composites, 4A450
- Elastic response of flexible polyurethane foams in uniaxial tension, 10A584
MALLIER, R: Stuart vortices on a beta-plane, 5T878
MALLIK, AK: Impact dampers for nonlinear vibrating systems, 4A217
- Fabrication of vapor-deposited micro heat pipe arrays as an integral part of semiconductor devices, 5T349
- Periodic response of piecewise nonlinear oscillators under harmonic excitation, 9A161
- Bifurcations and chaos in autonomous self-excited oscillators with impact damping, 10A96
- Impact dampers for controling self-excited oscillation, 12A208
MALLINSON, SG: High-enthalpy, hypersonic compression corner flow, 11A918
MALMLIDEN, JF: Fast iterative method to compute the flow around a submerged body, 12A252
MALONE, B: Aircraft concept optimization using parametric multiobjective figures of merit, 9T962
MALTBY, TC: Investigation into upheaval buckling of buried pipelines - I: Experimental apparatus and some observations, 2A486
- Investigation into upheaval buckling of buried pipelines - II: Theory and analysis of experimental observations, 2A487
MAMAGHANI, IHP: Cyclic behavior of structural steels - I: Experiments, 3A1319
- Cyclic behavior of structural steels - II: Theory, 3A1320
- Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), 5A1325
- Inelastic large deflection analysis of structural steel members under cyclic loading, 12A1407
MAMAI, VI: Model of the deformation of a non-uniformly heated three-layer rod with delaminations, 4A1228
MAMALIS, AG: Static and dynamic axial collapse of fiberglass composite automotive frame rails, 7A579
- Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, 7A558
- Finite-element simulation of axisymmetric preforms in precision forging at elevated temperatures, 10A701
- Simulation of the precision forging of bevel gears using implicit and explicit FE techniques, 10A702
- Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, 11A679
MAMMOLI, AA: Effects of reinforcement geometry on the elastic and plastic behavior of metal matrix composites, 2A423
MAMOU, M: Double-diffusive convection in an inclined slot filled with porous medium, 4A1243
- Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, 4A1169
MAMPAEY, F: Computer simulation of mould filling for horizontal castings and its experimental validation, 2A552
MAN, CHI-SING: Correlation of elastic and plastic anisotropy in sheet metals, 1T469
- Smoothness of the scalar coefficients in the representation $H(A) = \alpha I + \beta A + \gamma A^2$ for isotropic tensor functions of class C^1, 4T1
MAN-KAM YIP, K: Computer-aided heuristic analysis of fluid models, 8A908
MANABE, K: Rigid-plastic FEM analysis of 3D cutting mechanisms - 2nd Report: Simulation of plain milling process (Japanese), 11A600
MANACH, PY: Finite element simulation of 3D mechanical behavior of NiTi shape memory alloys, 3A15
MANASSEH, R: Nonlinear behavior of contained inertia waves, 11A200
MANCINI, T: Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL, 1N36
MANCUSO, M: Formulation and analysis of variational methods for time integration of linear elastodynamics, 4A433
MANDAL, BN: Interface wave diffraction by a thin vertical barrier submerged in the lower fluid, 5A207
- Interface waves due to a vertical cylindrical wavemaker in the presence of interfacial tension, 11A194
MANDAL, SC: Diffraction of elastic waves by two parallel rigid strips embedded in an infinite orthotropic medium, 2A160
MANDEL, J: Scalable Lagrange multiplier based domain decomposition method for time-dependent problems, 4A90
- Convergence of a substructuring method with Lagrange multipliers, 12A75
MANDELL, JF: Influence of fiber-matrix bond strength on the performance of nicalon-CAS-II composite, 12A546
MANDER, JB: Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, 3A783
- Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, 5A712
MANDER, M: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319
MANERO, JM: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
MANEVICH, A: Influence of local postbuckling behavior on bending of thin-walled beams, 10A622
MANEVICH, EL: Influence of boundary conditions on the stability of a periodically stiffened compressed plate, 7A673
MANEVICH, LI: Influence of boundary conditions on the stability of a periodically stiffened compressed plate, 7A673
MANEVITCH, LI: Description of polyethylene crystal as a continuum with internal dof, 9A9
MANFREDINI, GM: Seismic damage hazard analysis for requalification of nuclear power plant structures: Methodology and application, 9A1415
MANG, HA: Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, 6A69
- Computational plasticity of reinforced and prestressed concrete structures, 7A930
- Finite element algorithm for contact problems with friction, 8A33
MANGA, M: Collective hydrodynamics of deformable drops and bubbles in dilute low Reynolds number suspensions, 4A1007
- Dynamics of drops in branched tubes, 11A936
MANGALARAMANAN, SP: Robust limit loads of symmetric and non-symmetric plate structures, 3A534
MANGASARIAN, OL: Parallel gradient distribution in unconstrained optimization, 4T355
MANGLIK, RM: Effect of eccentricity and thermal boundary conditions on laminar fully developed flow in annular ducts, 1A1175
- Viscous dissipation in non-Newtonian flows: Implications for the Nusselt number, 3A1063
- Analytical solutions for laminar fully developed flows in double-sine shaped ducts, 10A1248
MANIATTY, AM: Effect of elasticity on slip system activity in face-centered cubic crystals: A numerical study, 6A381

- Effect of skew angle on the axial pressure distribution between flexible rubber-covered rollers, 8A390
- Shape sensitivity analysis for steady metal-forming processes, 9A703

MANICKAM, S: Parametric stress analysis of bonded "combination-materials" type of orthodontic brackets, 11T1481
- Effect of debonding forces on bonded orthodontic brackets: FE study, 11A1480

MANIRUZZAMAN, M: Effects of stress ratio on fatigue life of carbon-carbon composites, 4A669

MANJUNATH, AR: Flap-lag-torsion stability in hover and forward flight with 3D wake, 6A222

MANKBADI, RR: Transition, Turbulence, and Noise: Theory and Applications for Scientists and Engineers, 1R24
- Computational Aeroacoustics - 1995 ASME/JSME Fluids Eng Conf, 2N35
- Evaluation of boundary conditions for computational aeroacoustics, 4A327
- Prediction of the far-field jet noise using Kirchhoff's formulation, 7T322

MANKEVICH, VN: Cooling of a superheated surface with a jet mist flow, 11A1178

MANN III, JA: Examples of using structural intensity and the force distribution to study vibrating plates, 6A131
- Measuring the structural intensity and force distribution in plates, 6A137
- Sensitivity of the wave-number domain field separation method for scattering, 12A310

MANNAN, SL: Comparative study of tensile flow parameters in forged and rolled 9Cr-1Mo steel, 9A509

MANNEVILLE, P: Hydrodynamics and Nonlinear Instabilities - Collection Alea-Saclay: Monographs and Texts in Statistical Physics 3, 7N23

MANNEVILLE, S: Decomposition of the time reversal operator: Detection and selective focusing on two scatterers, 9A381

MANNING, SD: Simple second-order approximation for stochastic crack-growth analysis, 8A603

MANNINI, A: Structural optimization with parameter-transfer FE, 1A881

MANOHAR, CS: Critical earthquake input power spectral density function models for engineering structures, 5A1331
- Critical cross-power spectral density functions and the highest response of multi-supported structures subjected to multi-component earthquake excitations, 8A1337
- Dynamic stiffness matrix of a general cable element, 10A162

MANOLAKOS, DE: Static and dynamic axial collapse of fiberglass composite automotive frame rails, 7A579
- Analysis of failure mechanisms observed in axial collapse of thin-walled circular fiberglass composite tubes, 7A558
- Finite-element simulation of axisymmetric preforms in precision forging at elevated temperatures, 10A701
- Simulation of the precision forging of bevel gears using implicit and explicit FE techniques, 10A702
- Energy absorption capability of fiberglass composite square frusta subjected to static and dynamic axial collapse, 11A679

MANOLAS, D: Genetic algorithm for active noise control actuator positioning, 5A278

MANOLE, DM: Numerical simulation of supercritical Hadley circulation, within a porous layer, induced by inclined temperature gradients, 1A1198

MANOLIS, GD: Wave motions in stochastic heterogeneous media: A Green's function approach, 3A268
- Seismic analysis of buried pipeline in a 3D soil continuum, 4A1328
- Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - I: Fundamental solutions, 8A171
- Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - II: Applications, 8A172
- Boundary integral formulation for 2D and 3D thermal problems exhibiting a linearly varying stochastic conductivity, 10A1293

MANOOCHEHRI, S: Geometric influence of a molded part on the draw direction range and parting line locations, 8A547
- Shape optimization method based on implicit differentiation and node removal techniques, 8A724

MANOOGIAN, ME: Diffraction of SH-waves by subsurface inclusions of arbitrary shape, 7A243

MANOR, G: Automatic field machine technology, 5A734

MANORANJAN, VS: Analytic solutions for contaminant transport under nonequilibrium conditions, 3A1189
- Exact solution for contaminant transport with nonlinear sorption, 6A1185
- Method of dynamic mesh adaptation, 9A97

MANOUZI, H: Analysis of non-singular solutions of a mixed Navier-Stokes formulation, 8A905

MANOV, DV: Reliable and economical high-temperature deep-borehole seismic recording, 11A1394

MANRING, ND: Modeling and designing a variable-displacement open-loop pump, 12A426

MANSEUR, R: Structural kinematics of 6-revolute-axis robot manipulators, 11A387

MANSFIELD, JP: Using acoustic reflectometry to determine breathing tube position and patency, 6A1369

MANSINHA, L: Triggering by aftershocks by the free oscillations of the Earth, 11A1358

MANSKI, D: Influence of rocket design parameters on engine nozzle efficiencies, 6A1208

MANSON, G: Pseudo-fault induction in engineering structure: Multi-input multi-output control, 4A124
- Simple criterion for establishing an upper limit to the harmonic excitation level of the Duffing oscillator using the Volterra series, 8A92

MANSON, JR: Accurate numerical algorithm for advective transport, 5A1207
- Limitations of traditional finite volume discretizations for unsteady computational fluid dynamics, 10T38

MANSOUR, AE: Return periods and encounter probabilities, 5A1339

MANSOUR, JM: Experimentally based nonlinear viscoelastic model of joint passive moment, 8A1421

MANSOUR, MA: Unsteady natural convection from a heated vertical plate in micropolar fluid, 1A1185

MANSOUR, MY: Bond strength of noncontact tension lap splices, 11A747

MANSOUR, NN: Transition to turbulence in an elliptic vortex, 7A1123
- Topology of fine-scale motions in turbulent channel flow, 9A1188

MANSUR, MA: Investigation into the behavior and strength of bolted connections in ferrocement, 1A951
- Reinforced concrete T-beams with large web openings in positive and negative moment regions, 11A761
- Stress-strain relationship of high-strength concrete in compression, 11A473

MANSUR, WJ: Time-domain BEM analysis for the 2D scalar wave equation: Initial conditions contributions to space and time derivatives, 12A312

MANTELLI, MBH: Experimental determination of overall thermal resistances of satellite bolted joints, 6T1116

MANTENA, PR: Optimal pultrusion process conditions for improving the dynamic properties of graphite-epoxy composite beams, 8A559
- Dynamic mechanical analysis of pultruded glass-graphite-epoxy hybrid composites at elevated temperatures, 10A588
- Dynamic and static torsional characterization of pultruded hybrid cylindrical composite rods, 12A569

MANTEUFFEL, TA: Hybrid iterative methods for nonsymmetric systems of linear equations, 12A65

MANTHEY, JL: Low-dissipation and low-dispersion Runge-Kutta schemes for computational acoustics, 8T257

MANTIC, V: Explicit formulae of the integral kernels and C-matrix in the 2D Somigliana identity for orthotropic materials, 3A439
- Existence and evaluation of the two free terms in the hypersingular boundary integral equation of potential theory, 8A58

MANTOVANI, M: Study of the forced response of a clamped circular plate coupled to a uni-dimensional acoustic cavity, 8A119

MANTRALA, SK: Performance of new sandwich tube under axial loading: Experiment, 6A501
- Performance of new sandwich tube under axial loading: Analysis, 6A502

MANUEL, L: Influence of alternative wave loading and support modeling assumptions on jack-up rig response extremes, 11A216

MANZAN, M: Streamfunction-vorticity-based FE formulation for laminar-convection problems, 1A1226
- Accuracy comparison of control-volume and Bubnov-Galerkin FEMs for heat conduction problems, 6A1122

MANZARI, MT: Finite deformation dynamic analysis of saturated soils, 10A660

MANZHIROV, AV: General non-inertial initial-boundary-value problem for a viscoelastic aging solid with piecewise-continuous accretion, 8A415

MAO, CHENG XIONG: Coupled torsional-flexural vibration of shaft systems in mechanical engineering - I: FE model, 4A182
- Coupled torsional-flexural vibration of shaft systems in mechanical engineering - II: FE-TM impedance coupling method, 4A183

MAO, FUHE: Minimization of NO during staged combustion of CH_3NH_2, 11A1282

MAO, JH: Curvature sensing: A new concept in tracing technology, 6A375

MAO, K: Numerical model for the dry sliding contact of layered elastic bodies with rough surfaces, 8T797

MAO, R: Free vibration of thick-walled laminated conical tubes, 8A124

MAO, SG: Symplectic integration and nonlinear dynamic symmetry breaking of frames, 3A147

MAO, WENQUN: Numerical simulation of transient planar flow of a viscoelastic material with two moving free surfaces, 5A427

MAO, X: Thermodynamic analysis on the role of hydrogen in anodic stress corrosion cracking, 3A658

MAO, YI: Nonlinear coupling between the surface and volume modes of an oscillating bubble, 3A938

MAO, Z: Stability analysis of a robust PD control law for robot manipulators, 11A266

MAO, ZAI-SHA: Numerical analysis of higher order harmonics in the response of a mass transfer probe, 1A1304

MARTIN, BN: Analysis of the forming of parts from sheet blanks with electrocontact heating, 9A691

MARADUDIN, AA: Scattering of a scalar wave from a 2D randomly rough Neumann surface, 3A188

MARAGAKIS, E: Parameters in bridge restrainer design for seismic retrofit, 6A1283
- Disturbance rejection control of bridge response to earthquake excitation, 8A1338

MARAIS, JJ: Thermal fatigue of steel tires on urban railway systems, 4A1232

MARANDA, A: Joints of steel-brass one-side welded by explosive method, 9A718
- Investigations of the combustion products of aluminum in explosion processes, 9A332

MARANGES, C: Numerical study of an unsteady confined jet: Application to crossflow filtration, 9A1167

MARANGONI, RD: Finite element analysis of the frictional forces between a cylindrical bearing element and MoS_2 coated and uncoated surfaces, 12A883

MARASCO, A: Dynamics of closed-die forging with mechanical presses, 5A852

MARATHE, B: Structure of tip clearance flow in axial flow compressors, 5A1062

MARBAN, G: Characterizing fuels for atmospheric fluidized bed combustion, 1A1332

MARBOE, RC: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7

MARCAK, H: Changes of total porosity and skeleton volumes in elastic porous media (Polish), 3A1262

MARCELIN, J-L: Optimal constrained layer damping of beams: Experimental and numerical studies, 3A122

MARCELIN, JL: Optimal structural damping of skis using a genetic algorithm, 2A146

MARCHANT, TR: Modeling microwave heating, 5A1175
- Soliton interaction for the extended Korteweg-de Vries equation, 12A243
- Evolution and interaction of Marangoni-Benard solitary waves, 12A241

MARCHENKO, AV: Hamiltonian approach to the investigation of the potential motions of an ideal fluid, 1A1006

MARCHESE, AJ: Effect of liquid mass transport on the combustion and extinction of bicomponent droplets of methanol and water, 9A1326

MARCHESE, B: Analysis of steel fiber pull-out from a cement matrix using video photography, 10A573

MARCHETTI, E: Numerical solution of the generalized Prandtl equation using variation-diminishing splines, 3A996

MARCHI, CH: Code validation for high-speed flow simulation over satellite launch vehicle, 7A1083

MARCHIORO, C: Growth of the velocity support for an incompressible nonviscous fluid in a 2D exterior domain, 6A896
- Confinement result on a quasigeostrophic flow in the f-plane, 8A1354

MARCHON, B: Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769

MARCHUK, AV: Model of the layered plate with nonideal contact of the layers (Russian), 7A568
- Calculation of laminar orthotropic plates in spatial statement, 7A625

MARCI, G: Determination of the partitioning point dividing ΔK into ΔK_{eff}, 5A587

MARCINCIN, A: Carpet fibers from poly-e-caprolactam with improved elastic properties, 6A456

MARCINCINOVA, T: Carpet fibers from poly-e-caprolactam with improved elastic properties, 6A456

MARCINOWSKI, J: Instability of the elastic shell with geometrical imperfections, 9A632

MARCO, S: Dynamic simulations of micropumps, 10T455

MARCOK, M: Effect of ultrasonic waves on the penetration of creosote into spruce wood, 11T251

MARCONDES, F: Comparison of some estationary methods with the GMRES in the petroleum reservoir simulation using non-structured Voronoi grids (Spanish), 8A1373

MARCUM , DL: Unstructured grid generation using iterative point insertion and local reconnection, 2A899

MARCUM, DL: Procedure for efficient generation of solution adapted unstructured grids, 4A65

MARCUS, JH: Determination of effective thoracic mass, 6A1350

MARCUS, MH: Structural acoustics and active control of interior noise in a ribbed cylindrical shell, 12A298

MARCUS, PS: Spectral method for polar coordinates, 1A61

MARCUS, S: Vibrational imperfection sensitivity of Augusti's model structure in the vicinity of nonlinear static state, 10A875

MARCUSON III, WF: Seismic rehabilitation of earth dams, 6A544

MARCZAK, M: Research of non-wear effect in material system: Steel-brass-glycerine (Polish), 6A837

MARCZAK, R: Operation surface layer and its investigation (Polish), 6T825
- Research of non-wear effect in material system: Steel-brass-glycerine (Polish), 6A837

MARDEL, SN: Computer model of major haemorrhage and resuscitation, 11A1463

MARDER, AR: Effect of circulating fluidized bed particle characteristics on erosion of 1020 carbon steel, 3A1260

MARDINI, JA: Heat and mass transfer in wooden dowels during a simulated fire: An experimental and analytical study, 11A1295

MARE, JC: Self-tuning generalized predictive control of an electrohydraulic actuator, 10T477

MAREE, GJM: Slow passage through a pitchfork bifurcation, 11A96

MAREK, M: Chaotic Behavior of Deterministic Dissipative Systems, 8R3

MAREK, P: Development of plastic zones and residual stress in elasto-plastic contact problems with stress singularities in elastic range, 4A458

MARESCA, C: Aerodynamic interaction study of the propeller-wing under different flow configurations, 7A1178

MARESCA, R: Measurements of intrinsic and scattering seismic attenuation in the crust, 3A1310

MARGHERITI, L: Site amplification at five locations in San Francisco, California: A comparison of S waves, codas, and microtremors, 12A1386

MARGHITU, DB: Three dimensional rigid-body collisions with multiple contact points, 5A79
- Nonlinear dynamics of an elastic rod with frictional impact, 12A117

MARGINSON, HJ: Limitations of thin film microtransducers in highly loaded contacts, 6T799

MARGOLIN, LG: Enslaved finite difference schemes for nonlinear dissipative PDEs, 5A39

MARGOLIS, SB: Influence of porosity and two-phase flow on diffusional-thermal instability of a deflagrating energetic material, 3A1221

MARIANI, A: Effect of the tube diameter on the critical heat flux in subcooled flow boiling, 8T1134

MARIANO, PA: Fracture in structured continua, 1A830

MARIANO, PM: Introduction to computational models of damage dynamics under stochastic actions, 9A117
- Nother's theorem in the elastic dynamics of microcracked bodies, 11T694

MARIAPPAN, J: Generalized exact gradient method for mechanism synthesis, 9A1017

MARIC, P: Estimation of geometrical parameters for modular robots, 12A460

MARIKHIN, VA: High-strength polyethylene film fibers, 6A460

MARIN, EB: Aggregate size effect on the predicted plastic response of hexagonal close-packed polycrystals, 6A404

MARIN, JC: Simplified numerical analysis of residual stresses in aluminum welded plates, 3A441

MARIN, LE: Techniques in numerical simulation of coastal aquifiers with salt intrusion (Spanish), 4T922

MARIN, M: Basic theorems in elastostatics of micropolar materials with voids, 12A1351

MARIN, O: Wideband correlated-κ method applied to absorbing, emitting, and scattering media, 10A1301

MARINETTI, A: Sinusoidal stiffness matrix for buckling and vibration analyses of rectangular Mindlin plates, 4A172

MARINETTI, S: Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, 4A1202

MARINI, D: Mixed FE approximation of a degenerate elliptic problem, 1A29

MARINOSCHI, G: Analytical approach of the solutions of nonadiabatic motion in radiative magnetogasdynamics, 8A992
- Considerations about the effective macrodispersion coefficient, 11A1269

MARIOTTI, GV: Stress concentration factor in collar and shouldered shafts in torsion, 5A842

MARISSEN, R: Notched strength of thermoplastic woven fabric composites, 1A818

MARJANOVIC, M: Stresses in moving linear body, 1T866

MARK, J: Initial-boundary value problems in linear viscoelasticity on the half-space, 4A444

MARKATIS, S: Constitutive branching in compressible elastic materials, 9A473

MARKAZI, AHD: New approach to the design of digital model reference control systems, 6A339

MARKEEV, AA: Stability of a plane periodic motion of a rigid body between two parallel walls, 3A87

MARKEEV, AP: Third-order resonance in a nearly Hamiltonian system with 1-dof, 5A93
- Parametric resonance and nonlinear vibrations of a heavy rigid body in a neighborhood of its planar rotations, 10A113

MARKEL, MD: Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, 7T1420
MARKEYEV, AP: Behavior of a nonlinear Hamiltonian system with 1 dof at the boundary of a parametric resonance domain, 7A101
- Stability of the equilibrium of a pendulum for vertical oscillations of the point of suspension, 12A93
MARKGRAF, JFW: Irradiation devices and irradiation programs at the high flux reactor Petten for the investigation of the irradiation behavior of stainless steels, 3A1362
MARKHAM, JR: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
MARKIEWICZ, A: Effect of friction on multibody dynamics, 3A84
MARKIEWICZ, D: Stress analysis of an orthotropic work-hardening cylinder with body force, 3A472
MARKIEWICZ, M: Optimum dynamic characteristics of Stockbridge dampers for dead-end spans, 6A172
MARKINE, VL: Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approximation, 10A214
MARKLEY, FL: Kepler equation solver, 10A334
MARKLEY, R: Systems design of a satellite link protocol, 7A303
MARKOCHEV, VM: Model of a failing elastoplastic body with a crack, 5A660
MARKOV, DP: Wear resistance of rail and wheel steels, 5A818
- Tribological characteristics of the wheel-rail pair, 5A780
MARKOV, KZ: Functional series and Hashin-Shtrikman type bounds on the effective conductivity of random media, 5A462
- Stationary diffusion in heterogeneous media, 12A1291
MARKOV, YG: Vibrations of a rotating viscoelastic axisymmetric body under surface load, 5A102
MARKOVA, LV: Experimental study of metallic contact spots formation, 6A834
MARKOVICH, D: Novel equipment and Technology for tilling the soil, 6A539
- Optimization of novel mechanisms for driving active tools of agricultural tilling machines, 7T1018
- Optimization of rotary effectors of a modular system for performing a set of operations, 10A1027
MARKUS , S: Dispersion properties of three-layered orthotropic shells, 7A626
MARKUS, A: Process planning with genetic algorithms on results of knowledge-based reasoning, 8A367
MARKUS, S: Role of structural damping in mechanical engineering, 12A139
MARLOW, DO: Modeling direct-fired annealing furnaces for transient operations, 5A1236
MARN, J: Analysis of fluidelastic instability of air-water mixture, 10A299
MAROJU, V: Component mode synthesis-based design optimization method for local structural modification, 3A752
MAROM, G: Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, 6A424
MARONSKI, R: Minimum-time running and swimming: An optimal control approach, 6A1380
MAROPOULOS, PG: Novel process planning achitecture for product-based manufacture, 2A328
- Intelligent tool selection system, 7A743
MAROTTA, EE: Thermal contact conductance of diamond-like films, 6A1118
- Thermal contact conductance of refractory ceramic coatings, 6A1119
- Thermal contact conductance of selected polymeric materials, 10A1290
MAROTTI DE SCIARRA, F: Extremum theorems and a computational algorithm for an internal variable model of elastoplasticity, 4A463
- Automatic analysis of multicell thin-walled sections, 9A950
MARQUARDT, W: Stability of boiling systems, 12A1232
MARQUES, AT: Optimization of laminated composite structures using a bilevel strategy, 7A908
- Mechanical behavior of cementitious matrix composites, 10A570
MARQUETTE, OR: Extended three-control-volume theory for circumferentially-grooved liquid seals, 10A1018
MARQUEZ Z, G: Laminar fluid transients in conduits of arbitrary cross section, 2A1305
MARQUEZ, A: Fixed-eye direct visual feedback control of planar robots, 5A371
MARQUINA, A: Capturing shock reflections: An improved flux formula, 9T292
MARQUIS, AJ: Application of a strain gauge technique to the measurement of the power characteristics of five impellers, 5A1042
MARRAS, WS: EMG-assisted model of trunk loading during free-dynamic lifting, 2A1289
MARRIOTT, DL: Design for Creep, Second Edition, 9R8
MARRUCCI, G: Dynamics of entanglements: A nonlinear model consistent with the Cox-Merz rule, 8A857
MARSAULT, N: Lubrication of strip rolling in the low-speed mixed regime, 8A1039
MARSCHALL, E: Influence of surface preparation on thermal contact conductance of stainless steel and aluminum, 6A1117
MARSDEN, JE: Pattern evocation and geometric phases in mechanical systems with symmetry, 6A71
MARSH, C: Application of Learning Automata to controller design in slow-active automobile suspensions, 1A407
MARSH, D: Algorithm to generate the transition curve of the planar four-bar mechanism, 9A1019
MARSH, RDL: Dynamic optical birefringence: New possibilities in polymer characterization, 4A894
MARSHAKOV, AV: Direct measurement of skin friction in a turbine cascade, 8A960
MARSHALL JR, GW: Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, 9A1441
MARSHALL, AR: Stellar alignment of the high resolution Doppler image, 3A242
MARSHALL, IH: Failure envelopes for notched CSM laminates under biaxial loading, 2A647
- Eighth International conference on composite structures, 2A419
- Damage tolerance of CSM laminates subject to low velocity oblique impacts, 7A869
MARSHALL, JG: Review of aeroelasticity methods with emphasis on turbomachinery applications, 11A230
MARSHALL, JS: Penetration of a blade into a vortex core: Vorticity response and unsteady blade forces, 7A1057
MARSHALL, RTJ: Multipass rheometer, 4A914
MARSHALL, SJ: Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, 9A1441
MARSHEK, KM: Determination of load distribution in a threaded connector with yielding threads, 6A405
MARSIK, F: Theory of embedded shock formation in rarefaction waves by homogeneous condensation, 8A212
MARSTON, KC: Film cooling of the gas turbine endwall by discrete-hole injection, 11A1040
MARSTON, PL: Ultrasonic four-wave mixing mediated by an aqueous suspension of microspheres: Theoretical steady-state properties, 1A321
- Free decay of shape oscillations of bubbles acoustically trapped in water and sea water, 4A1012
- Traveling-wave decomposition of surface displacements associated with scattering by a cylindrical shell: Numerical evaluation displaying guided forward and backward wave properties, 5A275
MARTA SERON, M: Sensitivity limitations in nonlinear feedback control, 11T268
MARTEL, CR: Surface effects on deposits from jet fuels, 10A1374
MARTELL, CA: Adjoint variable solutions via an auxiliary optimization problem, 4T345
MARTELLI, F: Investigation of the flow field downstream of a turbine trailing edge cooled nozzle guide vane, 11A1066
MARTENS, L: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
MARTI , K: Optimal trajectory planning for robots under the consideration of stochastic parameters and disturbances, 7A455
MARTIN , FL: Experimental study of wave-induced flow in a porous structure, 5T202
MARTIN , R: Second order defect correction scheme for unsteady problems, 6A913
MARTIN IV, RC: Direct optimization of gain scheduled controllers via genetic algorithms, 11A275
MARTIN, A: Wear of SiC-reinforced Al-matrix composites in the temperature range 20-200° C, 12A921
MARTIN, AJ: Powder particle structure formation during solidification in the process of metal atomization, 6A1171
MARTIN, AR: Three-dimensional fluid flow and heat transfer analysis of grate blocks in a waste-to-energy power plant, 12A1225
MARTIN, CF: Inverse problem of a linear dynamic system with noise, 5T316
- Quadrature schemes for a general family of functions, 11A71
MARTIN, F: Axial force test and modeling of the V-belt continuously variable transmission for mopeds, 12A949
MARTIN, FA: Dynamically loaded journal bearings: Position of maximum pressure ratio, 5T826
MARTIN, G: Fabrication of an electrostatic wobble micromotor using deep-etch UV lithography, nickel electroforming and a titanium sacrificial layer, 6T347
MARTIN, GT: Transient spherical source method to determine thermal conductivity of liquids and gels, 7A1253
MARTIN, H: Rayleigh-Benard convection in a tube bank: Experimental verification of a simple model (German), 3T1052
MARTIN, JA: Delta improvement study: Hydrogen upper stage, 4A1269
- Russian RD-704 for single-stage vehicles, 10T951
MARTIN, JE: Calculation of stresses in crosslinking polymers, 8A471
MARTIN, JG: Analysis of the thermal performance of dynamic solar systems, 8A1164
MARTIN, JT: Analysis of constraint in single edge notch tension specimens using the T-stress, 1A787
MARTIN, JW: Fatigue damage in aluminium single crystals - Part I: On the surface containing the slip Burgers vector, 2A577
- Influence of crystal orientation on the high temperature fatigue crack growth of a NI-based single crystal superalloy, 5A596
MARTIN, LV: Zooplankton target strength: Volumetric or areal dependence?, 1A312
MARTIN, MB: Effect of divergent self-monitoring strategies on motor performance and emotion as a function of alternating task complexity, 12T1460
MARTIN, MJ: Scaling bacterial filtration rates in different sized porous media, 10A1126
MARTIN, MT: Impact force location in frame structures, 5A195
- Impact force identification from wave propagation responses, 5A194
MARTIN, P: Behavior of the SMF method for the numerical integration of satellite orbits, 10A325
MARTIN, PA: Fluid-solid interaction: Acoustic scattering by a smooth elastic obstacle, 1A258
- Partitioning, boundary integral equations, and exact Green's functions, 3A45
- Hypersingular integrals: How smooth must the density be, 7A55
MARTIN, PR: Resonant transmission of a 3D acoustic sound beam through a solid plate in air: Theory and measurement, 3A250
MARTIN, R: Modeling of thermal stresses during an electron-beam welding process, 10A1329
MARTIN, RB: Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316
MARTIN, RH: Composite Materials: Fatigue and Fracture, Fifth Volume, 6N21
MARTIN, RR: Tools for asymmetry rectification in shape design, 10A881
MARTIN-MEIZOSO, A: Interactive effect of multiple crack growth on fatigue, 2A587
MARTIN-ROSSET, W: Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, 6T1331
MARTINDALE, SC: New design for model reference robust control using state-space techniques, 3A337
MARTINELLI, A: Tearing modulus, J-integral, CTOA and crack profile shape obtained from the load-displacement curve only, 6A653
MARTINELLI, D: Radar signal interpretation using neural network for defect detection in concrete, 8A344
MARTINEZ, H: Experimental and theoretical determination of concentration profiles and influence of particle characteristics in blowing snow, 3A1391
MARTINEZ, J: Convolution application to determine the dynamic response of a railway track, 5A151
MARTINEZ, JMR: Application of screw algebra to the acceleration analysis of serial chains, 9A135
MARTINEZ, MA: Wear of SiC-reinforced Al-matrix composites in the temperature range 20-200° C, 12A921
MARTINEZ, R: Asymptotic theory of broadband rotor thrust - Part I: Manipulations of flow probabilities for a high number of blades, 9A230
- Asymptotic theory of broadband rotor thrust - Part II: Analysis of the right frequency shift of the maximum response, 9A231
MARTINEZ-BOTAS, RF: Heat transfer measurements in an annular cascade of transonic gas turbine blades using the transient liquid crystal technique, 5A1080
MARTINEZ-ESNAOLA, JM: Coating cracks in materials with general anisotropy, 1A826
- Interactive effect of multiple crack growth on fatigue, 2A587
- Analytical approach to the stress field in the extrusion of bimetallic tubes, 9A695
MARTINEZ-RUEDA, JE: Novel technique for the retrofitting of reinforced concrete structures, 1A1396
MARTINEZ-SANCHEZ, M: Measurement of turbine blade-tip rotordynamic excitation forces, 5A1058
- Two-fluid nonequilibrium simulation of hydrogen arcjet thrusters, 6A1218
MARTINEZ-VAL, R: Minimum induced drag of a three-surface ultra high capacity aircraft, 2A1034
MARTINS, JAC: Dissipative graph solutions for a 2 dof quasistatic frictional contact problem, 2A386
- Dynamic surface solutions in linear elasticity and viscoelasticity with frictional boundary conditions, 5A391
MARTINS, LC: Compatibility conditions for the Cauchy-Green strain fields: Solutions for the plane case, 2A354
MARTINS, N: New instrument for radiation heat flux measurement: Analysis and parameter selection, 2A1138
MARTINS, PAF: Review of research into the injection forging of tubular materials, 3A606
- Animation of FE models of metal forming processes, 5A561
- Fracture predicting in bulk metal forming, 7A720
MARTINS-COSTA, ML: Constitutive relations for the energy transfer in nonsaturated continuous mixtures, 8A3
MARTIO, O: Fluid flow in a medium distorted by a quasiconformal map can produce fractal boundaries, 8A1311
MARTYNENKO, OG: Nonstationary convection near a vertical surface with periodic change in heat flux, 6A1079
- Stable vortex structures in axisymmetric convective torch during oscillating combustion, 7A1340
MARTYNENKO, YG: Nutation of a solid in a non-contact suspension, 5A85
MARTYNOV, BB: Problems of strength and aeroelasticity of state-of-the-art propfans, 10A318
MARTYNYAK, RM: Discontinuous contact of an anisotropic half-plane and a rigid base with disturbed surface, 5A408
MARTYNYUK, AA: Aggregation forms under study of motion stability of large-scale systems - Stability criteria: Survey, 9A140
MARTYNYUK, VA: Stability of weakly-connected nonlinear systems (Russian), 7A97
MARUI, E: Experimental research in cutting force variation during primary chatter vibration occurring in plain milling operation, 4A210
- Damping characteristics of an impact damper and its application, 5A109
- Effects of slots on the lateral vibration of circular saw blade, 12A161
MARUKAWA, H: Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210
MARUMOTO, S: Residual compressive strength of concrete under constant cyclic loads and reliability analysis of reinforced concrete column (Japanese), 2A762
MARUR, PR: Inertia effect in Charpy impact tests, 4T762
- Two dof modeling of pre-cracked beams under impact, 7A851
- Engineering approach to impact analysis of notched beams by conventional beam elements, 10A273
MARUSAK, R: Transport phenomena in picoliter size solder droplet dispension, 8A1117
MARUSIC, I: Wall-wake model for the turbulence structure of boundary layers - Part 2: Further experimental support, 2A985
- Wall-wake model for the turbulence structure of boundary layers - Part 1: Extension of the attached eddy hypothesis, 2A940
MARUSICH, TD: Modeling and simulation of high-speed machining, 4A639
MARUYAMA, H: Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
MARUYAMA, K: Study of proposed design equation for the shear strength of R-C beams subjected to axial tension (Japanese), 2A764
- Development of noncontact-stereovision-type probe for 3D coordinate measuring machine, 3A746
MARUYAMA, M: Development of optical apparatus for measuring small hole diameter (Japanese), 7A873
MARUYAMA, N: Initial temperature evaluation for flash temperature index of gear tooth, 5T821
MARUYAMA, T: Asphalt pavement structural design for railway container yards (Japanese), 2A528
- Fundamental study on strain dispersion function of the grid panel type buried joint (Japanese), 9A879
MARVIN, JG: Perspective on computational fluid dynamics validation, 3A922
MARX , S: Friction and wear of highly stressed thermoplastic bearings under dry sliding conditions, 12A889
MARYNIAK, GE: Status of international experimentation in wireless power transmission, 8A1391
MARYNOWSKI, K: Stability of symmetrical rotor supported in flexibly mounted, self-acting gas journal bearings, 12A962
MARZANO, S: Nonlinear elastic deformations and stability of laminated rubber bearings, 2A816
MARZOCCHI, W: Detecting low-dimensional chaos in time series of finite length generated from discrete parameter processes, 7A107
MASAD, J: Computation of linear instability eigenvalue subject to perturbations in mean-flow and stability parameters, 1A1075
MASAD, JA: Transition in supersonic and hypersonic boundary layers, 2A946
- Three-dimensional boundary-layer transition on a swept wing at Mach 3.5, 4A1025
- Effect of laminar flow control by suction on separation, 12T1096
MASCAGNI, MD: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
MASCORRO, E: Failure prediction for cross-rolled beryllium sheet material, 10A539
MASE, H: Frequency down-shift of swash oscillations compared to incident waves, 1A230

- Wave equation over permeable rippled bed and analysis of Bragg scattering of surface gravity waves, 7A270
MASHAIE, A: Estimated error bounds for FE solutions of elliptic boundary value problems, 12A17
MASHAYEK, F: Spino-flux method for simulating free surface flows, 5T62
MASIANI, R: Masonry as structured continuum, 5A465
- Non-Gaussian solution for random rocking of slender rigid block, 9A688
- Motion of a rigid body with a rounded base due to harmonic excitation, 10A110
MASJUKI, H: Investigations on preheated palm oil methyl esters in the diesel engine, 10A1388
MASKAEV, VK: Heat transfer in a circulating fluidized bed with secondary air injection, 5A1302
MASLEHUDDIN, M: Influence of some parameters relevant to the Arabain Gulf environment on corrosion of reinforcing steel in concrete, 2A594
- Effect of temperature and salt contamination on carbonation of cements, 11A469
MASLEN, EH: Positive real zeros in flexible beams, 3A769
- Rotor whirl in compliant auxiliary bearings, 10A1015
MASLIYAH, JH: Instability and transitions of flow in a curved square duct: The development of two pairs of Dean vortices, 11A964
MASLOV, KI: Spherical inclusion characterization by the acoustical microscope: Axisymmetric case, 6A248
MASLOWSKI, E: Polish carbon biomaterials and their use in medicine, 6T1355
MASMOUDI, R: Flexural response of concrete beams reinforced with FRP reinforcing bars, 7A937
MASNATA, A: Neural network classification of flaws detected by ultrasonic means, 12A430
MASO, JC: Interfacial Transition Zone in Concrete - RILEM Reports Series 11, 10N21
MASON, AA: Measured performance and modeling of an evacuated-tube, integral-collector-storage solar water heater, 3A1384
MASON, AM: Weibull analysis of the strength of carbon fibers using linear and power law models for the length effect, 2A605
MASON, DE: Single-phase energy minimizers for materials with nonlocal spatial dependence, 7A489
MASON, IM: Accurate formulation of log-stretch dip moveout in the frequency-wavenumber domain, 11A1366
MASON, PJ: New finite-difference diffusion scheme, 9A89
MASON, VB: Reduction of sound radiated from vibrating structures via active control of local volume velocity, 6A247
MASON, WH: Aircraft concept optimization using parametric multiobjective figures of merit, 9T962
- Structural weight estimation for multidisciplinary optimization of a high-speed civil transport, 11A797
MASONJONES, MC: Biarene formation during pyrolysis of a mixture of anthracene and naphthalene, 7A1313
MASORY, O: Measurement of pose repeatability of Stewart Platform, 4A414
MASOUNAVE, J: Si-modified ZA alloy for journal bearing applications, 10A996
MASPEYROT, P: Cavitation in dynamically loaded journal bearings using mobility method, 12A1189
MASRI, AR: Lifted flames and the effects of inhibitors, 2A1184
MASRI, SF: Adaptive stochastic optimization using multiprocessors, 1A63
- Modeling unknown structural systems through the use of neural networks, 7A1384
- Response of impact dampers with granular materials under random excitation, 8A157
- Neural network approach to detection of changes in structural parameters, 10A399
MASROURI, F: Behavioral study of a reinforced analogical soil under external loads, 12A656
MASSARDO, A: Combined helium and combustion gas turbine plant exploiting liquid hydrogen (LH_2) physical exergy, 10A1392
MASSELINK, G: Magnitude and cross-shore distribution of bed return flow measured on natural beaches, 2T176
MASSICOTTE, B: Strengthening of reinforced concrete beams with composite materials: Theoretical study, 4A804
- Relative efficiency of external prestressing, 6A758
MASSIER, D: In situ creep of a linear viscoelastic rock around some noncircular tunnels - Part II: Boundary stress and displacement concentrations, 11A576
MASSIN, P: Experimental study of periacetabular deformations before and after implantation of hip prostheses, 6A1313
MASSON, B: Hartmann wave front sensor studies of dynamic organized structure in flowfields, 4A113†
MASSONI, E: Finite element simulation of the inertia welding of two similar parts, 1A954
- Inverse problems in FE simulation of metal forming processes, 11A587
MASSOUD, AT: Impedance control approach for flexible joints robot manipulators, 3A410
- Design, dynamics and identification of a flexible joint robot manipulator, 10A480
MASSOUDI, M: Effects of variable viscosity and viscous dissipation on the flow of a third grade fluid in a pipe, 5A911
- Gravity granular flows of slightly frictional particles down an inclined bumpy chute, 12A1002
MAST, TD: Wave space resolution in ultrasonic scattering measurements, 5A291
MASTANZADE, NS: Dynamic behavior of offshore gravity platform, 2A788
MASTER, BI: Helical baffles in shell-and-tube heat exchangers - Part I: Experimental verification, 10A1308
MASTERS, BP: Global structure modeling using force-state component identification, 6T280
MASTERS, JE: Textile composites, 10A576
MASTILOVIC, S: Fundamental issues of damage mechanics, 2A612
- Comments on plasticity postulates and non-associative flow rules, 6A392
MASTORAKOS, E: Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, 8A965
MASUD, A: Dynamic analysis and drilling dof, 2A480
MASUD, J: Oscillatory convection due to combined buoyancy and thermocapillarity, 6A1086
MASUDA, A: Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), 3A969
- Method of simultaneous analysis of waves propagating in multilayered media by BEM, 12A222
MASUDA, H: Particle reentrainment from a fine powder layer in a turbulent air flow, 8A1302
MASUDA, K: Atmospheric water balance and global hydrologic cycle (Japanese), 3A1342
- Study on vibration cutting characteristics using OD-blade (Japanese), 9A712
MASUDA, M: Machinability of sintered carbons based on the correlation between tool wear rate and physical and mechanical properties, 12A943
MASUDA, T: Effects of molecular weight distribution on dynamic viscoelasticity and biaxial extensional flow behavior of polystyrene melts, 4A886
- Formulation of elevator door equation of motion, 12A968
MASUDA, W: Correct limit approximations for planar, cylindrical, and spherical blast waves, 4T280
MASUDA, Y: Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, 12A1239
MASUOKA, T: Turbulence model for flow through porous media, 11A1334
MATA, C: Flow characteristics of concentrated emulsions of very viscous oil in water, 11A857
MATAGA, PA: Evaluation of bimaterial stress intensity factors using a FE and BE alternating method, 6A639
MATALON, M: Near-limit oscillations of spherical diffusion flames, 12A1305
MATCHENKO, NM: Constitutive equations for isotropic multimodulus media: Quasilinear relations, 3A3
MATCHETT, AJ: Experimental investigation of effects of vibration upon elastic and cohesive properties of beds of wet sand, 1A696
MATEER, GG: Skin-friction measurements and calculations on a lifting airfoil, 7A1159
MATEESCU, D: Optimal atmospheric trajectory for aerogravity assist with heat constraint, 1T397
- Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, 1T991
- Three dimensional viscous flows between concentric cylinders executing axially variable oscillations: A hybrid spectral-finite difference solution, 5A940
- Analysis of 2D and 3D unsteady annular flows with oscillating boundaries, based on a time-dependent coordinate transformation, 8T889
MATEMILOLA, SA: Diffusion rate for stress in orthotropic materials, 5A397
MATHEU, EE: Seismic response of structural frameworks with flexible connections, 3A1317
- Eigenvalue analysis of structures with flexible random connections, 11A8
MATHEW, J: Monitoring varying speed machinery vibrations - I: The use of non-stationary recursive filters, 5A161
- Monitoring varying speed machinery vibrations - II: Recursive filters and angle domain, 5A162
- Comparison of autoregressive modeling techniques for fault diagnosis of rolling element bearings, 6A703
- Using the correlation dimension for vibration fault diagnosis of rolling element bearings - II: Selection of experimental parameters, 12A964
- Using the correlation dimension for vibration fault diagnosis of rolling element bearings - I: Basic concepts, 12A963
MATHEW, P: Prediction of chip flow direction and cutting forces in oblique machining with nose radius tools, 2A546
- Optimal tool replacement strategy for computer numerical controlled turning centers, 4A640
- Nose radius oblique tool: Cutting force and built-up edge prediction, 8A554
MATHEWS, J: Gravitational effects on closed-cellular-foam microstructure, 10A329
MATHIA, TG: Influence of surface oxidation on the wear resistance of cast iron, 6T820
MATHIAS, DL: Wake integration to predict wing span loading from a numerical simulation, 2T1025
MATHIAS, MH: Complex oscillatory behavior in a cracked beam under sinusoidal excitation, 2T671
MATHIESON, D: Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
MATHIEU, P: Part-load operation of combined cycle plants with and without supplementary firing, 5A1038
MATHIOULAKIS, DS: Formation and internal structure of coherent vortices in the wake of a pitching airfoil, 8A1020
MATHUR, JS: Computation of 3D transonic flow using a cell vertex finite volume method for the Euler equations, 9A1107
MATHUR, KK: Hybrid FE formulation for polycrystal plasticity with consideration of macrostructural and microstructural linking, 1A520
- Three-dimensional analysis of dynamic ductile crack growth in a thin plate, 8A675
MATHUR, T: Base-bleed experiments with a cylindrical afterbody in supersonic flow, 7A1078
- Velocity and turbulence measurements in a supersonic base flow with mass bleed, 11A917
MATIAS, J: Thermomechanics and the formulation of the Stefan problem for fully faceted interfaces, 4A1234
MATIAS, L: Seismic behavior estimation of thin alluvium layers using microtremor recordings, 9A1398
MATIC, P: Modeling study of the effect of stress state on void linking during ductile fracture, 11A670
MATIDA, EA: Droplet deposition and heat transfer simulations of turbulent air-water dispersed flow in a vertical tube, 4T1008
MATIKAS, TE: Free edge effect on residual stresses and debond of a composite fiber-matrix interface, 1A540
- Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, 1A856
- Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, 4A776
- Nondestructive approach to correlate the interfacial defects induced during processing of MMCs and CMCs with the consolidation parameters, 12A795
MATIOTTI, R: Theoretical investigation of the undrained stability of shallow submerged slopes, 2A522
MATIYASEVICH, VM: Reduction of the model of mechanical system with variable reduced parameters, 9A403
MATKOWSKY, BJ: Forced forward smolder combustion, 7A1307
MATOVIC, MD: Distributive mass balance correction in single- and multigrid incompressible flow calculation, 11T903
MATROSOV, AV: Method of initial functions in the analysis of laminated plates (Russian), 7A633
MATROSOV, VM: Right-hand solutions of the differential equations of dynamics for mechanical systems with sliding friction, 12A875
MATSKO, MG: Zig-Zag piezoelectric actuators: Geometrical control of displacement and resonance, 7A425
MATSNER, VI: Procritical state and stability of cylindrical shells beyond the elasticity limit, 7A668
MATSUBA, A: Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, 7A788
MATSUBARA, A: Study on the extension of the grinding conditions database: Learning and prediction by the linear model (Japanese), 7A755
- Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
MATSUBARA, M: Development of incremental sheet metal forming system using elastic tools: Principle of forming process and formation of some fundamentally curved shapes, 9A700
MATSUDA, H: In-plane and out-of-plane free vibrations of curved beams with variable sections, 4A158
- Free vibration analysis of anisotropic rectangular plates with various boundary conditions, 4A167
- Free vibration analysis of sandwich beam with elastic or viscoelastic core by applying the discrete Green function, 9A187
MATSUDA, K: Self-sensing active vibration control using the moving-coil-type actuator, 5A700
- Control of a flexible beam using back electromotive force of motor, 6A325
- Analysis of the dereverberated transfer function in finite dimensions, 6A267
- Optimization of generalized potential in mission function control: Analytical and experimental results, 6T291
- Hardness of electro plated coatings, 7T998
- Wave approach for control of orientation and vibration of a flexible structure, 11A338
MATSUDA, M: Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
MATSUDA, R: Physical meanings of A/Q_{m0} and α/Q_{m0} in molecular gas film lubrication problems, 10T1109
MATSUHISA, H: Vibration control of a ropeway carrier by passive dynamic vibration absorbers, 6A173
MATSUI, H: Temperature dependence of fluxural static strength of pitch-PAN hybrid unidirectional CFRP, 7A557
MATSUI, K: Sensitivity analysis on model parameter errors and measurement noises in frequency domain identification problems (Japanese), 5A115
- Effect of errors in deflection readings and pavement model on backcalculated layer moduli (Japanese), 6A765
- Attachment of the flame sheet to the carbon surface in a carbon combustion model: On the surface constraining conditions, 9A1330
- Confidence region of identified parameters depending upon known parameters errors (Japanese), 11A156
MATSUI, S: Characterization of grinding wheel surface (Japanese), 5T576
- Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), 11A642
MATSUI, Y: Experimental investigation on tunnel sonic boom, 3T208
MATSUKAWA, H: Friction of clean surfaces, 12T890
MATSUKAWA, M: Ultrasonic characterization of a polymerizing epoxy resin with imbalanced stoichiometry, 9A369
MATSUMORI, N: Cutting mechanism of superfinishing by fine CBN stone (Japanese), 12A694
MATSUMOTO, A: Development of a wireless communication system for a distributed autonomous robotic system (Japanese), 2A312
- Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
MATSUMOTO, F: Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743
MATSUMOTO, H: Polychromatic light interferometer for high-accuracy positioning, 5A386
- Nonlinear seismic response analysis method for saturated soil-structure system with absorbing boundary, 11A1402
- Instantaneous color-coding of 3D shape (Japanese), 12T802
MATSUMOTO, K: Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, 1A1373
MATSUMOTO, M: Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, 4A1188
- Flutter stability of decks for super long-span bridge (Japanese), 11A225
MATSUMOTO, N: Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, 6A448
MATSUMOTO, S: Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), 4T824
- Fundamental study on bond behavior of various FRP rods in pretensioned PC members, 6A749
- Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), 12A554
MATSUMOTO, T: Residual strain and local strain distributions in the rabbit atherosclerotic aorta, 1A1451
- Study of MHD equilibrium and stability for heliotron-torsatron with helical axis, 4A1098
- Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, 8A62
- Stress and strain distribution in hypertensive and normotensive rat aorta considering residual strain, 9A1444
- Application of BEM to 3D problems of coupled thermoelasticity, 9A1290
MATSUMOTO, Y: Cavitation and Multiphase Flow - 1995 ASME/JSME Fluids Eng Conf, 1N26
- Accurate probe-response calculation in eddy current NDE by FEM, 9A43
- Propagation of shock waves in dilute bubbly liquids: Governing equations, Hugoniot relations, and effect of slippage between two phases, 11T208
MATSUMURA, A: Light attenuation in a semitransparent foam sheet: Thickness measurement for industrial use, 7A879
- Real-time optical monitoring system for dye color and concentration, 10A858
MATSUMURA, N: Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, 7T1341
MATSUNAGA, A: Three-dimensional particle-tracking velocimetry measurement of turbulence statistics and energy budget in a backward-facing step flow, 6A1002

MATSUNAGA, H: In-plane vibration and stability of shallow circular arches subjected to axial forces, 4A279
- Buckling instabilities of thick elastic beams subjected to axial stresses, 9A617
- Free vibration and stability of thin elastic beams subjected to axial forces, 10A636
MATSUNAGA, M: Cross effect in aluminium tubes subjected to torsion and tension, 7A525
- Present status of post CMP cleaning and future prospects (Japanese), 11T621
MATSUNAGA, N: Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), 3A969
MATSUNAGA, T: Mass transfer into a liquid film flowing concurrently with gas flow: Correlation of average mass-transfer coefficient, 2A1166
MATSUNAGA, Y: Transient thermoelastic problem for an infinite plate containing a penny-shaped crack at an arbitrary position, 12A1278
MATSUNAMI, A: Review of measurements of heat flux density applicable to the field of combustion, 10A1382
MATSUNO, M: Growth behavior of sawtoothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), 9A507
MATSUNO, S: Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), 5A127
MATSUO, A: Computational study of large-disturbance oscillations in unsteady supersonic combustion around projectiles, 3A1219
MATSUO, H: Closed loop momentum transfer maneuvers using multiwheels, 1T388
- Low-thrust flyby guidance and an extended optimal spacing rule, 8T315
MATSUO, M: Feature of differential settlement as fractal and its application for settlement estimation (Japanese), 7A695
- In-situ test of ground improvement sand piles method by measuring the process of dewatering (Japanese), 10T672
MATSUO, S: Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, 7T1080
MATSUO, T: Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550
- Presentation of an equation for estimating reaeration coefficients based on a turbulence intensity model (Japanese), 3A1387
- Experimental study of impregnation conditions on glass fiber reinforced thermoplastic polyester elastomer composites, 7A559
- Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
MATSUOKA, H: Numerical bearing capacity test by DEM on granular assemblies with sandbag-like reinforcement (Japanese), 7T703
MATSUOKA, K: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
- Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), 11A570
MATSUOKA, S: Fracture mechanics-based design method for SFRC tunnel linings, 9A790
- Thermodynamic theory of viscoelasticity, 11T1089
MATSUSAKA, S: Particle reentrainment from a fine powder layer in a turbulent air flow, 8A1302
MATSUSHIMA, E: Thermal diffusivity and porosity of solid materials by electromagnetic ultrasonic technique - Part 2, 2A1227
MATSUSHIMA, H: Numerical simulation of heat transfer and fluid flow with thermal radiation between surfaces of arbitary shape, 4A1215
- Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, 7A1277
MATSUSHIMA, M: Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, 7A831
- Study on crack models caused by pressure due to corrosion products (Japanese), 9A746
MATSUSHIMA, T: Spectral method for polar coordinates, 1A61
MATSUUCHI, K: Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970
MATSUURA, K: Amorphous state formation and structural changes in α alumina by repeated rubbing, 4A837
- Distinct element method with the effect of moment transfer at the contact points (Japanese), 7A713
MATSUURA, S: Ultimate behavior of tie plates at high-speed tension, 10A917
MATSUYAMA, H: Atmospheric water balance and global hydrologic cycle (Japanese), 3A1342
MATSUZAKI, A: High-temperature properties of stainless steel for building structures, 10A935
MATSUZAKI, Y: Vibration of a cantilevered beam during deployment and retrieval: Analysis and experiment, 7A145
MATTA, LM: Mixing by resonant acoustic driving in a closed chamber, 8A1266
MATTEI, M: Design and robustness analysis of gain-scheduled control system for parabolic flight, 8A1012
MATTEI, P-O: Sound radiation by a baffled shell: Comparison of the exact and an approximate solution, 5A257
MATTER, D: Efficient multiple charging of diesel particles by photoemission, 7A1354
MATTEY, NL: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512
MATTHEWS, A: Comparative tribology studies of hard ceramic and composite metal-DLC coatings in sliding friction conditions, 2T804
MATTHEWS, FL: Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, 9A818
MATTHEWS, JR: Relationship between shear lip, shear index, and energy in dynamic tear specimens, 10A817
MATTHEWS, PC: Compressible magnetoconvection in 3D: Planforms and nonlinear behavior, 6A1003
MATTHEWS, R: Thermal-vacuum response of polymer matrix composites in space, 1A573
MATTHYS, EF: Characterization of micellar structure dynamics for a drag-reducing surfactant solution under shear: Normal stress studies and flow geometry effects, 4A903
- Experimental investigation of interfacial thermal conductance for molten metal solidification on a substrate, 8A1167
MATTHYS, L: Recursive construction of particular solutions to a system of coupled linear partial differential equations with polynomial source term, 12A83
MATTIASSON, K: Solution of quasi-static, force-driven problems by means of a dynamic-explicit approach and an adaptive loading procedure, 11A589
MATTYS, S: Moment arm length variations of selected muscles acting on talocrural and subtalar joints during movement: An *in vitro* study, 6A1315
MATULEWICZ, T: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
MATUOKA, S: Mechaeism and estimation of leakage through concrete crack (Japanese), 4A1302
- Study on the limit state design method for tunnel linings (Japanese), 4A823
MATUURA, K: Application of electric potential method to smart composite structures for detecting delamination, 3A736
MATVEENKO, VP: Procedure for numerical analysis of stress singularities at the corner points of 3D bodies, 10A518
- Semi-analytical singular elements in plane and spatial problems of elasticity, 10T6
MATVEEV, A: Observation of nonlinear scattering of acoustical waves at sea sediments, 7A341
MATVEEVSKII, RM: Problems of boundary lubrication, 1T1144
MATVEYENKO, VP: Semianalytical singular element and its application to stress calculation and optimization, 10A35
MATVIYCHUK, KS: Technical stability of the system of automatic control with variable structure (Russian), 3A313
MATYASOVSZKY, I: Impact of global climate change on temperature and precipitation in Greece, 1T1406
MATYAZH, AI: Aero- and gas-dynamics of flight vehicles and their engines: Configuration of surface effect vehicle studied in wind tunnel, 8A1021
MATYSIAK, SA: Stressed state of a laminated elastic composite with a thin linear inclusion, 7A841
MATYSIAK, SJ: Wave propagation in periodically laminated composites, 1A203
- Three-dimensional problems of multilayered periodic elastic composites, 3A504
- Plane contact problem for periodic laminated composite involving frictional heating, 5A474
MAU, LG: Robust stabilization of large-scale time-delay systems with estimated state feedback, 12A321
MAU, RE: Explicit mathematical models of distribution storage water quality, 2A1277
- Modeling distribution storage water quality: An analytical approach, 9A1300
MAU, ST: Performance of new sandwich tube under axial loading: Experiment, 6A501
- Performance of new sandwich tube under axial loading: Analysis, 6A502
MAU, U: Long term effect of noise protection barriers on the annoyance response of residents, 1A338
MAUBACH, J: A posteriori error estimators for a two-level FEM for the Navier-Stokes equations, 9A1091
MAUDLIN, PJ: Computational anisotropic plasticity for high-rate forming applications, 12A699
MAUGHMER, MD: Natural-laminar-flow airfoil for general-aviation applications, 1A1103
MAUGIN, GA: Dissipation of configurational forces in defective elastic solids, 1A459
- Thermoelastic material-momentum equation, 2A1152
- One-dimensional bulk waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A590
- Surface waves in a nonlinear magnetoelastic conductor of finite electric conductivity, 4A591
- Deformation waves in thermoelastic media and the concept of internal variables, 8A1228
- Geometrical material structure of anelasticity, 9A4
- KdV soliton formation and discrete spectral analysis, 10A289
- Elastic wave resonance reflection from a thin solid layer in a crystal, 12A226
- Fracture of paramagnets and soft ferromagnets, 12A636
MAUGIS, D: Contact and adhesion of rough surfaces, 9A478
MAURER, H: Second-order sufficient conditions for control problems with control-state constraints, 2T257
- Hypocentral parameters and velocity estimation in the western Swiss Alps by simultaneous inversion of P- and S-wave data, 11A1335
MAURICE, LQ: Detailed kinetic modeling of n-heptane combustion, 5A1231
MAURICE, MS: Particle size distribution technique using conventional laser doppler velocimetry measurements, 11A940
MAURIZI, MJ: Dynamic behavior of slender beams with elastic ends carrying a concentrated mass, 5A117
MAUS, R: Determination of the fractional efficiencies of fibrous filter media by optical in situ measurements, 9A1132
MAUSKAR, S: Loop configuration approach to automatic sketching of mechanisms, 9A1013
MAUSS, J: Asymptotic modeling for separating boundary layers in a channel, 5A938
MAUTE, K: Adaptive topology optimization, 3A750
MAUTONE BARROS, JE: Nonequilibrium reactive flows through convergent-divergent nozzle by the method of characteristics (Spanish), 3A949
MAVEETY, JG: Transient exergy analysis and optimal removal time of a cylindrical storage system, 8A1218
MAVKO, B: Risk-based steam generator lifetime optimization, 1A773
MAVKO, G: Seismic pore space compressibility and Gassmann's relation, 3A591
- Fluid substitution: Estimating changes in Vp without knowing Vs, 3A1264
MAVRAGANIS, AG: Equilibrium configurations of the restricted problem of 2 + 2 triaxial rigid bodies, 10A324
MAVRAKOS, SA: Deep water mooring dynamics, 3A130
MAVROMATOU, C: Electric signals recorded during uniaxial compression of rock samples: Their possible correlation with preseismic electric signals, 3A1299
MAVROPOULOS, GC: Study of the steady and transient temperature field and heat flow in the combustion chamber components of a medium speed diesel engine using FE analyses, 11A1188
MAWID, M: Analysis of unsteady wave processes in a rotating channel, 2A182
MAXEY, MR: Unsteady flow about a sphere at low to moderate Reynolds number - Part 2: Accelerated motion, 4A963
- Interactions of particles and microbubbles with turbulence, 10A1122
MAXIAN, TA: Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, 8A1450
MAXIMOV, IN: Simulation of locomotive dynamics considering tribological characteristics of a rail-wheel pair, 5A778
MAY, AW: Micromechanical analysis to predict the cord-rubber composite properties, 12A575
MAY, RG: Sapphire optical fiber-based interferometer for high temperature environmental applications, 1A1298
MAY, S: Wigner potential method in the investigation of thermal properties of regular composites, 10A1342
MAYBURY, DM: Surface integral and FE hybrid method for 3D analysis of arbitrarily shaped surface cracks, 10A760
MAYEDA, KM: Phase and spectral ratio discrimination between NTS earthquakes and explosions - Part I: Empirical observations, 2A1233
MAYER, HR: Influence of transformation-induced crack closure on slow fatique crack growth under variable amplitude loading, 2A568
MAYER, RJ: Plane generation strategies for a knowledge-based automated process planning system, 4A416
MAYER, RR: Application of topological optimization techniques to structural crashworthiness, 10A940
MAYER, WG: Acouso-optic imaging of focused ultrasound pressure fields, 1A355
MAYERS, DF: Dynamic simulation of the conforming shell gas journal bearing, 4A854
MAYEUR, C: Numerical elastoplastic model for rough contact, 5A585
MAYHEW, ER: Effect of tip clearance on a swept transonic compressor rotor, 11A1059
MAYHEW, YR: Nomenclature for exergy analysis, 4A1134
MAYINGER, F: Flow Visualizaiton and Image Processing of Multiphase Flows - 1995 ASME/JSME Fluids Eng Conf, 1N29
MAYLE, RE: Account of free-stream-turbulence length scale on laminar heat transfer, 5A966
MAYMON, G: Problematic nature of the application of stochastic crack growth models in engineering design, 9A778
MAYNARD, AD: Development of a new thermophoretic precipitator for scanning transmission electron microscope analysis of ultrafine aerosol particles, 4A1283
MAYNE, PW: Laborstory modeling of laterally-loaded drilled shafts in clay, 6A541
MAYNES, RD: Rotating nose tip effects on slender body aerodynamics at high angles of attack, 5A1005
MAYO, A: Integral equation methods for Stokes flow and isotropic elasticity in the plane, 11A885
MAYO, J: Geometrically nonlinear formulations of beams in flexible multibody dynamics, 5A77
- Geometrically nonlinear formulation of flexible multibody systems in terms of beam elements: Geometric stiffness, 10A80
- Randomness of fatigue crack growth under constant-amplitude loads, 11A656
MAYO, MW: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
MAYORGA, M: Model of blast overpressure injury to the lung, 6A1339
MAYRHOFER, K: Elliptical subsurface cracks under a normal stress and a residual stress field, 8A622
MAYRHOFER, P: EBRA: A method to measure migration of acetabular components, 1A1459
MAYS, GC: Structural effectiveness of large volume patch repairs to concrete structures, 7A942
MAYURAM, MM: Surface integrity studies on shot-penned thermal-treated En 24 steel spur gears, 12A937
MAYVILLE, RA: Numerical analysis of a railroad bolt hole fracture problem, 4A748
MAZ'YA, V: Approximate approximations using Gaussian kernels, 6A43
MAZANEK, DD: Simulation and Shuttle Hitchhiker validation of Passive Satellite Aerostabilization, 5A244
- Parametric and classical resonance in passive satellite aerostabilization, 10A950
MAZEIKA, L: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701
MAZHEIKO, NA: Collapse of a boiling water jet, 1A1230
MAZHETSOVA, AV: Applied model of deformation of nonlinear viscoelastic vibroinsulators under cyclic deformation (Russian), 3A448
MAZHUL', II: Computation of supersonic flow over spatial configurations with sharp leading edges, 12T1175
- Estimation on integral aerogasdynamics of hyersonic scramjet-powered aircraft, 12T1332
MAZING, RI: Brittle fracture of a compressed cylinder, 9A835
MAZOUZI, A: Ovalling oscillations of cantilevered cylindrical shells in cross-flow: New experimental data, 3A217
MAZROI, A: Design of eight-bolt end-plate connection considering both the beam and column sides of the connection, 2A722
MAZUCH, T: Order reduction of stiffness and mass matrices - 2: Lanczos method, 6A156
- Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, 12A263
MAZUEL, L: Standing waves at an outfall, 12T1019
MAZUMDAR, HP: Consistency coefficient of a power-law flow of blood through the narrow vessel, 9A1448
- Micropolar fluid model for blood flow through an artery with mild stenosis, 9A1451
MAZUMDAR, SK: Analytical models for low cost manufacturing of composite components by filament winding - Part II: Inverse kinematics, 2A553
- Determination of manufacturing conditions for hot-gas-aided thermoplastic tape winding, 8A558
MAZUMDER, BS: Distribution of turbulent velocity fluctuations in a natural river, 4A926
- Return flow in rivers due to navigation traffic, 6T888
MAZUR, AI: Jet cooling of ribbed walls of molds for producing corrugated pipes and hoses, 1A1167
MAZUREK, P: Influence of induced velocity modeling on helicopter stability, 1A177
MAZURKIEWICZ, ZE: Cienkie Powloki Sprezyste: Teoria Liniowa - Thin elastic shells: Linear theory (Polish), 9N12
MAZURSKII, MI: Materials with a falling diagram, 5T432
MAZURUK, K: Flow transitions in a rotating magnetic field, 10A1186
MAZUYER, D: Role of soot aggregation on the lubrication of diesel engines, 2A809
MAZZA, L: Kinematic analysis of a gearless articulated speed reducer, 2T65
MAZZA, RA: Hydrodynamics modeling of a physiological flow simulator (Spanish), 4A1368
MAZZI, L: Generation of stable limit cycles in controllable linear systems, 12T112

MAZZILLI, CEN: Effect of static loading on the nonlinear vibrations of a three-time redundant portal frame: Analytical and numerical studies, 4A188
MAZZOLENI, AP: Double averaging approach to the study of spinup dynamics of flexible satellites, 6A93
MBAKOGU, FC: Analysis of thin shells by the two-surface truss model - I: A general formulation, 9A585
- Analysis of thin shells by the two-surface truss model - II: Numerical performance, 9A586
- Bending and stretching actions in shallow domes - Part 1: Analytical derivations, 11A512
- Bending and stretching actions in shallow domes - Part 2: A comparative study of various boundary conditions, 12A600
MBOW, C: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098
MC CLAMROCH, NH: Switched mode feedback control laws for nonholonomic systems in extended power form, 7T388
MC GINNIS, LF: Towards a manufacturing metamodel, 7A487
MCADIE, RL: Finite element enthalpy technique for solving coupled nonlinear heat conduction and mass diffusion problems with phase change, 6A1124
MCALISTER, RE: Economic performance of the SCE Stirling dish, 3A1364
MCAREE, PR: Fast, robust solution to the Stewart platform forward kinematics, 11A381
MCARTHUR, J: Qualitative features of high lift hovering dynamics and inertial manifolds, 8A1026
MCARTHUR, KM: Alternating direction collocation for irregular regions, 7A59
MCAULEY, KB: Iterative dynamic programming for minimum energy control problems with time delay, 1A386
MCAULIFFE, PJ: Double torsion testing of prescription lenses, 4A765
MCBANE, DG: Effects of a closely coupled static and oscillating canard, 5T1002
MCBRIDE, JW: Measurement and analysis of the 3D form of curved surfaces, 8A704
MCCABE, JF: Thermal expansion of composites, 4A1235
MCCAFFREY, N: Predicting warpage of injection molded fiber-reinforced plastics, 8A455
MCCALLION, H: Wide bandsaw blade under cutting conditions - Part I: Vibration of a plate moving in its plane while subjected to tangential edge loading, 2A135
- Wide bandsaw blade under cutting conditions - Part II: Stability of a plate moving in its plane while subjected to parametric excitation, 2A136
- Wide bandsaw blade under cutting conditions - Part III: Stability of a plate moving in its plane while subjected to non-conservative cutting forces, 2A137
- Transverse vibration of a moving string: A comparison between the closed-form solution and the normal-mode solution, 10A168
- Transverse vibration of a moving string: A physical overview, 10A167
MCCALPIN, JP: Frequency distribution of geologically determined slip rates for normal faults in the western United States, 6A1227
MCCAMMOND, D: Validation of a nonlinear 2D interface element for FE analysis, 10A13
MCCANN, GJ: Experimental investigation of supersonic gaseous injection into a supersonic freestream, 7A1112
MCCANN, RC: Experimental study of buckling and post-buckling of laterally constrained rods, 1A642
MCCARRAGHER, BJ: Discrete event control of robotic assembly tasks, 5A378
- Discrete event modeling and trajectory planning of robotic assembly tasks, 5A379
- Stability of a class of discrete event systems using Markov chains, 12T323
MCCARRON, WO: Constitutive Equations for Engineering Materials Volume 2: Plasticity and Modeling, 1R15
MCCARTER, WJ: Water content assessment of fresh concrete, 7A552
MCCARTHY, DJ: Recovery of impact signatures in machine structures, 2A142
MCCARTHY, JF: Comparison of fast algorithms for estimating large-scale permeabilities of heterogeneous media, 2A1211
- Statistical mechanical model of solidification, 3A1121
MCCARTHY, TR: Performance based optimization of high speed prop-rotors, 1A1135
- Decomposition-based optimization procedure for high-speed prop-rotors using composite tailoring, 2A1047
- Multiple design point optimization of high-speed proprotors, 11T1027
MCCLEARY, SL: Coupled analysis method for structures with independently modeled FE subdomains, 4A563
MCCLINTOCK, FA: Criterion for plane strain, fully plastic, quasi-steady crack growth, 6A646
- Dislocation mechanics-based crystallographic model of a B2-type intermetallic alloy, 8A438
MCCLURE, DC: Effect of modeling assumptions and input motion characteristics on seismic design parameters of RC bridge piers, 10A1436
MCCLURE, G: Compression creep of pultruded E-glass-reinforced-plastic angles, 3A513
- Determination of lubricating film thickness for permeable hydrogel and non-permeable polyurethane layers bonded to a rigid substrate with particular reference to cushion form hip joint replacements, 12A1488
MCCLURE, WB: Simulating heat addition via mass addition in variable area compressible flows, 10T1153
MCCOLLUM, MD: Modal analysis of a structure in a compressible fluid using a FE-BE approach, 9A329
MCCOMAS, DJ: Low-energy neutral-atom imaging techniques for remote observations of the magnetosphere, 5A253
MCCOMBER, P: Ice shedding from cables, 3A1394
- Computer model of glaze accretion on wires, 11A1436
MCCONNAUGHEY, P: Computational pollutant environment assessment from propulsion-system testing, 12A1331
MCCONNELL , KG: Mismatching windows can cause frequency response function notches to appear as peaks, 12A194
MCCONNELL, K: Verification of the duplex gauge using variable strains and temperatures, 12A806
MCCONNELL, KG: Vibration Testing: Theory and Practice, 2R11
- Dynamic response of a damped cable with a compliant damped support system, 10A161
MCCOOL, JI: Accuracy of rolling bearing fatigue life prediction, 10A1006
MCCOOL, K: Prediction of tail rotor thrust and yaw control effectiveness, 6A1040
MCCORQUODALE, JA: Experimental studies of heavy radial density currents, 6A904
MCCOWAN, WL: Feedback linearization autopilot design for the advanced kinetic energy missile boost phase, 3A369
MCCOY, JJ: Effective measures for nonstationary microscale stiffness variation using multiresolution decomposition, 5A286
- Class of 1D stiffness microstructures resulting in identical macroscale response, 11A163
MCCREESH, Z: Vaginal temperature sensing using UHF radio telemetry, 7A1414
MCCROSKEY, WJ: Evaluation of turbulence models for unsteady flows of an oscillating airfoil, 2A1035
MCCUBBREY, DA: Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties, 10A1466
MCCUEN, RH: Numerical Methods for Engineers, 5N5
MCCULLAGH, PJJ: Biomechanics and design of shoulder arthroplasty, 6A1307
MCCULLOCH, AD: Finite element stress analysis of left ventricular mechanics in the beating dog heart, 1A1450
- Distributed mechanics of the canine right ventricle: Effects of varying preload, 6T1337
MCCULLOUGH, RL: Relationship between interphase composition, material properties, and residual thermal stresses in composite materials, 3A1184
- Model to predict the through-thickness distribution of heat generation in cross-ply carbon-fiber composites subjected to alternating magnetic fields, 5A1168
MCCULLOUGH, RW: Laser-optical triangulation systems provide new capabilities for remote inspection of interior surfaces, 4T771
MCDANIEL JR, JC: Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, 2A1189
- Complete 3D multiparameter mapping of a supersonic ramp fuel injector flowfield, 8A959
- Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, 8T1064
MCDANIEL, JC: Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063
MCDANIEL, JG: Fundamental tests of two modal strain energy methods, 10T134
MCDERMID, JA: Structural engineering and software: Certainty, uncertainty and probability, 6A740
MCDONALD, CF: Compact buffer zone plate-fin IHX - The key component for high-temperature nuclear process heat realization with advanced MHR, 3A1147
- Utilization of recuperated and regenerated engine cycles for high-efficiency gas turbines in the 21st Century, 12A1178
MCDONALD, H: Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, 4A950
MCDOUGALL, JR: Numerical investigation of landfill hydraulics using variably saturated flow theory, 12A1031
MCDOWELL, DL: Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, 5T9
- Path dependence of shape memory alloys during cyclic loading, 7T523
- Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steels - Part I: Estimation of crack tip parameters, 10A751
- Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steel - Part II: Crack growth behavior and models, 10A752
MCELHANEY, JH: Axial strain measurements in skeletal muscle at various strain rates, 5A1362
- Dynamic responses of the head and cervical spine to axial impact loading, 6A1310
MCELIGOT, DM: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 5, 3N36
- Turbulent Prandtl number in the near-wall region for low-Prandtl-number gas mixtures, 7A1131
MCELWAIN, DLS: Asymptotic analysis and effect of reaction order on a reversible gas-solid system fast reaction, 12A1080
MCEVILLY, TV: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 2: Application to seismograms recorded by the Parkfield High Resolution Seismic Network, 12A1370
MCEVILY, AJ: Fatigue-crack-growth-based analysis of two-step corrosion fatigue tests, 5A609
MCFADDEN, GB: Long-wave morphological instabilities in directional solidification, 5A1170
MCFADDEN, PD: Application of orthogonal wavelets to early gear damage detection, 2A702
- Decomposition of gear motion signals and its application to gearbox diagnostics, 5A820
- Application of wavelets to gearbox vibration signals for fault detection, 11A362
MCFARLAND, AR: Turbulent deposition of aerosol particles in large transport tubes, 8A1303
MCGARVA, JR: Non-uniform motion by mechanical means, 2A826
MCGEE, OG: Accurate vibration analysis of simply supported rhombic plates by considering stress singularities, 5A135
- Corner stress singularity effects on the vibration of rhombic plates with combinations of clamped and simply supported edges, 12A159
MCGHEE, RJ: Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, 5A993
MCGILL, CA: Effective properties for flow calculations, 4A1319
MCGILL, DJ: Introduction to Dynamics, Third Edition, 10N11
- Engineering Mechanics: Statics, Third Edition, 10N45
MCGILL, SM: Relationship between muscle force and stiffness in the whole mammalian muscle: A simulation study, 5A1368
- Correcting trunk-muscle geometry obtained from MRI and CT scans of supine postures for use in standing postures, 8A1415
- Revised anatomical model of the abdominal musculature for torso flexion efforts, 12T1457
MCGILLIS, WR: Role of Marangoni effects on the critical heat flux for pool boiling of binary mixtures, 8A1127
MCGLOCKTON, MA: Binary model of textile composites - II: The elastic regime, 1A536
MCGOWAN, HA: Kite based atmospheric sounding system, 12T1427
MCGRATH, BE: Computational study of a conical unit aspect ratio wing at supersonic speeds, 1T1100
MCGRATH, JE: Measurement of adhesion between carbon fibers and bismaleimide resins, 5A467
MCGRATH, SF: Control of pressure oscillations in deep cavitities excited by grazing flow, 7A318
MCGREEVY, JL: Forward motion effects on jet noise, panel vibration, and radiation, 11A245
MCGUINNESS, M: Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
- Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, 12A1310
MCGUINNESS, MJ: Steady solution selection and existence in geothermal heat pipes - I: The convective case, 4A1224
MCGUIRE, PM: Rotordynamic standards: New developments and the need for involvement, 4A212
MCGUIRE, RK: Probablistic seismic hazard analysis and design earthquakes: Closing the loop, 3A1307
MCGUIRK, JJ: Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 2: Higher order moments and flow visualization, 5A1278
- Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 1: Mean and turbulent flowfield, 5A1277
MCHUGH, AJ: Continuum dynamic behavior of homogeneous liquid-crystalline polymers under the imposition of sheared magnetic fields, 4A893
- Out-of-plane orientational dynamics of polymer liquid crystals under flow, 11A850
MCHUGH, PR: Newton-Krylov methods for low-Mach-number compressible combustion, 10A1380
MCILHAGGER, R: Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, 7A781
MCILHAGGER, YR: Effect of impact and fatigue loads on the strength of plain weave carbon-epoxy composites, 7A553
MCILROY, WE: Influence of lateral destabilization on compensatory stepping responses, 6A1326
MCINERNEY, JJ: Epicardial surface dynamics in the closed-chest normal canine, 2A1302
MCINERNY, SA: Launch vehicle acoustics - Part 2: Statistics of the time domain data, 11A799
- Launch vehicle acoustics - Part 1: Overall levels and spectral characteristics, 11A798
MCINNES, CR: Distributed control of maneuvering vehicles for on-orbit assembly, 3T366
- Nonlinear transformation methods for gravity-turn descent, 6T316
- Line-of-sight guidance for descent to a minor solar system body, 11T310
MCINTOSH, AC: Extinction of premixed flames by pressure drops, 1A1338
- Influence of pressure waves on the initial development of an explosion kernel, 2A207
MCINTOSH, FA: Effect of hematocrit of adenosine diphosphate-induced aggregation of human platelets in tube flow, 2T1293
MCINTYRE, LJ: Mechanical validation of smart structures, 11T737
MCINVILLE, RM: Aeroprediction code for angles of attack above 30 degrees, 12A1172
MCIVER, M: Non-existence of trapped modes in acoustic waveguides, 3A274
- Wave-power absorption by a line of submerged horizontal cylinders, 5A224
- Interaction of waves with horizonal cylinders in two-layer fluids, 6A215
- Global relationships between 2D water wave potentials, 10A291
- Example of non-uniqueness in the 2D linear water wave problem, 11A193
MCIVER, P: Wave-power absorption by a line of submerged horizontal cylinders, 5A224
MCKAIN, D: Transient chassis cycles for heavy duty trucks and tractors, 3T380
MCKEE, S: Numerical technique for solving unsteady non-Newtonian free surface flows, 8A902
- Mathematical model of a biosensor, 12A454
MCKEE, WD: Bragg resonances in a two-layer fluid, 11A201
MCKELVEY, T: Subspace based sytsem identification with periodic excitation signals, 5T308
MCKELVIE, J: Measurement of energy release rates for delaminations in composite materials, 10A797
MCKENNA, DL: Reliability-based casing design, 1A948
MCKENNA, GB: Anomalies in the normal force measurement when using a force rebalance transducer, 11A861
MCKIBBEN, JF: Extension of the volume-of-fluid method for analysis of free surface viscous flow in an ideal gas, 5A903
MCKIE, ADW: Laser ultrasonics for the evaluation of composites and costings, 4A770
MCKINLEY, GH: Sedimentation of a sphere through an elastic fluid - Part 1: Steady motion, 4A21
- Sedimentation of a sphere near a plane wall: Weak non-Newtonian and inertial effects, 12A1084
MCKINNEY, AE: Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, 11A1461
MCKINNEY, PJ: Oscillatory electrohydrodynamic gas flows, 5A983
MCKINNON, JT: Elementary reaction modeling of high-temperature benzene combustion, 5A1252
- Infrared analysis of flame-generated PAH samples, 9A1336
MCLAUGHLIN, DK: Numerical simulations of flows in centrifugal turbomachinery, 2A1043
MCLAY, R: Finite element analysis of anisotropic fluid suspensions, 6A20
MCLEAN, A: Thick-aluminum-coated optical fibers: Fabrication and sensor application, 11A351
MCLEAN, C: Analysis and quantification of a solid-state laser Doppler anemometer, 3A1008
MCLEAN, SP: NLT and extrapolated DLT: 3D cinematography alternatives for enlarging the volume of calibration, 1A1462
MCLEAN, W: Discretization with variable time steps of an evolution equation with a positive-type memory term, 12A509
MCLEOD, DG: Correlation of measured and computed radiation intensity exiting a packed bed, 8A1179
- Spectral-directional emittance of oxidized copper, 10A1307
MCLEON, AI: Exploratory spectral analysis of hydrological time series, 2T1255
MCLIVER, M: Wave scattering by circular arc shaped plates, 4A237
MCLIVER, P: Approximations to sloshing frequencies for rectangular tanks with internal structures, 4A287
MCMACKIN, L: Hartmann wave front sensor studies of dynamic organized structure in flowfield, 4A1131
MCMAHON, MP: Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, 7T1412
MCMAHON, TA: Dynamic models for sideways falls from standing height, 5A1369
- Hip impact velocities and body configurations for voluntary falls from standing height, 10A1469

MCMANNUS, SP: Gravitational effects on closed-cellular-foam microstructure, 10A329
MCMANUS, HL: Prediction of thermal cycling-induced matrix cracking, 8A657
- Improved theory for contact indentation of sandwich panels, 11A521
MCMANUS, JB: Interior energy focusing within an elasto-plastic material, 8A436
MCMANUS, JW: Batch simulation environment for integrated batch and piloted air combat analysis, 5A999
MCMANUS, KR: Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, 8A1057
MCMECHAN, GA: Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles, 3A1286
- Prestack processing of land data with complex topography, 3A1293
- Three-dimensional prestack full-wavefield inversion, 3A1296
- Three dimensional eighth-order elastic finite-difference modeling of refraction and strong-motion data from the Coyote Lake Region, California, 12A1389
MCMEEKING, RM: Net Shape Processing of Powder Materials, AMD-Vol 216 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N17
- Thermomechanical fatigue cracking in fiber reinforced metal-matrix composites, 1A823
- Transverse yielding and matrix flow past the fibers in metal matrix composites, 1A549
- Finite element simulation of powder consolidation in the formation of fiber reinforced composite materials, 1A19
- Time dependent crack growth in ceramic matrix composites with creeping fibers, 3A704
- Fatigue cracking in fiber-reinforced metal matrix composites under mechanical and thermal loads, 10A794
MCMILLAN, AJ: Shifting resonances from a frequency band by applying concentrated masses to a thin rectangular plate, 10A177
MCMILLAN, DW: Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", 12A1451
MCMILLEN, RL: Application of an artificial neural network as a flight test data estimator, 2A795
MCMORRIS, H: Hybrid prismatic-tetrahedral grid generation for viscous flows around complex geometries, 7A29
MCMULLAN, JT: Martin-Hou, Peng-Robinson and Redlich-Kwong-Soave equations of state for HFC 125, 6A1061
- From pure fluids to zeotropic and azeotropic mixtures: The effects of refrigerant-oil solubility on system performance, 6A1153
- Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284
- Solid-based processes for the direct reduction of iron, 8A1374
- Techno-economic analysis of fuel conversion and power generation systems: The development of a portable chemical process simulator with capital cost and economic performance analysis capabilities, 8A1396
- R407C as an alternative to R22 in refrigeration systems, 8A1212
- Development of engineering design data for new refrigerants - I: Pure fluids and azeotropic mixtures, 8A1296
MCMURRAY, MK: Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, 1A558
- Influence of stress ratio on fatigue behavior in the transverse direction of unidirectional CFRPS, 2A579
MCMURRY, PH: Distinguishing between spherical and nonspherical particles by measuring the variability in azimuthal light scattering, 2A1202
MCN ALEXANDER , R: Mechanical properties of the human heel pad: A Paradox resolved, 2A1296
MCNABB, A: Block-size determination in fractured porous media, 6A1223
- Unsteady diffusion and absorption problems, 10A1349
- Membrane diffusion and flux response, 12A1294
MCNALLY, DS: Stress distributions inside intervertebral discs: The validity of experimental "stress profilometry", 12A1451
MCNAMARA, DE: Propagation characteristics of Lg across the Tibetan Plateau, 11A1347
MCNICHOLL, DP: Comparison between cube strengths and *in situ* concrete strength development, 11A748
MCPHEE, JJ: Wittenburg's formulation of multibody dynamics equations from a graph-theoretic perspective, 6A84
- Use of linear graph theory in multibody system dynamics, 7A94
- Model reduction procedure for the dynamic analysis of rail vehicles subjected to linear creep forces, 11A146
MCPHERSON, DD: Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
MCQUAID, M: Combustion of Han-based liquid propellant sprays at 28 to 38 MPA, 3A1225
MCQUIGGAN, G: Development requirements for an advanced gas turbine system, 5A1275
MCSHARRY, PE: Wave scattering by a 2D pressure-release surface based on a perturbation of the Green's function, 1A343
MCTAGUE, D: Effect of the transverse component of the hip reaction on cement mantle stresses in a model of an implanted Exeter™ prosthesis, 11A1452
MCVAY, M: Flow of nitrogen and superheated steam through cement mortar, 3T1097
MCWILLIAMS, JC: Modeling the oceanic general circulation, 6A1290
MEAAS, P: Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), 3A803
MEAD, DJ: Wave propagation in continuous periodic structures: Research contributions from Southampton, 1964-1995, 8A169
MEAD, DW: Reptation model with segmental stretch - I: Basic equations and general properties, 2A838
- Reptation model with segmental stretch - II: Steady flow properties, 2A839
- Component predictions and the relaxation spectrum of the double reptation mixing rule for polydisperse linear flexible polymers, 12A1009
MEADE JR, AJ: Recurrent artificial neural network simulation of a chaotic system without training, 4T390
MEADOR, WE: Vibrational relaxation and sound absorption and dispersion in binary mixtures of gases, 7A327
MEADOWS, KR: Using high-order accurate essentially nonoscillatory schemes for aeroacoustic applications, 7A365
MEAR, ME: Boundary element method for 2D linear elastic fracture analysis, 8A679
- Effect of void shape on the macroscopic response of nonlinear porous solids, 8A420
MEARS, M: Reconfigurable tracking control with saturation, 3T357
MEASURES, RM: Rare earth doped fiber for structural damage assessment, 2A710
MEBARKIA, S: Mechanical properties and water diffusion in polyester polymer concrete, 6A417
MEBIUS, JE: Mathematical simulation of near-vertical flight of fixed-wing aircraft, 11T1036
MECHEL, FP: Wide-angle diffuser: A wide-angle absorber?, 2A232
MECHIE, J: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391
MECHOLSKY, JJ: Fracture: Instability Dynamics, Scaling, and Ductile-Brittle Behavior - Symp Proc Series, Vol 409, 8N15
MEDDAHI, S: Coupling of boundary integral and mixed FEMs, 12A52
MEDIGE, J: Effect of ultrasonically determined anisotropy on longitudinal fracture of cortical bone, 12A1444
MEDINA, DF: Analysis of the Solwind fragmentation event using theory and computations, 7A986
MEDINA, SF: Modeling austenite flow curves in low alloy and microalloyed steels, 5A442
MEDJO, TT: Vorticity-velocity formulation for the stationary Navier-Stokes equations: The 3D case, 2A866
MEDVEDEV, A: Fault detection and isolation by functional continuous deadbeat observers, 12A432
MEDVEDEV, KV: Propagation of electroacoustic waves in laminar cylinder with conducting layers, 7A237
MEDVEDEV, MV: Determination of stress intensity factors in the case of a combined loading by the method of holographic interferometry, 5A623
MEDVEDEV, VS: Synthesizing control systems for multi-dof manipulators, 9A464
MEDVEDEV, YV: Theory and synthesis of advanced thermal-protective composite materials, 12A1288
MEE, DJ: Experiments on supersonic combustion ramjet propulsion in a shock tunnel, 1A245
- Drag measurements at Mach 5 using a stress wave force balance, 3A916
- Three-component force balance for flows of millisecond duration, 8A1043
MEEK, JL: Simplified model for buckling mechanism in lattice structures, 1A645
MEES, A: Modeling chaotic motions of a string from experimental data, 10A163
MEES, AI: Control of chaos: Higher periodic orbits, 3A95
MEES, P: Structure-born sound transmission between thin orthotropic plates: Analytical solutions, 9A343
MEES, PAJ: Instability and transitions of flow in a curved square duct: The development of two pairs of Dean vortices, 11A964
MEGARIDIS, CM: Thermocapillary flow effects on convective droplet evaporation, 4A1189
- Effects of rotating gaseous flows on transient droplet dynamics and heating, 8A1145
- Soot suppression by ferrocene in laminar ethylene-air nonpremixed flames, 11A1284
MEGHACHOU, M: Yield surfaces and principle of superposition: Revisit through incrementally nonlinear constitutive relations, 5A437
MEGUID, SA: Contact stress analysis of spur gears using variational inequalities, 2A829
- Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, 4A46
- Dynamic interaction of a crack with a circular hole under antiplane loading, 4A751
- Analysis of cracks perpendicular to bimaterial interfaces using a novel FE, 6A686
- Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, 11A32
- General treatment of an oblique crack near a bimaterial interface under antiplane loading, 11A662
MEGURO, A: In-orbit deployment performance of large satellite antennas, 10A947
MEGURO, K: Response of rigid body assemblies to dynamic excitation, 3A1323
MEHMED, O: Flutter analysis of propfans using a 3D Euler solver, 8A225
MEHRABI, AB: Experimental evaluation of masonry-infilled RC frames, 8A746
MEHREGANY, M: Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, 6T350
MEHTA, HS: Fatigue and Crack Growth: Environmental Effects, Modeling Studies, and Design Considerations - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N28
- Fatigue and Fracture Mechanics in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N29
MEHTA, KN: Estimation of increased flow resistance in a narrow catheterized artery: A theoretical model, 12A1473
MEHTA, RC: Thermal erosion of magnetoplasmadynamic thruster cathode, 8T1185
MEHTA, RD: Vortical structure morphology in the initial region of a forced mixing layer: Roll-up and pairing, 11A991
MEHTA, UB: Strategy for developing air-breathing aerospace planes, 9A1344
MEHTO, P: Postural stability and skilled performance: A study on top-level and naive rifle shooters, 6A1381
MEI , ZHANXIN: Analysis of combined shells of revolution using the method of spline function (Chinese), 9T584
MEI , ZHIGUANG: Dynamic model of the solar-powered solid absorption refrigeration system, 7T1276
MEI, C: Sound-structure interaction analysis of composite panels using coupled boundary and FEMs, 1A331
- Finite element time domain modal formulation for large amplitude free vibrations of beams and plates, 12A148
MEI, CC: Mathematical Analysis in Engineering, 1R41
MEI, CHIANG C: Computation of permeability and dispersivities of solute or heat in periodic porous media, 5A1307
- Stationary waves on an inclined sheet of viscous fluid at high Reynolds and moderate Weber numbers, 7A1126
MEI, CHUH: Supression of nonlinear panel flutter at supersonic speeds and elevated temperatures, 7A294
- Shape and placement of piezoelectric sensors for panel flutter limit-cycle suppression, 9T652
MEI, FENGXIANG: Stability for the equilibrium state of Chaplygin's systems, 4A113
MEI, HONGBIN: Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), 4A391
MEI, R: Unsteady forces on spherical bubbles, 1A1040
MEI, RENWEI: Effect of Reynolds number on isotropic turbulent dispersion, 5A961
MEI, ZEQUN: Undercooling of 63SN-37PB solder pastes, 3A868
- Thermal fatigue failure mechanism of 58Bi-42Sn solder joints, 12A1282
MEIARASHI, S: Noise reduction characteristics of porous elastic road surfaces, 12A297
- Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295
MEIER ZU KOCKER, G: Comprehensive tribological characterization of thin TiN-based coatings, 5A798
MEIJAARD, JP: Validation of flexible beam elements in dynamics programs, 7A144
- Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approximation, 10A214
MEIJER, HEH: Viscoelastic flow past a confined cylinder of a polyisobutylene solution, 4A912
MEIJERS, P: Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approximation, 10A214
MEININGER, JM: Observations of tension-compression asymmetry in the cyclic deformation of aluminum alloy 7075, 8A566
MEINZER, K: Arejet development for amateur radio satellite, 7A987
MEIR, AJ: Variational methods for stationary MHD flow under natural interface conditions, 5T984
MEIRON, DI: Steady compressible vortex flows: The hollow-core vortex array, 4A993
MEIROVITCH, L: Control of a flexible space robot executing a docking manuever, 1A426
- Hybrid equations of motion for flexible multibody systems using quasicoordinates, 1A89
- Structural modeling for optimization of low aspect ratio composite wings, 2A1022
- Integrated structural tailoring and control using adaptive materials for advanced aircraft wings, 7A1165
MEISELMAN, HJ: Influence of suspending phase viscosity on the passage of red blood cells through capillary-size micropores, 10A1476
MEISH, VF: Theory of orthotropic shells and plates reinforced by the stiffening ribs, 7A637
- Investigation of wave processes in shells and plates with regard to transverse normal and shear deformation (Russian), 8A492
MEISINGSET, HC: Mathematical modeling of a rotary hearth coke calciner, 4A384
MEISNER, MJ: Dissipated energy as a function of material microstructure: Towards optimum fracture toughness, 10A764
MEISSNER, MW: Experimental investigation of flow-induced acoustic oscillations in a piping system with closed branches, 1A297
MEISTER, E: Initial-boundary value problems in linear viscoelasticity on the half-space, 4A444
MEISTER, J-J: Wave transmission and reflection properties of stenoses, 6A1336
- Effects of time-varying curvature on velocity profiles in a model of the coronary arteries, 8A1433
- Theoretical study of dynamics of arterial wall remodeling in response to changes in blood pressure, 8A1429
MEJAK, G: Numerical computation of critical flow over a spillway by means of minimization of violation of negative curvature condition, 7A1053
MEKANIK, A: Analysis of 2D and 3D unsteady annular flows with oscillating boundaries, based on a time-dependent coordinate transformation, 8T889
MEKHA, BB: Implications of tendon modeling on nonlinear response of TLP, 7A973
MEKHTIYEV, MF: Axisymmetric problem of the theory of elasticity for a non-uniform plate of variable thickness, 4A550
MELAAEN, MC: Numerical analysis of heat and mass transfer in drying and pyrolysis of porous media, 8A1206
MELAMED, N: Evaluation of optimal-guidance algorithm for aeroassisted orbit transfer, 1T392
- Optimal guidance of aeroassisted transfer vehicles based on matched expansions, 1T399
MELANDER, A: Influence of machining defects and inclusions on the fatigue properties of a hardened spring steel, 3A651
MELANDRI, C: High temperature friction and wear testing of silicon nitride ceramics, 5T809
MELBARDIS, J: Stochastic multi-objective optimization of a viscoelastic composite plate (Russian), 1A486
MELBOURNE, C: Arch Bridges, 8N12
MELBOURNE, WH: Chain dampers for control of wind-induced vibration of tower and mast structures, 4A213
- Effect of free-stream turbulence on sectional lift forces on a circular cylinder, 7A1163
MELCER, J: Dynamic calculation of the youth bridge over the Danube River in Bratislava, 1T174
MELCHERS, RE: Failure probability of reinforced concrete columns under stochastic loads, 2A753
MELDRUM, D: Optimal sensor placement of large flexible space structures, 12T411
MELESHKO, VV: Equilibrium of elastic rectangle: Mathieu-Inglis-Pickett solution revisited, 6A473
MELI, R: Seismic load tests on two-story waffle-flat-plate structure, 1A1404
MELIN, LG: Tensile impact delamination of a cross-ply interface studied by moire photography, 3A702
MELLEGARD, KD: Experimental determination of probability distributions for parameters of a salem limestone cap plasticity model, 1A709
MELLEMA, J: Generalized Rouse model for a dilute solution of clustered polymers, 1A968
- Linear viscoelastic properties of ordered latices, 4A887
- Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869
MELLINGS, SC: Three-dimensional flaw identification using inverse analysis, 9A853
MELLOR, AM: Semiempirical correlations of NO_x emissions from utility combustion turbines with inert injection, 11A1283
MELLOR, BG: Fatigue fracture of a weld on a weight training frame, 6A615
MELNIKOV, VA: Contact interaction of the crack edges in a plane under harmonic load, 7A153
MELNIKOV, YA: Green's Functions in Applied Mechanics - Topics in Eng Vol 27, 2R20
MELON, M: Correlation between tortuosity and transmission coefficient of porous media at high frequency, 1A1375
MELONI, GP: Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces, 11A1444
MELSERT, MP: Medway: A high-efficiency combined cycle power plant design, 5A1283

MELSON, ND: Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, 8A990
MELTON, ND: Compression ridges in subsidence troughs, 2T513
MELVILLE, BW: Bridge abutment scour in compound channels, 6T880
- Effects of foundation geometry on bridge pier scour, 9A1053
MELVILLE, WK: Role of surface-wave breaking in air-sea interaction, 6A195
MELVIN, JW: Finite element model study of head impact based on hybrid III head acceleration: The effects of rotational and translational acceleration, 5A22
MELZER, F: Symbolic computations in flexible multibody systems, 7A93
MEMORY, TJ: Free vibration analysis of bridges, 4A205
MENARD, R: Application of Kalman smoother theory to the estimation of 4DVAR error statistics, 8T1368
MENASCE, D: Numerical study of capillary-gravity solitary waves, 8A196
MENDEL, MB: Predicting dynamic imbalance in rotors, 9A233
MENDELSOHN, DA: Ultrasonic wave scattering from rough, imperfect interfaces - Part I: Stochastic interface models, 8A182
- Ultrasonic wave scattering from rough, imperfect interfaces - Part II: Incoherent and coherent scattered fields, 8A183
- Shielding due to aligned microcracks in anisotropic media, 10A813
MENDENHALL, MR: Review of forebody-induced wing rock, 9A1222
MENDERA, Z: Practical factors of safety and design models for steel structures against a background of Eurocode 3 (Polish), 6A763
MENDES, EM: Smoothing data with local instabilities for the identification of chaotic systems, 8A269
MENDES, PRS: Mixed-convection in flows of viscoelastic liquids: A parametric study, 7A1219
MENDEZ, F: Film condensation generated by a forced cooling fluid, 10A1276
- Heat transfer across a vertical wall separating two fluids at different temperatures, 11A1117
- Transient conjugate condensation process on a vertical plate with finite thermal inertia, 11A1175
MENDEZ, J: Microstructural effects on small fatigue crack initiation and growth in Ti6A14V alloys, 6A606
MENDEZ-SANCHEZ, AF: Influence of polymer conformation on the entrance length in capillary flow, 10A1053
MENDIS, KK: Constitutive relationship for large deformation FE modeling of brain tissue, 5A1372
MENDIS, P: Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, 7A938
MENDONCA, JM: Integrating information and material flow executable models, an SDL-based information flow modeling tool, 10A504
MENDOZA-SANTOYO, F: Phase demodulation in the space domain without a fringe carrier, 3A731
MENEGAZZI, P: ST2D3D: A FE program to compute stability criteria for natural convection in complex porous structures, 6A1104
MENEGUZZI, M: Sparse-mode spectral method for the simulation of turbulent flows, 6A46
MENENDEZ, O: Coupling of boundary integral and mixed FEMs, 12A52
MENEZES, G: Computer model of major haemorrhage and resuscitation, 11A1463
MENG , FANSHUN: FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), 6A10
MENG , GUANG: Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), 3A168
MENG , PEISHENG: Semi-discrete analysis for stability of large conical shell stiffened with longitudinal ribs (Chinese), 9T633
MENG , QINCHUN: Analytical-generalized variational method of multi-region on solution of large scale delamination of laminate (Chinese), 9A538
MENG , XIANYAN: Study on ironing using upper-bound approach, 7A727
MENG , ZHAOBO: Inverse analysis method of displacements in rock engineering (Chinese), 9A687
MENG, B: Determination and interpretation of fractal properties of the sandstone pore system, 11A568
MENG, F: Effect of an electromagnetic field on natural convection in an inclined porous layer, 8A1111
MENG, QINGCHUN: Analytical-variational and generalized weighted conservative integral method on solution of interfacial cracks with their applications to bi-metal glued joints, 4A740
MENG, QINGFENG: Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), 4A393
MENGUC, MP: Radiative Heat Transfer - Proc of 1st Int Symp on Radiative Heat Transfer, 10N38
- Investigation of dependent-independent scattering regimes using a discrete dipole approximation, 5A1172
MENIKOFF, R: Modeling flows with curved detonation waves, 8A237
MENON, MN: Subcritical crack growth life prediction for ceramic components of advanced heat engines, 10A805
MENON, R: Adaptive phase-Doppler system and its applications including particle sizing in submicron and nanometer ranges, 9A1250
MENON, S: Effect of subgrid models on the computed interscale energy transfer in isotropic turbulence, 8A975
MENSINK, C: Numerical prediction of periodic vortex shedding in subsonic and transonic turbine cascade flows, 10A1216
MENTER, FR: Skin-friction measurements and calculations on a lifting airfoil, 7A1159
MENTRASTI, L: Shear-torsion of large curvature beams - Part I: General theory, 9A574
- Shear-torsion of large curvature beams - Part II: Applications to thin bodies, 9A575
MENZ, W: Microvalves with bistable buckled polymer diaphragms, 10T462
MENZALA, GP: Scattering frequencies and a class of perturbed systems of elastic waves, 11A179
MENZE, KW: Review of patents in Europe, Japan, and the US: 1993-1994, 8A1198
MENZEL, U: Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, 3A1100
MEOLA , C: Surfactant effects on the dynamics of a thin liquid sheet, 4A1071
MEOLANS, JG: Dissociation rate constants in nonequilibrium flows, 4T994
MEOZZI, M: Simple coefficient for wear assessment, 4A846
MERABET, O: Beam global model for the seismic analysis of RC frames, 12A1397
MERAGHNI, F: Micromechanical modeling of matrix degradation in randomly oriented discontinuous-fiber composites, 5A651
MERCADAL, M: Importance of representative structural models in turboprop acoustics, 6T231
MERCER, CR: High data density temperature measurement for quasi steady-state flows, 12A1199
MEREDITH, P: Fiber optic probe for gas total temperature measurement in turbomachinery, 5A1079
MEREDITH, PG: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578
MEREDITH, WS: Wall temperature effects on the stability of laminar boundary layers, 2T953
MEREMONTE, M: Constraints on the June 29, 1992, Little Skull Mountain, Nevada, earthquake sequence provided by robust hypocenter estimates, 2A1229
MERGELAS, BJ: Discontinuity interaction and anomalous source models in through transmission eddy current testing, 6A699
MERGUI, S: Natural convection in a differently heated square cavity: Experimental investigation at $Ra = 1.69 \times 10^9$, 4A1152
MERIC, RA: Shape design sensitivity analysis and optimization for the nonhomogeneous Helmholtz equation by the BEM, 8A722
MERKIN, JH: Stable pattern and standing wave formation in a simple isothermal cubic autocatalytic reaction scheme, 2A1167
- Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part I: Equal diffusivities, 3A944
- Simple isothermal model for homogeneous-heterogeneous reactions in boundary-layer flow - Part II: Different diffusivities for reactant and autocatalyst, 3A945
- Propagation of isothermal reaction-diffusion waves in coupled autocatalytic systems, 3A1197
- Boundary-layer analysis of the thermal bar, 4A1150
- Conjugate free convection on a vertical surface, 7A1208
- Natural convection from a horizontal permeable surface in a porous medium: Numerical and asymptotic solutions, 9A1371
MERKLE, CL: Unified time-marching procedure for compressible and incompressible flows, 6A915
MERLANI, AL: Pressure and temperature dynamics in fluid-saturated porous-permeable rocks, 7A1362
MERLET, J-P: Computational Kinematics '95 - Proc of 2nd Workshop on Computational Kinematics, Sept 4-6, 1995, Sophia Antipolis, France, 3N8
MERLI, M: Dynamic analysis of coupled shear wall-frame systems, 11A140
MERLIN, J: Modulation in real time of the energy repartition of a laser beam (French), 4A772
- Acquisitions and quantitative data handling of laser beam analyzer signals (French), 4T768
MERLINO, RL: Experiments on ion-acoustic waves in dusty plasmas, 10A1185
MERMILLIOD, N: Improvement of polypropylene film adhesion in multilayers by various chemical surface modifications, 7A1036
MERONEY, RN: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
MERRONY, B: Design charts for reinforced concrete circular columns in accordance with Eurocode 2, 7A950
MERRYFIELD, WJ: Inviscid quasi-geostrophic flow over topography: Testing statistical mechanical theory, 8A1356
MERTE JR, H: Hemispherical vapor bubble growth in microgravity: Experiments and model, 11A1163
- Spherical vapor bubble growth in uniformly superheated liquids, 11A1166
MERTINS, H: Orientation dependent tensile deformation behavior of two-phase laminate composites: Model analysis and FE results, 8A459
MERZ, B: Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint, 6A1317
MERZ, R: Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, 8A1171
MERZBACHER, CI: Fiber optic sensors in concrete structures: A review, 11T348
MERZHANOV, AG: Fluid dynamics phenomena in the process of self-propagating high-temprature synthesis, 2A1187
MERZKIRCH, W: PIV measurements in multiphase flow with nominally high concentration of the solid phase, 7T1095
- Visualization of turbulence anisotropy by single exposure speckle photography, 10A1183
MERZLYAKOV, VA: Determining the stress-strained state of the shells of revolution under local effects (Russian), 7A620
MESCHKE, G: Tying algorithm for linking of FE meshes with different degrees of refinement: Application to FE analysis of tires, 6A69
MESHKOV, VV: Fracture of reinforced thermoplastics, 7A793
MESIC, E: Damping distribution over the flexible connections in the frame structures, 11T131
MESIDOR, E: Flexural and shear behavior of bridge pier caps, 9A917
MESQUINE, F: Constrained stability with an assigned initial condition set, 2T254
MESSAC, A: Physical programming: Effective optimization for computational design, 6A857
- Physical programming design optimization for high speed civil transport, 9T963
- Flexible-body dynamics modeling of a vehicle moving on the rails of a structure, 11A326
MESSERLE, VE: Mathematical model of the processes of ignition, combustion, and gasification of the pulverized coal fuel in the electric arc devices, 5A1253
- Comparative analysis of plasma and fire technologies of pulverized coal ignition, combustion and gasification using a mathematical model of a chemically nonequilibrium system, 12A1313
MESSERSCHMID, EW: Arcjet development for amateur radio satellite, 7A987
MESSINA, A: Dynamic behavior of a mobile robot vehicle with a two caster and two driving wheel configuration, 7A399
MESTEL, AJ: Electrohydrodynamic stability of a highly-viscous jet, 10A1184
MESTER, SS: Parameter study of localization, 6A114
MESYNGIER, C: Turbulent natural convection-nongray gas radiation analysis in a square enclosure, 12A1253
METAIS, O: Coherent vortices in thermally stratified and rotating turbulence, 5A1137
- New trends in large-eddy simulations of turbulence, 6A997
METCALF, JB: Resilient modules of cement-stabilized phosphogypsum, 7A549
METCALF, MJ: Propagation of isothermal reaction-diffusion waves in coupled autocatalytic systems, 3A1197
METCALFE, G: Convection in ^{3}He-superfluid-^{4}He mixtures - Part 2: A survey of instabilities, 7A1118
- Convection in ^{3}He-superfluid-^{4}He mixtures - Part 1: A Boussinesq analogue, 7A1211
METCALFE, RW: New mechanism of small-scale transition in a plane mixing layer: Core dynamics of spanwise vortices, 2A868
METRIKINE, A: Equivalent stiffness of a half-space interacting with a beam: Critical velocities of a moving load along the beam, 8A176
METWALLY, HMB: Performance analysis of PV pumping systems using switched-reluctance motor drives, 8A1387
METZENER, P: Dynamical patterns in directional solidification, 11A610
METZGER, DE: Flows generated by the impingement of a jet on a rotating surface - Part I: Basic flow patterns, 9A1165
- Flows generated by the impingement of a jet on a rotating surface - Part II: Detailed flow structure and analysis, 9A1166
MEUNIER, F: Experimental temperature fronts for adsorptive heat pump applications, 8A1210
- Numerical analysis of adsorptive temperature wave regenerative heat pump, 8A1211
MEURISSE, MH: Determination of tribological history and wear through visualization in lubricated contacts using a carbon-based composite, 12A880
MEWIS, J: Origin of nonlinearities in the Bagley plots of thermotropic copolyesters, 8A870
- Transient rheological behavior of poly-para-phenyleneterephthalamide (PpPTA) in sulphuric acid, 9A1084
- Shear thickening in model suspensions of sterically stabilized particles, 12A1005
- Relationship between rheology and morphology of model blends in steady shear flow, 12A1010
MEYER, C: Design of Concrete Structures - Prentice Hall International Series in Civil Engineering and Engineering Mechanics, 8R9
MEYER, CJ: Flow distortions at the fan inlet of forced-draught air-cooled heat exchangers, 12A1257
MEYER, E: Infrared analysis of flame-generated PAH samples, 9A1336
MEYER, JL: Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, 6A310
MEYER, KAJ: Measurement and interpretation of growth of monodispersed water droplets suspended in pure vapor, 2A1113
MEYER, M: Tribological behavior of solid lubricant coatings, 6T828
MEYER, SA: Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
MEYER, U: Influence of environmental variables on erosion-corrosion of carbon steel in spent liquor reheaters in Bayer plant, 4A683
MEYER-PIENING, H-R: Transient response of sandwich plates in contact with water, 12A169
MEYERS, RE: Isentropic flow of an inviscid gas, 2A900
MEYERS, RJ: Generalized 3D paving: Automated quadrilateral surface mesh generation algorithm, 10A45
MEYN, LA: Full-scale wind-tunnel studies of F/A-18 tail buffet, 11A1026
MEYWERK, M: Regularization in the governing equations of railway wheel models, 6A150
MEZGHANI, A: Slip flow of polybutadiene through fluorinated dies, 1T715
MEZIANI, S: Calculs statiques et dynamiques des poutres a parois minces a section fermee, de forme carree ou rectangulaire par la methode de Vlasov (French), 2A464
MEZIC, I: Maximal effective diffusivity for time-periodic incompressible fluid flows, 7A1297
MEZLYAKOV, VA: Calculation of thermoviscoelastoplastic nonaxisym-metrical deformation of the shells of revolution with thickness variable in two directions, 7A609
MHETAR, VR: Secondary flow of entangled polymer fluids in plane Couette flow, 12A1118
MI, J: Vorticity characteristics of the turbulent intermediate wake, 9A1182
MI, Y: Taylor expansion algorithm for integration of 3D near-hypersingular integrals, 7A57
MIANI, S: Constrained stability with an assigned initial condition set, 2T254
MIAO, AX: Multistage integration model for human egomotion perception, 3A1412
MIAO, MING: Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), 7A909
MIAO, SHUKE: Constitutive models for healing of materials with application to compaction of crushed rock salt, 2A608
MIAO, Y: Asymptotic analysis of growing crack stress-deformation fields in porous ductile metals and implications for stable crack growth, 3A686
MIAU, JJ: Flow developments above 50-deg sweep delta wings with different leading-edge profiles, 1A1102
- Vertically oscillating plate disturbing the development of a boundary layer, 2A949
- Swirling flows in circular to rectangular transition ducts, 10A1148
- Flopping phenomenon of flow behind two plates placed side-by-side normal to the flow direction, 10A1164
MICCI, MM: Investigation of stabilized resonant cavity microwave plasmas for propulsion, 2A1199
- Magnetic flow meter measurement of solid propellant pressure-coupled responses using an acoustic analysis, 8T1272
MICCOLI, S: Symmetric Galerkin BEM in plasticity and gradient plasticity, 6A413
MICHAEL, O: Use of Boundary Strip Method for evaluation of the transverse mechanical properties of fibrous composites, 4A536
- Boundary strip method in elastostatics and potential equations, 7A515
MICHAEL, PC: Thermal activation in boundary lubricated friction, 12A896
MICHAELI, A: Asymptotic analysis of the field on the exterior surface of an open semi-infinite thin circular pipe, 11A166
MICHAELIDES, EE: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Unsteady heat transfer from a sphere at small Peclet numbers, 9A1264
- Numerical study of the flow over ellipsoidal objects inside a cylindrical tube, 11A897
MICHALAK, B: Dynamic modeling of elastic wavy plates, 8A113

MICHALAKIS, DG: Equilibrium configurations of the restricted problem of 2 + 2 triaxial rigid bodies, 10A324
MICHALKE, A: Receptivity of axisymmetric boundary layers due to excitation by a Dirac point source at the wall, 1A1046
- Coherence of the sound field in a circular duct with uniform mean flow, 7A317
MICHALLAND, S: Instabilities of the upstream meniscus in directional viscous fingering, 10A1170
MICHALOPOULOU, Z-H: Bayesian modeling of acoustic signals for seafloor identification, 6A257
MICHALOWSKI, J: Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, 9A725
- Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, 9A726
MICHALOWSKI, RL: Failure of fiber-reinforced granular soils, 8A532
MICHALSKY, J: Comparison of irradiance measurements made with the multi-filter rotating shadowband radiometer and first-class thermopile radiometers, 5A1350
MICHALTSOS, G: Effect of a moving mass and other parameters on the dynamic response of a simply-supported beam, 10A145
MICHALTSOS, GT: Behavior of square joints of steel frames under bending moments, 3A859
MICHEA, B: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046
MICHEL, B: Elasto-visco-plastic FE analysis of a cold upsetting test and stress-state validation by residual-stress measurements, 6A13
MICHELENA, NF: Network reliability approach to optimal decomposition of design problems, 5A855
MICHELI, D: Velocity measurements downstream of the impellers in a multistage centrifugal blower, 5A1048
MICHELI, F: Analysis of helicopter blade vortex structure by laser velocimetry, 12A1184
MICHELSON, D: Stability of the bunsen flame profiles in the Kuramoto-Sivashinsky equation, 10A1364
MICHIELSE, P: Parallel multigrid using PVM, 6A66
MICHIHIRO, K: Application of acoustic emission technique for estimation of initial stress (Japanese), 1A851
MICHINO, M: Determination of flow stress by inverse solution using FEM, 1A23
MICHIWAKI, H: 3D measurement and CAD, 3A849
MICHOPOULOS, Y: Simulated non-Newtonian lubricant behavior under extreme conditions, 4A1126
MICIC, TV: Reliability analysis for highway bridge deck assessment, 3A802
MICKENS, RE: Number of limit cycles for the generalized mixed Rayleigh-Lienard oscillator, 8T104
- Spurious limit-cycles arising in higher order averaging methods, 12T122
MICKLEM, JD: Magnitude of the losses in the steel pushing V-belt continuously variable transmission, 7A1008
MICKLOW, GJ: Numerical analysis of the flowfields in a staged gas turbine combustor, 2A1041
MICOL, JR: Aerothermodynamic measurement and prediction for modified orbiter at Mach 6 and 10, 5A717
MIDDLETON, DES: Friction of currency bills, 11A804
MIDHA, A: Topological synthesis of compliant mechanisms, 6A858
- Loop-closure theory for the analysis and synthesis of compliant mechanisms, 8A841
- Evaluation of equivalent spring stiffness for use in a pseudo-rigid-body model of large-deflection compliant mechanisms, 8A840
MIEDZIALOWSKI, C: Modeling of subsoil flexibility in computations of complex 3D structural schemes of buildings, 9A678
MIEHE, C: Discontinuous and continuous damage evolution in Ogden-type large-strain elastic materials, 3A673
- Theory of large-strain isotropic thermoplasticity based on metric transformation tensors, 5A1190
- Instability phenomena in plasticity: Modeling and computation, 6A410
- Fast transient dynamic plane stress analysis of orthotropic Hill-type solids at finite elastoplastic strains, 8A377
MIELCZAREK, G: Micro-dynamics of composite materials, 3A64
- Optimization of the structure of a multilayer cylindrical shell under stability loss conditions, 9A945
MIELCZAREK, M: Aerodynamic testing of cylindrical shell in model wind tunnel (Polish), 10A241
MIELCZAREK, Z: Analysis and investigation of double-tee wooden girders (Polish), 6A472
- Experimental investigation of box-section floor elements (Polish), 10A910
- Influence of material distribution between flanges and Web on the behavior of wooden beams with flexible joints (Polish), 10A911
MIELE, A: Near-optimal highly robust guidance for aeroassisted orbital transfer, 11A314
MIESEN, R: Hydrodynamic stability of a sheared liquid film, 4A1066
MIGACHEV, BA: Prediction of resources of materials of machine and construction elements in the process of manufacture and exploitation, 7A810
MIGLIARDO, M: Quasi-monochromatic wave modulation in anisotropic dielectric media, 5A541
MIGLIAVACCA, F: Numerical analysis of steady flow in aorto-coronary bypass 3D model, 11A1468
MIGLIETTI, W: Comparison between EBW and GTAW for Turmo IV C compressor blade repairs, 5A1052
MIGNOGNA, RB: Parallel processing approach to acoustic tomography, 9A386
MIGNOLET, MP: Optimality in the estimation of a MA system from a long AR model for simulation studies, 4A1337
- Comparison of some simulation algorithms on basis of distribution, 7A69
- Effects of damping and damping mistuning on the forced vibration response of bladed disks, 12A181
MIGNOSI, A: Rear fuselage flow studies on a modern transonic transport aircraft, 5A997
MIGORSKI, S: Sensitivity analysis of distributed-parameter optimal control problems for nonlinear parabolic equations, 6T277
MIHAILESCU-SULICIU, M: Energy estimates and energy control of numerical stability in coupled dynamic thermoelasticity, 2T1153
- Transient response of an impulsively-loaded plastic string on a plastic foundation, 11A449
MIHALACHE, O: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
MIHALAKAKOU, G: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423
- Ground temperature below buildings, 4A1200
MIHOSHI, A: Rate of people who have transport physical difficulty and their traffic demands (Japanese), 1T1468
- Basic study on special bus service planning for improving mobility of elderly (Japanese), 1T1466
MIJALKOVIC, M: One procedure for determination of limit loading of built-in portal frame of one bay with movable joints, 11T715
MIKA, P: Computer analysis of damage development in rectangular plates, 1A834
MIKAMI, H: Effect of the dewatered vertical drain method against soil liquefaction (Japanese), 10A655
MIKELIC, A: Stationary quasi-Newtonian flow obeying a power-law, 2A889
- Homogenization of a polymer flow through a porous medium, 8T1322
MIKHAIL, AG: Flow simulation and drag anatomy for antitank projectile configurations, 5T254
- Roll damping for projectiles including wraparound, offset, and arbitrary number of fins, 5A165
- Spike-nosed projectiles with vortex rings: Steady and nonsteady flow simulations, 7A1085
MIKHAILENKO, SV: Resonance contour oscillations of a piezoelectric plate with autoadjusted frequency (Russian), 7A165
MIKHAILENKO, VV: Resonance contour oscillations of a piezoelectric plate with autoadjusted frequency (Russian), 7A165
- Resonance vibrations of axisymmetrical electromechanical system with AFC (Russian), 7A1030
MIKHAILOV, A: Controlling turbulence in the complex Ginzburg-Landau equation, 7A105
MIKHAILOV, SE: Functional approach to non-local strength conditions and fracture criteria - I: Body and point fracture, 2A610
- Functional approach to non-local strength conditions and fracture criteria - II: Discrete fracture, 2A611
MIKHAILOVA, NI: Possibility of nondestructive determination of critical load of the rod-type structures, 7A655
MIKHAILOVSKII, EI: Boundary conditions for rigid-flexible shell with reinforced edge in a nonlinear theory of Timoshenko-Reissner type, 5A499
MIKHAILUTSA, EN: Stationary waves in a two-layered cylindrical shell with elastic junction of the layers, 7A225
- Distribution of free waves in the composite plate with elastic coupling between layers, 7A233
MIKHASKIV, VV: Time-marching solution of 3D dynamic problems in crack theory, 7A855
MIKHASEV, GI: Wave motion of an unbounded cylindrical shell with variable parameters, 10A190
MIKI, C: Local stress and fatigue strength of the joint between longitudinal and transverse ribs in orthotropic steel deck plate (Japanese), 1A616
- Study on generating mechanism of ultrasonic tip echo reflected from the sharp tips of a flaw (Japanese), 5A673
- Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), 11A779
MIKI, M: Object-oriented optimization of discrete structures, 3A761
- Parallel computing for analysis of variable geometry trusses, 12A855
- Object-oriented approach to optimize composite laminated plate stiffness with discrete ply angles, 12A559
MIKI, N: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
MIKIC, B: Integrated solar collector storage system based on a salt-hydrate phase-change material, 5A1359
MIKKELSEN, A: Dynamics of coaxial torsional resonators consisting of segments with different radii, material properties, and surrounding media, 1A960
- Automated high-pressure, high temperature, low-frequency viscometer, 1A970
MIKKELSEN, J: Waste-heat recovery in batch processes using heat storage, 1A1436
MIKKELSEN, LP: Elastic-viscoplastic buckling of circular cylindrical shells under axial compression, 4A583
MIKLOS, A: Documentation of the sound of a historical pipe organ, 2A215
MIKOLAJCZYK, T: High-tenacity and high-modulus polyacrylonitrile fibers, 6A461
- Effect of spinning solution filterability on selected properties of precursor PAN fibers and carbon fibers manufactured therefrom, 9A528
- High-tenacity and high-modulus polyacrylonitrile fibers from high-molecular-weight homopolymers, 10A597
MIKOLAJCZYK, Z: Identification of the dynamic properties of yarn used in rib knitting, 10A207
MIKOS, M: Experiments on motion of sediment mixtures in a tumbling mill to study fluvial abrasion, 7T1048
MIKROVAS, AC: Experimental investigation on natural and forced convection in liquid metals, 4A1148
MIKSIS, MJ: Thin film rupture, 10A293
MIKSIS, NJ: Panel oscillations and acoustic waves, 2A191
MIKULAS JR, MM: Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, 5A332
MIKULINSKY, MA: Pre- and postbuckling behavior of mechanical structures in terms of phase transitions, 2A485
MIKULSKI, L: Optimization of continuous beams for minimum displacement, 3A762
- Optimization of continuous beams for minimum displacement, 9A890
MIKURIYA, T: Effect of biaxial stress ratio on the propagation behavior of mode I surface cracks by the combination of plane bending and cyclic torsion, 12A709
MILACIC, D: Development of anti-lock braking traction and control systems of the Advanced Technology Demonstrator II using DADS simulation code, 11A324
MILAN, MT: Fatigue crack initiation and propagation on shot-peened surfaces in A316 stainless steel, 4A670
MILANA, G: Site response from ambient noise measurements: New perspectives from an array study in Central Italy, 11A1398
MILANESI, S: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
MILANO, G: Kalman smoothing technique applied to the inverse heat conduction problem, 1A1264
MILANO, J: Helicopter flight data feature extraction or component load monitoring, 7A1182
MILANOVICH, OA: Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, 7A667
MILBURN, DI: Directional response error in integrating-sphere transmittance measurements at solar wavelengths, 1A1426
MILEHAM, AR: Analysis and computer simulation of the electrochemical machining process: A stepped moving tool eroding a plane surface, 10A719
MILEIKO, ST: Boron-aluminium shells under hydrostatic pressure, 3A512
- Carbon-fiber-titanium silicide interphase-titanium-matrix composites: Fabrication, structure and mechanical properties, 6A421
MILENKOVIC, D: Unsteady MHD boundary layer on a porous surface, 12A1160
MILES, DI: Design and testing of a solid-sorption heat-pump system, 8A1209
MILES, J: Note on modulated cross-waves, 1A234
- Forced capillary-gravity waves in a circular cylinder, 12A246
MILES, JB: Cone-derived waverider flowfield simulation including turbulence and off-design conditions, 10A1093
MILES, KC: Auto-processing of very fine-scale composite materials by chaotic mixing of melts, 4A649
MILES, MP: Finite element calculation of thermal coupling between workpiece and tools in forging, 9A693
MILES, RB: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
- Demonstration and characterization of filtered Rayleigh scattering for planar velocity measurements, 8A1050
MILES, RN: Measurement of the transfer function between bending strain and a transient load using a scanning laser vibrometer, 7A191
- Full-field random bending strain measurement of a plate from vibration measurements, 10A174
MILESI-BELLIER, C: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292
MILEWSKA-DUDA, J: Application of multiple sorption model to prediction of sorptive and dilatometric properties of coal related to water and methane under different pressure conditions, 9A1366
MILFORD, RI: Experimental on-line frequency domain identification and adaptive control of a flexible slewing beam, 9A423
MILHOLEN II, WE: Performance of 3D compressible Navier-Stokes codes at low mach numbers, 12A1078
MILICEVIC, M: Analysis of linear systems with semi-rigid connections, 11T784
MILICKA, K: Constitutive description of creep curves based on internal stress evolution, 3A450
MILIOS, E: Landmark selection strategies for path execution, 12T438
MILLARD, SG: Testing of Concrete in Structures, Third Edition, 10N26
- Radar assessment of structural concrete using neural networks, 4A784
MILLBANK, SFD: Static *in situ* calibration of force plates, 8A1441
MILLENER, PJ: Mathematical modeling of brush seals, 6A1157
MILLER , SE: Self-sensing piezolaminated actuator model for shells using a first order shear deformation theory, 3A538
MILLER, A: Manufacture of polyphenylene sulfide matrix composites via the powder impregnation route, 4A948
MILLER, AK: Phenomenological model for intergranular failure by r-type and wedge-type cavitation, 5A607
- Die-less forming of large and variable-radii of curvature in continuous-fiber thermoplastic-matrix composite materials, 10A717
MILLER, B: Effects of external loading of fiber on fiber-matrix interfacial shear strength, 5A641
MILLER, BM: Generalized solutions of nonlinear optimization problems with impulse control, 12A351
MILLER, DA: Modeling of oxidation in metal matrix composites, 4A1247
MILLER, DE: Model reference adaptive control for nonminimum phase systems, 3T336
MILLER, DL: 1-pentene oxidation and its interaction with nitric oxide in the low and negative temperature coefficient regions, 9A1327
MILLER, DW: Derivation of zero-gravity structural control models from analysis and ground experimentation, 12T402
- Frequency domain structural system identification by observability range space extraction, 12A326
MILLER, JA: Rich flammability limits in CH_3OH-CO-diluent mixtures, 7A1336
- Effect of allene addition on the structure of a rich $C_2H_2/O_2/Ar$ flame, 11A1281
MILLER, JH: Computation of hypersonic flows with finite catalytic walls, 1A1016
- Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
- Forward coupled-mode propagation modeling for coastal acoustic tomography, 7A361
MILLER, JL: Preliminary evaluation of hybrid titanium composite laminates, 8A460
MILLER, JR: Global-local analysis of large-scale composite structures using FEMs, 4A811
MILLER, KG: Stationary corner vortex configurations, 8A886
MILLER, KJ: Short crack coalescence and growth in 316 stainless steel subjected to cyclic and time dependent deformation, 6A608
- Crack growth morphology and microstructural changes in 316 stainless steel under creep-fatigue cycling, 6A603
MILLER, KL: Saint-Venant end effects for plane deformations of elastic composites, 1A530
MILLER, LR: Modeling and performance of an experimental active vibration isolator, 5A168
MILLER, MC: Physical modeling of hip joint forces in stair climbing, 9A1439
MILLER, MF: Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, 8A1057
MILLER, MS: Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342
MILLER, PL: Measurements of scalar power spectra in high Schmidt number turbulent jets, 8A979
MILLER, RA: Compressive fatigue of a plasma sprayed ZrO_2-8 wt% Y_2O_3 and ZrO_2-10 wt% NiCrAlCoY TTBC, 5A591
- Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769
MILLER, RN: Comparison of parallelization techniques for a FE quasigeostrophic model of regional ocean circulation, 6A23
MILLER, RS: Non-Gaussian scalar statistics in homogeneous turbulence, 11A989

MILLER, S: Relationship between basketball shooting kinematics, distance and playing position, 12A1495
MILLER, SA: Two-fluid nonequilibrium simulation of hydrogen arcjet thrusters, 6A1218
MILLIC, N: Tribological behavior of solid lubricant coatings, 6T828
MILLIGAN, KB: Numerical investigation of the elastothermodynamic damping of fiber-reinforced metal-matrix composites, 5T486
MILLIGAN, MW: Monitoring airplane takeoff performance: Prototype instrument with learning capability, 1A1115
MILLIKEN, DL: Race Car Vehicle Dynamics, 12N9
MILLIKEN, WF: Race Car Vehicle Dynamics, 12N9
MILLOT, TA: Vibration reduction in rotorcraft using active control: A comparison of various approaches, 1A415
MILLS, H: Applying backpropagation neural networks to fringe analysis, 3A726
MILLS, I: Cyclic strain causes heterogeneous induction of transcription factors, AP-1, CRE binding protein and NF-kB in endothelial cells: Species and vascular bed diversity, 5A1382
MILLS, JK: Manipulator control design using a nonparametric method, 2A314
MILLS, PDA: Modeling the influence of filler particles on surface geometry in drawn PET film, 6A418
MILLWARD, JA: Windage heating of air passing through labyrinth seals, 11A1045
MILLWATER, HR: Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, 10A825
MILMAN, M: Mode shape expansion techniques for prediction: Experimental evaluation, 9A245
MILNE, AD: Accuracy of an electromagnetic tracking device: A study of the optimal operating range and metal interference, 10A1483
MILNE, AM: Numerical modeling of chemistry and gas dynamics during shock-induced ethylene combustion, 8A1280
MILNE, RD: Theoretical and numerical assessment of strain pattern analysis, 10A140
MILNER, ST: Relating the shear-thinning curve to the molecular weight distribution in linear polymer melts, 8A859
- Copolymers promote mixing of immiscible homopolymers, 12A999
MILOH, T: Computations of steep gravity waves by a refinement of Davies-Tulin's approximation, 1A229
- Dynamic equations of motion for a rigid or deformable body in an arbitrary non-uniform potential flow field, 1A1000
- Ship motion in non-homogeneous media, 1A1097
- Barrier strategies and capture criteria in a 3D pursuit-evasion differential game, 4T364
- Inertial space optimal trajectories of aerial 3D pursuit-evasion differential game, 11T309
- Influence of a bottom mud layer on the resistance of marine vehicles, 12A1163
- Influence of a layer of mud on the train of waves generated by a moving pressure distribution, 12A247
MILOSAVLJEVIC, C: Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, 11A384
MILOSAVLJEVIC, R: Analytic sensitivity and approximation of skin buckling constraints in wing-shape synthesis, 2A1009
MILOSEVIC, M: Efficient procedure for evaluation of sound energy density in a rectangular room, 11T260
MILOVANOVIC, B: Efficient procedure for evaluation of sound energy density in a rectangular room, 11T260
MILROY, MJ: Reverse engineering physical models employing wrap-around B-spline surfaces and quadrics, 10A508
MILTON, BE: Computational study of shock wave focusing in a log-spiral duct, 3A210
MILTON, GW: Complete characterization of the possible bulk and shear moduli of planar polycrystals, 12A3
MILTON, J: Complex dynamics and multistability in a damped harmonic oscillator with delayed negative feedback, 5A90
MILYOKHIN, LN: Longitudinal motion control system of surface effect vehicle, 8A314
MILYOKHIN, VN: Investigation of combined scheme of designing air cushion, 8A1022
MIMAKI, T: Application of nonlinear mixed integer programming as optimization procedure, 3A850
MIMURA, H: Comments on a current model for scatter of fracture toughness in carbon steels, 1A771
MIMURA, K: Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, 10A1331
MIN CHOI, JIN: Development of a new curved beam element with shear effect, 11A504
MIN, BYUNG-KWON: Exploration of a mobile robot based on sonar probability mapping, 9A450
MIN, CHANG SHIK: Vector algorithm for layered reinforced concrete shell element stiffness matrix, 8A40
MIN, CHANG-SHIK: Inelastic vector FE analysis of RC shells, 8A17
MIN, DONG-KYUN: Study on process improvements of multi-stage deep-drawing by the FEM, 6A562
MIN, J: Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, 12A926
MIN, JB: Adaptive FEMs for continuum damage modeling, 5A616
MIN, K: Oxidation of the piston crevice hydrocarbon during the expansion process in a spark ignition engine, 3A1229
MIN, OAK-KEY: Optimal strain locations of 2D continuum elements in terms of field-consistency, 10A529
MIN, OAK-KEY: Numerical reduced minimization theory for beam elements under nonuniform isoparametric mapping, 10A602
MINA, C: Static calibration of industrial manipulators: Design of an optical instrumentation and application to SCARA robots, 11A395
MINAEV, SS: Analytical solution of the equation describing the outward propagating wrinkled flame, 3T1206
MINAGAWA, H: Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, 4A1017
MINAKAWA, N: Residual stress measurement in socket welded joints by Neutron diffraction (Japanese), 7A897
MINAKOV, BV: Prediction of the growth of internal fatigue cracks, 6A677
MINAKOVA, NI: Mathematical modeling of stability of a viscoelastic shell with nonequal curvatures, 7A667
MINAKUCHI, Y: Ultrasonic measurement of bone and bone marrow thicknesses in femur covered with flesh by inserting a hip prosthesis stem, 3A1402
MINALE, M: Ice streams in Antarctica: Transverse instability of gravity-driven flow, 8A1299
MINAMI, F: Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), 12A776
MINAMI, I: New researches in additives (2): R&D toward novel lubricity additives, 10T1231
MINAMI, K: Silicon resonant angular rate sensor using electromagnetic excitation and capacitive detection, 3A395
- Microphysical investigations on mechanical structures realized in p+ silicon, 5T352
MINARDI, A: Coupled FDM-BEM solution for the conjugate heat transfer problem, 1A1212
- Semianalytical polynomial interpolation method for the efficient solution of the radiative heat transfer equation, 1A1275
MINASYAN, M: Chaotic vibrations of a nonlinear viscoelastic beam, 9A182
MINATANI, N: Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
MINATO, T: Risk analysis methodology for corporate management options, 4A425
MINCOFF, NH: Expert system shell for the selection of metal-cutting parameters, 7A740
MINDESS, S: Properties of paste-rock interfaces and their influence on composite behavior, 4A480
MINDOLIN, YI: Anisotropic plate under influence of distributed and point heat sources, 5A1186
MINEMOTO, M: Study on the limit state design method for tunnel linings (Japanese), 4A823
MINEMURA, K: Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, 8A1035
MINER, JR: F117-PW-100 hybrid ball bearing ceramic technology insertion, 10A1010
MINER, KR: Composite design methodology: Design of composite trails for the US Army's M198 Howitzer: A case study, 12A572
MINES, RAW: Approximate elastic-plastic analysis of the static and impact beaviour of polymer composite sandwich beams, 4A522
MINESUGI, K: Alternative control logic for type-II variable-stiffness system, 6T118
- Semiactive vibration suppression by variable-damping members, 7A138
- Two-dimensional deployable hexapod truss, 12A869
MINEV, PD: Approximate projection scheme for incompressible flow using spectral elements, 9A1086
MING , OUYANG: Analytical solution of flow field and pressure drop for filters with noncircular fibers, 2A935
MING , RUISEN: Vibrational transmission between flanged plates (Chinese), 3A263
MING, AIGO: Design of wire parallel mechanism, 9A1028
MING, CHEN: Mechatronics of the textile industry, 6T344
MING, XIE: Corrections for frequency, amplitude and phase in a fast Fourier transform of a harmonic signal, 11A63
MING, Y-HE: Numerical study of the compression and shear failure of woven carbon-carbon laminates, 6A670
MINGAZOV, BG: Modeling processes in GTE combustors, 6A1201
MINGORI, DL: Nutational stability and passive control of spinning rockets with internal mass motion, 3T90
- Nonlinear control of dual-spin spacecraft during despin through precission phase lock, 6A296
MINGRUI, LI: Geometric nonlinear analysis of frame structures - II: 3D problem (Chinese), 9A30
MINGUEZ, JM: Failure in lug joints and plates with holes, 2A366
MINHAS, H: Numerical analysis of heat transfer in an air-filled bayonet tube under laminar conditions, 5A1129
- Laminar-turbulent transition in a bayonet tube, 11A958
MINION, ML: Stability of Godunov-projection methods for incompressible flow, 7T1072
MINIS, I: Attractor embedding in metal cutting, 1T717
- Characteristics of dimension functions associated with cutting measurements, 5A156
- Phase coupling in orthogonal cutting, 10T707
MINOSHIMA, K: Instantaneous color-coding of 3D shape (Japanese), 12T802
MINOTTI, P: Etude theorique d'un microtranslateur piezoelectrique a ondes stationnaires: Une introduction aux futurs micromoteurs multi degres de liberte (French), 4A593
MINOWA, C: Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
MINYARD, T: Hybrid spectral-finite volume method for viscous flows, 9A1067
MIQUEL, J: Plastic damage constitutive model for composite materials, 11A660
MIR, RA: Investigation into the base sliding response of rigid concrete gravity dams to dynamic loading, 6A1275
MIRABELLA ROBERTI, G: Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, 3A520
MIRACLE, DB: Ultrasonic evaluation of the processing of fiber-reinforced metal-matrix composites, 1A856
- Effects of an interfacial region on the transverse behavior of metal-matrix composites: A FE analysis, 9A558
MIRAMONTES, D: Beam global model for the seismic analysis of RC frames, 12A1397
MIRANDA, L: Free-field sound power levels of open-inlet and open-outlet fans and comparison with in-duct measurements, 1A298
MIRANDA, RF: Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, 5T952
MIRANVILLE, A: Flows in a curved channel, 11A557
MIRMIRAN, A: Local damage assessment of metal barriers under turbine missile impacts, 6A168
MIRONOV, AE: Development and adoption of new high-strength babbitts for rolling stock sliding bearings, 5T825
MIRONOV, OA: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512
MIRONOV, VS: Effect of electrophysical activation of components of polymer composites on their adhesional interaction (Russian), 8A854
MIROSZNIKOW, WP: Kinetic description of self organization in friction process (Polish), 6A786
MIRSAFIAN, S: Forced vibration of two beams joined with a nonlinear rotational joint: Clamped and simply supported end conditions, 12A149
MIRTICH, B: Shortest paths for a car-like robot to manifolds in configuration space, 7A457
MIRVIS, Y: Prediction of high temperature metal matrix structural material failure using a massively parallel computer, 5A483
MIRZA, MS: Numerical study of ductile void growth under dynamic loading conditions, 8A634
MIRZA, S: Analytical approach to free vibration of sandwich plates, 3T139
MIRZAIAN, A: Landmark selection strategies for path execution, 12T438
MISA, JS: Simplified geometrically nonlinear elastoplastic analysis of semirigid frames, 7A970
- Large displacement elastoplastic analysis of semirigid steel frames, 8A767
MISAJI, K: Vibration analysis of rubber vibration isolators of vehicle using the restoring force model of power function type: Analysis of nonlinear vibration using frequency characteristics determined by the hysteresis loop, 6A164
MISAWA, EA: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
MISCHKE, CR: Standard Handbook of Machine Design, Second Edition, 12N34
MISH, SP: Methods for investigating the sensitivity of joint resultants to body segment parameter variations, 8A1411
MISHEV, ID: Finite volume methods for convection-diffusion problems, 7A1301
MISHIMA, H: Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, 8A1221
MISHIN, VV: Formation of kinematic and dynamic parameters of variable-structure mechanisms in a transient mode, 9A1010
MISHRA, D: Computation of flow and heat transfer around a vertical discrete protruding heater using an operator-splitting algorithm, 1A1200
MISHRA, DK: Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, 5A468
MISHRA, RC: Rectangular plates resting on tensionless elastic foundation: Some new results, 10A618
MISHRA, RS: Steady state creep behavior of particulate-reinforced titanium matrix composites, 8A412
MISHRA, SS: Stability of a rigid rotor in turbulent hydrodynamic worn journal bearings, 11A1076
MISHURIS, GS: Boundary value problems for Poisson's equation in a multi-wedge and multi-layered region, 1A579
- Boundary value problems in fracture of elastic composites, 5A636
- Comparative study of stresses near crack tip for layered and homogeneous models of composite, 10A789
MISICU, M: Estimative analysis of SH-waves propagation through a layered half-space, 11T171
MISIUK, A: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283
MISKA, S: Experiments in thermal spallation of various rocks, 8A1370
MISRA, AK: Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II, 6N7
- Optimal atmospheric trajectory for aerogravity assist with heat constraint, 1T397
- General formulation for N-body tethered satellite system dynamics, 6A80
- Control of Tethered Satellite Systems using thruster and offset strategies, 11A321
MISRA, BK: Geometric modeling of manufacturing processes using symbolic and computational conjugate geometry, 5A383
MISRA, D: Comparative study of porous media models in a differentially heated square cavity using a FEM, 3A1266
- Analysis of laminar natural convection from a discrete isothermal flush heater mounted on the side wall of a partially open rectangular enclosure, 7A1210
MISRA, JC: Study of the thermoelastic interactions in an elastic half space subjected to a ramp-type heating: A state-space approach, 10A1330
MISRA, MK: Ash deposition in a wood-fired gas turbine, 5A1029
MISRA, P: Shaping time response by state feedback in minimum-phase systems, 1T373
MISSAOUI, J: Free and forced vibration of a cylindrical shell with a floor partition, 7A171
MISTAKIDIS, ES: Comparison of two methods for the solution of a class of nonconvex energy problems using convex minimization algorithms, 2A369
- Numerical treatment of hemivariational inequalities in mechanics: Two methods based on the solution of convex subproblems, 5A403
- Softening behavior of continuous thin-walled steel beams: Two numerical methods, 6A467
MISTREE, F: Integrating robustness into multiobjective space vehicle design process, 3T315
- Experimental satellite trajectory analysis using decision-based robust design, 3A348
MISTRIKOVA, Z: Variational modifications of Zemockin contact problems solution method, 9A122
MISUMI, T: Enhancement technique for natural-convection heat transfer from vertical finned plates, 2A1094
MISYURIN, SY: Equilibrium positions of mechanisms and methods for their determination, 12A977
MITA, A: Vibration control of tall buildings using mega sub-configuration, 2A739
MITACHI, T: Pre-failure Deformation of Geomaterials - Proc of Int Symp, Sapporo, Japan, Sept 1994, 12N29
- Undrained strength of highly organic soil and its suction measured before shear test (Japanese), 4A600
MITAL, R: Measurements of radiative properties of cellular ceramics at high temperatures, 6A1133
MITAL, SK: Computational simulation of matrix microslip bands in SiC-Ti-15 composite, 10A820
MITCHELL, D: Computed effects of host transfer on the transonic flow over an aerofoil, 4A958
- General shear design method, 7A953
- Analysis of bond stress distributions in pullout specimens, 8A739
MITCHELL, GF: Experiments in acoustic levitation: Surface tension measurements of deformed droplets, 3A935
MITCHELL, JK: Pulse transmission system for measuring wave propagation in soils, 9A279
MITCHELL, LD: Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, 7A880
MITCHELL, M: Gas turbine acoustic enclosure design by the statistical energy analysis method, 5A1033
MITCHELL, SE: Simultaneous in-process inspection of surface form and roughness of machined sculptured surfaces, 5A572

MITCHELL, TJ: Kinetic model for formation of aromatics in the high temperature chlorination of methane, 5A1233
MITCHELL, WJ: Tensile creep and creep rupture of continuous strand mat polypropylene composites, 4A450
MITCHELTREE, RA: Mars Pathfinder six-dof entry analysis, 5A239
- Wake flow about the Mars Pathfinder entry vehicle, 5A721
MITENKOV, FM: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
MITKO, M: Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, 9A563
MITO, K: Centrifuge modeling of shield tunnel construction processes (Japanese), 7A711
MITO, M: Development of measurement system on angular profile of the polygon mirror surface (Japanese), 11A705
MITRA, K: Experimental evidence of hyperbolic heat conduction in processed meat, 3A1104
MITRA, NK: Conjugate heat transfer of a finned tube - Part B: Heat transfer augmentation and avoidance of heat transfer reversal by longitudinal vortex generators, 1A1174
- Conjugate heat transfer of a finned tube - Part A: Heat transfer behavior and occurrence of heat transfer reversal, 1A1173
- Experimental thermal and fluid science, 4A1240
- Influence of heat conduction on determination of heat transfer coefficient by liquid crystal thermography, 8A1119
- Heat transfer enhancement by longitudinal vortices in a fin-tube heat exchanger element with flat tubes, 8T1199
MITRA, R: Effect of diameter-to-thickness ratio of crystal disks on the vibrational characteristics of ultrasonic ceramic transducers, 12A180
MITRI, HS: Nonlinear fault behavior near underground excavations: A BE approach, 8A1371
MITROPOLSKY, YA: Problems in the development of nonlinear mechanics theory and applications, 12T119
MITROVIC, J: Heat transfer by plate spacers in plate-fin heat exchangers, 3A1152
- Remarks upon the contribution of J Stefan to the understanding of diffusion processes, 3T1099
- Mean fluid temperatures in direct contact heat exchangers without phase change, 11A1217
MITROVIC, M: Nonlinear constitutive relations for magnetostrictive materials with applications to 1D problems, 3A5
- Effect of fatigue damage in woven composites on thermomechanical properties and residual compressive strength, 8A639
MITSOULIS, E: Numerical simulation of viscoelastic flow around a cylinder using an integral constitutive equation, 4A882
- Non-isothermal viscoelastic simulations of extrusion through dies and prediction of the bending phenomenon, 8A404
MITSUDERA, H: Mechanics of the Tollmien-Schlichting wave, 10A1136
MITSUGI, J: Direct strain measure for large-deformation analyses of beam structures, 3A522
MITSUI, K: Development of an optical measuring method for spindle rotation accuracy - Measuring principle and consideration on sensitivity (Japanese), 3A728
MITSUI, S: Information model of cutting tools for machining center in tool assembly: Representing models of parts structure, assembly, nominal size, and real size (Japanese), 12T468
MITSUI, Y: Study on the size effect of tensile characteristics of carbon fiber-reinforced cement composites, 7A556
MITSUMORI, T: Experimental study on seismic responses of piping systems with friction - Part I: Large-scale shaking table vibration test, 5A1320
MITSUTA, S: Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, 6A119
MITSUTAKE, Y: Enhancement of heat transfer due to bubbles passing through a narrow vertical rectangular channel: Change in heat transfer along flow, 6A1148
- Critical heat flux in forced convective subcooled boiling with multiple impinging jets, 8T1136
MITSUYA, Y: Transient response solution applying ADI scheme to Boltzmann flow-modified Reynolds equation averaged with respect to surface roughness, 5T1086
MITTAL, R: Direct numerical simulation of flow past elliptic cylinders, 9T1078
MITTAL, RK: Influence of fiber content and impactor parameters on transverse impact response of uniaxially reinforced composite plates, 4A498
MITTET, R: High-order, finite-difference modeling of multipole logging in formations with anisotropic attenuation and elasticity, 6A1249
MITTLEMAN, J: Elastic wave scattering by shelled spherical scatterers in a focused field, 10A263
MITU, N: Dynamic analysis of tapered roller bearing under fully flooded conditions - Part 1: Theoretical formulation, 3A75
- Dynamic analysis of tapered roller bearings under fully flooded conditions - Part 2: Results, 3A76
MITYUSHEV, V: First order approximation of effective thermal conductivity for a nonlinear composite, 9A1287
MITYUSHEV, VV: Generalized method of Schwarz and addition theorems in mechanics of materials containing cavities, 9A1292
MIURA, F: Behavior of high ductility aseismic joint spliced piles subjected to liquefaction-induced large ground displacements (Japanese), 5T554
- Simulation of emergency evacuation behavior during disaster by using distinct element method (Japanese), 11A1475
- Simulation of evacuation behavior in a disaster and its interaction with guide's instructions (Japanese), 11A1476
- Simulation of stick-slip shear failure of rock masses by a nonlinear FEM (Japanese), 11A577
MIURA, H: Approximation of frequency responses based on Larsson's method, 2A149
- Water quality control system considering storm runoff and its application (Japanese), 3T1398
- Evaluation of an effect of a porous asphalt pavement to add an infiltration pipe on runoff control (Japanese), 3A1255
- Enstrophy generation in a shock-dominated turbulence, 8A209
- Modification to the sensitivity analysis algorithm for known target displacements, 8A716
- Stress analysis of transistor structures considering the internal stress of thin films, 10A580
MIURA, J: Selective refinement of 3D scene description by attentive observation for mobile robot, 11T377
MIURA, K: Motion control of free-floating variable geometry truss - Part 1: Kinematics, 12A386
- Surface physics and friction, 12A938
- Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, 12A387
MIURA, N: Evaluation of the effect of surface coatings through the diffusion process of chloride ion in concrete (Japanese), 2A752
- Study on durability of surface coatings performed on an existing concrete structure (Japanese), 2A765
- Negative skin friction on rigid and deformable piles, 8A539
- Mechanics of kinking and buckling of plastic board drains, 8A506
- Deformation analysis of soft ground reinforced by columnar inclusions, 11A571
MIURA, S: Pre-failure Deformation of Geomaterials - Proc of Int Symp, Sapporo, Japan. Sept 1994, 12N29
MIYANO, Y: Temperature dependence of fluxural static strength of pitch-PAN hybrid unidirectional CFRP, 7A557
MIWA, K: Study of ignition process of diesel sprays, 1T1313
MIWA, M: Branching problem of crack and debonding at an end of stiffened boundary for thin plate bending (Japanese), 5A502
MIWA, Y: Rhythmic motions of plants: Measuring rotational movements of the root and cell turgor pressures (Japanese), 12T1479
MIYA, K: Nondestructive Testing of Materials - Studies in Applied Electromagnetics and Mechanics, Vol 8, 11N34
- Magnetoelastic bending and snapping of ferromagnetic plates in oblique magnetic fields, 4A589
- Accurate probe-response calculation in eddy current NDE by FEM, 9A43
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
MIYA, T: Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), 12A554
MIYACHI, S: Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), 10A914
MIYAGAWA, H: Crack growth arresting property of a hole and Brinell-type dimple, 8A567
MIYAGUCHI, H: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741
MIYAHARA, S: Numerical calculation of view factors for an axially symmetrical geometry, 5A1176
MIYAKAWA, Y: Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, 5A811
MIYAKE, K: Technology of sensor and mechatronics (Japanese), 1T419
MIYAKE, S: Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, 5T789
- Dust generation from rolling-sliding elements of combined stainless steel and silicon nitride, 5T799
- Tribology in clean environment - Part 1: Dust generation properties of silicon carbide ceramics, 6T806
- Tribology of thin films, 7A1000
MIYAKE, Y: Direct numerical simulation of a turbulent flow in a channel having periodic pressure gradient, 5A939
- Computational study of contact mechanics between magnetic recording heads and thin-film disks, 8A792
MIYAMOTO, I: Fabrication of 3D fine objects with focused energy beams (Japanese), 4T655
- Focused ion beam machining of diamond chips and probes, 9T729
MIYAMOTO, K: Assessment and data processing on surface roughness instruments (Japanese), 2T713
MIYAMOTO, M: Optimization of diamond grain size of polycrystalline diamond for cutting Al-16%Si alloy (Japanese), 2A542
- Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expanded bed surface of a gas fluidized bed: Conditional sampling statistical analysis, 2A1220
MIYAMOTO, T: Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, 5T789
MIYAMOTO, Y: Comparative study on the h-convergence of 4-node and 8-node quadrilateral elements, 9A50
- Estimation of creep buckling deformation under external pressure at elevated temperature, 10A638
MIYANO, Y: Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, 1A558
- Influence of stress ratio on fatigue behavior in the transverse direction of unidirectional CFRPS, 2A579
- Evaluation of physical aging on creep deformation of epoxy resin (Japanese), 6A624
- Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), 12A554
MIYARA, A: Performance analysis of an OTEC plant and a desalination plant using an integrated hybrid cycle, 11A1431
MIYASAKA, A: Depolyment mechanism for a large reflector: Thermal-design verification using flight data, 5A743
- Heat-transport characteristics of capillary looped pipes, 7A1267
MIYASAKA, T: Behavior of high ductility aseismic joint spliced piles subjected to liquefaction-induced large ground displacements (Japanese), 5T554
MIYASHIRO, H: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877
MIYASHITA, N: Current state of processing and problems of chemical-mechanical polishing on the semiconductor device manufacturing (Japanese), 11T614
MIYASHITA, S: Validity of classification systems of semirigid connections, 4A872
MIYATA, ES: Static analyses of the triangular running skyline system: A 3D movable logging cable system, 12A582
MIYATA, H: Thermal stress and strength reliability of heater for cathode ray tube (Japanese), 7A1284
MIYATA, K: Development of novel material shield-cuttable tunnel-wall system (Japanese), 4T821
MIYATA, M: Flow induced by temperature gradient along wall in rarefied gas container, 11A927
MIYATA, S: Stochastic response evaluation using the digital filter supported by method for a double-wall-type sound insulation system excited by the actual music sound, 1A342
MIYATA, T: Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), 5A727
- Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), 10A731
- Two dimensional unsteady aerodynamic force measurement by combination of complex modal information under wind action (Japanese), 11A1037
MIYAUCHI, T: Inflow and outflow boundary conditions for direct numerical simulations, 11A907
MIYAWAKI, K: Considerations by wavelet analysis for earthquake waves (Japanese), 5A1330
MIYAZAKI, K: Drag on a sphere in slow shear flow, 1A981
MIYAZAKI, M: Development of photo-sensing bulge ductility tester, 2A1307
MIYAZAKI, N: Solid particle erosion behavior of FRMs (Japanese), 2A428
- Effect of interfacial strength on erosion behavior of FRPs, 8A640
- Constraint effect of crack due to clad material (Japanese), 9A845
MIYAZAKI, T: Effect of axial force on holographic measurement of complex elastic modulus, 1A848
- Stability of a stretching capillary jet with parabolic axial velocity, 2A982
- Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), 4T822
- Local stability of 2D steady irrotational solenoidal flows with closed streamlines, 7A1122
MIYAZAKI, Y: Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, 7A1040
MIYAZAWA, K: Optimization of the discrete system using an importance sampling technique (Japanese), 1A877
MIYOSHI, S: Variation of stress intensity factor and crack opening displacement of semi-elliptical surface crack, 10A778
MIYOSHI, T: Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, 1T862
MIZARACHI, D: Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, 6A1287
MIZERA, E: Interfacial reactions between thin films of zinc and (100) InP, 6A821
MIZIAN, E: Investigation of structural properties of used formwork stringers, 7A867
MIZOE, Y: Simplified estimation procedure of degree of imperfection for composite girder with partial interaction (Japanese), 11A762
MIZUKAMI, J: Horizontal coefficient of consolidation c_h (Japanese), 10A652
MIZUKAMI, K: General mathematical modeling for heat and mass transfer in unsaturated porous media: An application to free evaporative cooling, 6A1111
MIZUKAMI, M: Study of simple assembly method for compact optical modules used in telecommunications systems (Japanese), 2A330
MIZUKI, A: Simplified dynamic analysis of slender tapered thin-walled towers with additional mass and rigidity, 8A109
MIZUMOTO, H: Direct contour mapping system with pattern recognizing faculties (Japanese), 5A341
- Comparison of positioning resolution of feed drive devices for ultra-precision machine tools (Japanese), 9A704
- Lapping system for ultra-precision bearing balls (Japanese), 12A702
MIZUMOTO, I: Simplified adaptive model output following control for plants with unmodeled dynamics, 11T300
MIZUMURA, K: Runoff prediction by simple tank model using recession curves, 3T1343
MIZUNO, E: Cyclic behavior of structural steels - I: Experiments, 3A1319
- Cyclic behavior of structural steels - II: Theory, 3A1320
- Cyclic elasto-plastic finite displacement analysis of plates with modified two-surface model (Japanese), 5A500
- Inelastic large deflection analysis of structural steel members under cyclic loading, 12A1407
MIZUNO, K: Study on the characterization of silica fume and the evaluation of properties of concrete containing silica fume (Japanese), 2T414
MIZUNO, M: Development of a flexure-hinged translation mechanism driven by two piezoelectric stacks, 6A358
MIZUNO, R: Influence of the stiffness of the measurement system on the elastic adhesional contact, 3A872
MIZUNO, S: Light attenuation in a semitransparent foam sheet: Thickness measurement for industrial use, 7A879
- Real-time optical monitoring system for dye color and concentration, 10A858
MIZUNUMA, M: Application of a laser-beam sensor to pipe inspection (Japanese), 9T871
MIZUSAWA, T: Application of the spline prism method to analyse vibration of thick circular cylindrical panels, 6A152
MIZUSHIMA, J: Structural stability of the pitchfork bifurcation of thermal convection in a rectangular cavity, 6A1089
MIZUTA, Y: Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), 7T779
MIZUTANI, K: Active vibration control for flexible structures using a wave-absorbing control method, 12A137
MIZUTANI, T: Residual strain energy in composites containing particles, 7A548
MIZUTANI, Y: Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), 4A1233
MIZUYAMA, H: Inspection and repair strategy in automated assembly systems (Japanese), 1A444
MIZUYAMA, T: Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), 4T619
MKRTCHYAN, VS: Spectral model of the forming of a surface due to turning and the diagnostics of machine tool defects, 12T691
MLADENOVA, CD: Approach to automatic generation of dynamic equations of elastic joint manipulators in symbolic language, 3A398
- Application of the group and geometrical properties of E(3) to the problems of rigid-body systems, 3A82
MLADIN, EC: Heat transfer transients in stagnation flows due to changes in flow velocity, 6T1094
MLEJNEK, H-P: Computational prediction and redesign for viscoelastically damped structures, 1A483
MLYNARSKI, T: Position analysis of planar linkages using the method of modification of kinematic units, 12A969
MO, GUOBIAO: Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, 11A933

MO, JD: Numerical analysis of strongly nonlinear baroclinic instability, 2A976
MO, JJ: Ballistic impact response for two-step braided 3D textile composites, 7A251
MO, JPT: Hybrid fuzzy logic algorithm for position control of pneumatic actuator with 3/2-way solenoid valves, 11A345
MO, YL: Effect of concrete strengths on dynamic response of framed shearwalls, 2A750
- Dynamic analysis of concrete box tubes subjected to torsion, 5A148
- Dynamic response of box tubes to combined shear and torsion, 6A1279
- Cyclic load tests on prestressed concrete model frames, 8A755
- Effect of prestress losses on the seismic response of prestressed concrete frames, 10A897
MOAKHER, M: Stability of cylindrical bodies in the theory of surface diffusion, 6A1181
MOAL, A: Finite element simulation of the inertia welding of two similar parts, 1A954
MOALLEMI, MK: Experimental evidence of hyperbolic heat conduction in processed meat, 3A1104
- Numerical algorithm using multizone adaptive grid generation for multiphase transport processes with moving and free boundaries, 12A1224
MOAN, M: Influence of a nonionic surfactant on the rheology of a hydrophobically associating water soluble polymer, 11A854
MOAN, T: Experimental and numerical study of composite T-joints, 8A468
- Stochastic and deterministic combinations of still water and wave bending moments in ships, 11A789
MOATIMID, GM: Influence of an oscillatory rotation on the stability of miscible cylindrical magnetic fluids, 4A1102
MOCCIO, CA: Measurement of the transfer function between bending strain and a transient load using a scanning laser vibrometer, 7A191
MOCHALOVA, NA: Calculations of thermodynamic processes in fuel-feed systems, 11A1296
MOCHIZUKI, H: Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), 10A914
MOCHIZUKI, O: Experiments on response of impinging-jet edge tone to edge misalignment and spanwise coherence of the jet, 5A260
MOCHIZUKI, S: Experimental investigation of flow in an annular-conical passage, 5A944
- Flow in an annular-conical passage, 7A1100
MOCHIZUKI, T: Open-closed loop control of seismic response of structures with active mass driver system (Japanese), 5A1324
MOCHIZUKI, Y: Automated structural design based on knowledge engineering and fuzzy control, 9A953
MOCHNACKI, B: Application of the BEM for numerical modeling of continuous casting, 12A696
MODEST, MF: Three-dimensional, transient model for laser machining of ablating-decomposing materials, 4A1203
MODI , VJ: Control of Tethered Satellite Systems using thruster and offset strategies, 11A321
MODI, V: Design of plane diffusers in turbulent flow, 8A991
MODI, VJ: Control of wind-induced instabilities through application of nutation dampers: A brief overview, 4A214
- General formulation for N-body tethered satellite system dynamics, 6A80
MOE, G: Hydrodynamic coefficients for calculation of hydrodynamic loads on offshore truss structures, 11A223
MOEN, CD: Primitive variable implicit approach for compressible chemical vapor deposition, 11T965
MOFFAT, A: Hydraulic Structures, Second Edition, 10N20
MOFFAT, DG: Response and cyclic strain accumulation of pressurized piping elbows under dynamic in-plane bending, 8A432
- Response and cyclic strain accumulation of pressurized piping elbows under dynamic out-of-plane bending, 8A433
- Onset of ratcheting in pressurized piping elbows subjected to in-plane bending moments, 10A547
MOFFATT, HK: Structure of the vortices in freely-decaying 2D turbulence, 11A1000
MOFFATT, J: Development of an on-board fatigue processor for helicopters, 12A717
MOFID, M: Discrete element response of beams with traveling mass, 12A587
MOFTAKHAR, A: Calculation of elastoplastic strains and stresses in notches under multiaxial loading, 1A788
MOGHADAM CHARKARI, N: Sensory selection in vehicle detection and avoidance, 11T333
MOGHADDAM, HA: Characteristics of an off-center bracing system, 5A729
MOHAJERJASBI, S: Structure and properties of 3D braided composites including axial yarns, 6T432
MOHAMAD, AA: Local analytical discrete ordinate method for the solution of the radiative transfer equation, 8A1180
MOHAMED NABI, S: Comparison of beam and plate theories for free vibrations of metal matrix composite pre-twisted blades, 7A183
MOHAMED, A: Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, 8A1054
MOHAMED, AA: Electrohydrodynamic Kelvin-Helmholtz instability for a velocity stratified fluid, 3A962
MOHAMED, AEMA: Nonlinear electrohydrodynamic Kelvin-Helmholtz instability with mass and heat transfer: Effect of a perpendicular electric field, 6A1006
MOHAMED, AM: Linearized mechanical model to evaluate reliability of offshore structures, 3A815
MOHAMED, EA: Analysis of laminated cylindrical shells with pre-loads, 2A472
MOHAMMAD, DRA: Role of Rayleigh damping, 1A122
MOHAMMAD, FA: Design charts for reinforced concrete circular columns in accordance with Eurocode 2, 7A950
MOHAMMADEIN, SA: Evaluation of the relaxation time of heat and mass exchange in the liquid-vapor bubble flow, 5A1161
MOHAMMADI, M: Dynamic 3D soil-railway track interaction by BEM-FEM, 1A1387
MOHAMMADI, Y: Compression creep of pultruded E-glass-reinforced-plastic angles, 3A513
MOHAMMED, E: Cutting temperature of ceramic tools in high speed machining of difficult-to-cut materials, 8T564
MOHAMMED, H: Simplified analysis of long-span soil-metal structures, 2A463
MOHAMMED, RA: Determination of fatigue crack propagation rates under mixed mode (I + III) loading, 12A708
MOHAMMEDIEN, AA: Unsteady natural convection from a heated vertical plate in micropolar fluid, 1A1185
- Mixed convection in an axisymmetric stagnation flow of micropolar fluid on a vertical cylinder, 8A1095
MOHAN, P: Fast algorithm for the static shape control of flexible structures, 8A296
- Static, free vibration and thermal analysis of composite plates and shells using a flat triangular shell element, 10A178
MOHAN, R: Cutting force dynamics as a tool for surface profile monitoring in AWJ, 5A570
- Improving milling performance with high pressure waterjet assisted cooling-lubrication, 5A571
MOHAN, RV: Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), 4A1213
MOHANA RAO, KR: Acoustic gyrotropic tensor in quasicrystals, 9A367
MOHANDAS, T: Ballistic performance of high-strength low-alloy steel weldments, 10A276
MOHANTY, AK: Natural convection during melting and solidification of pure metals in a cavity, 6A1085
- Buoyancy induced flow and heat transfer through a vertical annulus, 10A1255
MOHANTY, RK: High accuracy difference schemes for the system of two space nonlinear parabolic differential equations with mixed derivatives and variable coefficients, 12A44
MOHAPATRA, PK: Computation of a dam-break flood wave in channel transitions, 8A872
MOHR, G: Integration of non-Gaussian fields, 9A116
- Partial summations of stationary sequences of non-Gaussian random variables, 9A119
MOHR, JW: Combustion measurements from an impinging radial jet reattachment flame, 12A1324
MOHR, M: Efficient multiple charging of diesel particles by photoemission, 7A1354
- Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
MOHR, R: Relative 3D reconstruction using multiple uncalibrated images, 4A773
MOHRBACHER, H: Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
- Laboratory testing of displacement and load induced fretting, 4T844
MOHRI, K: Micro magnetic sensors (Japanese), 9T441
MOHRI, M: Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, 1A558
- Temperature dependence of fluxural static strength of pitch-PAN hybrid unidirectional CFRP, 7A557
MOIN, K: Exact prescribed displacement field solutions in Mohr Coulomb elastoplasticity, 9A519
MOIN, P: Shear-free turbulent boundary layers - Part 2: New concepts for Reynolds stress transport equation modeling of inhomogeneous flows, 1A1080
- Shear-free turbulent boundary layers - Part 1: Physical insights into near-wall turbulence, 1A1079
- Interaction of an isotropic field of acoustic waves with a shock wave, 4A282
- Calculation of the radiated sound field using an open Kirchhoff surface, 10A373
- Efficient method for temporal integration of the Navier-Stokes equations in confined axisymmetric geometries, 11A904
- Large-eddy simulation of turbulent confined coannular jets, 11A990
MOIR, GB: Investigation into objective measures of gear-shift quality, 4A852
MOISAN, A: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766
MOISEEV, AV: Phase portraits of the Lorenz system for large Rayleigh numbers, 7A112
MOISEYEV, AN: Conception and choice of project parameters of transport wing-in-ground effect craft, 8A1007
MOISIDIS, NT: Enhancement of pressurizer safety valve operability by seating design improvement, 5A840
- Qualification of diesel generator exhaust carbon steel piping to intermittent elevated temperatures, 7A995
- Pump and valve fastener serviceability in PWR nuclear facilities, 7A1391
MOITA, GF: Enhanced lower-order element formulations for large strains, 6A32
MOJICA, JF: Model for thermal fatique in an aluminium casting alloy, 1A759
MOK, GC: Seismic, Shock, and Vibration Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N15
MOK, WK: Simulation of forced-ventilation fires, 1A1341
MOKHA, AS: Seismic isolation retrofit of large historic building, 8A1344
MOKHOV, VF: Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, 10T1195
MOKRIK, RI: Nonstationary temperature field and thermoelastic state of bilayered hollow round cylinder under friction heating, 7A1280
MOKRY, M: Evaluation of blockage interference on propellers in a perforated-wall wind tunnel, 2A1049
MOLAGHASEMI, HR: Free vibration on stiffened sector plates, 8A115
MOLAS, GL: Attenuation of earthquake ground motion in Japan including deep focus events, 3A1309
MOLDENAERS, P: Origin of nonlinearities in the Bagley plots of thermotropic copolyesters, 8A870
- Transient rheological behavior of poly-para-phenylenetherephthalamide (PpPTA) in sulphuric acid, 9A1084
- Relationship between rheology and morphology of model blends in steady shear flow, 12A1010
MOLDOVEAN, G: Generalized approach for the kinematic analysis of planar mechanisms, 2A824
MOLENAAR, AAA: Crack growth mechanism in asphaltic mixes, 7A774
MOLENAAR, J: Effect of capillary forces on immiscible two-phase flow in heterogeneous porous media, 4A1304
MOLIERE, MM: Benefits of MS 6001B gas turbine in cogeneration: The UEM power plant case, 10A1391
MOLIN, B: Third-harmonic wave diffraction by a vertical cylinder, 4A274
- Wave and current forces on a vertical cylinder free to surge and sway, 5A223
MOLIN, N-E: Influence of enclosed air on vibration modes of a shell structure, 4A176
MOLINA, GJ: Identification of residual impact properties of materials by Acousto-ultrasonics: A Pattern Recognition approach, 3A735
- Acousto-ultrasonics approach to the characterization of impact properties of a class of engineering materials, 10A284
MOLINARES, N: Effectiveness of block iterative schemes in computing the seismic response of buildings with nonlinear base isolation, 3A1336
MOLINARI, A: Elastic-plastic effects during cyclic loading as predicted by the Taylor-Lin model of polycrystal elasto-viscoplasticity, 12A522
- Forming limit predictions with the perturbation method using stress potential functions of polycrystal viscoplasticity, 12A670
MOLINAS, A: Sediment transport in the Yellow River, 10T1061
MOLINEAUX, B: Direct luminous efficacy and atmospheric turbidity: Improving model performance, 1A1425
MOLKI, M: Artificial roughness effects on turbulent transfer coefficients in the entrance region of a circular tube, 11A1105
MOLKOV, JI: Kink-dynamics of the perturbed sine-Gordon equation, 10A107
MOLKOV, V: Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezoelectric material, 11A558
MOLLENDORF, JC: Thermal stratification effects near a vertical ice slab in cold water, 1T1184
MOLLER, CV: Multiple cracks in transformation toughened ceramics, 4A702
- Crack front trapping in transformation-toughened ceramics, 4A723
MOLLER, P: Advancing front mesh generation in 3D, 4A55
MOLLER, S-I: Large eddy simulation of reacting flows applied to bluff body stabilized flames, 4A1080
MOLLESON, GV: Gas-thermodynamics of a two-phase jet impinging normally on a flat surface, 10A1162
MOLLINGER, AM: Measurement of the lift force on a particle fixed to the wall in the viscous sublayer of a fully-developed turbulent boundary layer, 12A1082
MOLOKOV, S: Liquid-metal flow in a system of electrically coupled U-bends in a strong uniform magnetic field, 2A998
MOLOTILIN, YA: Indirect determination of heat flux to a lander heat protection system, 1A1276
MOLTON, P: Experimental study of 3D separation on a large-scale model, 4A944
MOLYNEAUX, TCK: Instability of cylindrical panels under combined static and dynamic loads, 1A657
- Dynamic constitutive equations and behavior of brass at high strain rates, 2A397
- Radar assessment of structural concrete using neural networks, 4A784
- Dynamic elastic instability of long circular cylindrical shells under pure bending, 5A536
MOLZ, EB: Leaky plate modes: Radiation into a solid medium, 9A266
MOMBER, AW: Statistical character of the failure of multiphase materials due to high pressure water jet impingement, 1A767
- Quantification of energy absorption capability in abrasive water jet machining, 4A641
MOMMERSTEEG, TJA: Characterization of the mechanical behavior of human knee ligaments: A numerical-experimental approach, 6A1308
MOMOKI, S: Fully-developed laminar fluid flow and heat transfer in an eccentric annulus with an axially moving core, 8T1071
MOMOTA, H: Application of multivariate autoregressive model to groundwater behavior (Japanese), 7A1361
MONACO, S: Link between input-output stability and Lyapunov stability, 11T264
MONAGHAN, J: Forging sequence design using an expert system, 7A722
- Upper-bound analysis of a forging-extrusion process, 7A724
MONAHAN, BC: Melt rheology of zinc alkali phosphate glasses, 8A868
MONAHAN, CC: Early Fatigue Crack Growth at Welds, 3R17
MONAHEMI, MM: Control of wing rock motion using adaptive feedback linearization, 12A383
MONCEF, A: Uniaxial tensile response of microfiber reinforced cement composites, 4A489
MONCH, L: Numerical solution of the direct scattering problem for an open sound-hard arc, 12A307
- Newton method for solving the inverse scattering problem for a sound-hard obstacle, 12A286
MONDE, M: Enhancement of heat transfer due to bubbles passing through a narrow vertical rectangular channel: Change in heat transfer along flow, 6A1148
- Critical heat flux in forced convective subcooled boiling with multiple impinging jets, 8T1136
- Analytical study of critical heat flux in two-phase thermosyphon: Relationship between maximum falling liquid rate and critical heat flux, 11A1170
MONDRUS, VL: Reflection and transmission of vertically polarized transverse seismic waves at the interface between two randomly nonhomogeneous elastic media, 7A240
MONGENIE, P: Impact on planar kinematic chain of rigid bodies: Application to movements of anthropomorphic dummy in a crash, 10A82
MONGEY, B: Martin-Hou, Peng-Robinson and Redlich-Kwong-Soave equations of state for HFC 125, 6A1061
- From pure fluids to zeotropic and azeotropic mixtures: The effects of refrigerant-oil solubility on system performance, 6A1153
- R407C as an alternative to R22 in refrigeration systems, 8A1212
- Development of engineering design data for new refrigerants - I: Pure fluids and azeotropic mixtures, 8A1296
MONGIOVI, MS: Dissipative terms of thermal nature in the theory of an ideal monoatomic superfluid, 8A8
MONGKOLWONGROJN, M: Static characteristics of high-speed slider bearings lubricated with non-Newtonian fluids: In the case of infinitely long bearings, 6A1047
MONISMITH, SG: Entrainment in a shear-free turbulent mixing layer, 9A1189
MONSON, DJ: Skin-friction measurements and calculations on a lifting airfoil, 7A1159
MONTAGUE, G: Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, 5A697
MONTAGUE, GT: Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, 5A157
MONTAGUE, P: Large reinforced concrete cylinders under external pressure, 11A757
- Large steel-concrete composite cylinders under external pressure, 11A758
MONTAKHAB, MR: Automated fault tree analysis for hydraulic systems, 12A421
MONTEIRO BAPTISTA, AP: Friction and wear of TiN coatings Contribution of CETRIB-INEGI to the TWAI-1993 VAMAS round-robin, 10A963

MONTEIRO MARQUES, MDP: Dissipative graph solutions for a 2 dof quasistatic frictional contact problem, 2A386
MONTEIRO, TCN: Hydrodynamic model of unsteady tidal flow in coastal waters based on an inverse method, 9A1056
MONTELAGHI, F: Weak-weak formulation for large displacements beam statics: A finite volumes approximation, 7A603
MONTENEGRO, HL: Application of a weight function based method to assess partially closed cracks, 12A771
MONTENEGRO, L: Generation of nearly isotropic turbulence using two oscillating grids, 9A1181
MONTES, F: Influence of temperature on the slip velocity of semidilute xanthan gum solutions, 4A881
MONTES, L: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518
MONTEVECCHI, FM: Fluid-structure interaction problems in bio-fluid mechanics: A numerical study of the motion of an isolated particle freely suspended in channel flow, 4A288
- Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, 6A1349
MONTGOMERY, DE: Acoustic radiation prediction of a compressor housing from 3D experimental spatial dynamics modeling, 9A340
MONTGOMERY, M: Effect of grid irregularity on truncation error for discretizations of Laplace's equation, 2A36
- Solution of steady inviscid subsonic flow by a locally analytic method, 6A919
MONTIJANO, JI: Iterative schemes for three-stage implicit Runge-Kutta methods, 2A38
- Global error estimation with adaptive explicit Runge-Kutta methods, 6A34
MONTMITONNET, P: Introduction of anisotropy in viscoplastic 2D and 3D FE simulations of hot forging, 3A599
MOODY, FJ: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Inst Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
MOOG, CH: Controllability and optimization in aeroassisted orbital transfer, 1T390
MOOK, DT: Nonlinear Oscillations - Wiley Classics Library Series, 7R5
- Nonlinear response of a taut string to longitudinal and transverse end excitation, 1A145
- Selected and extended papers from the 4th Pan-American Congress of Applied Mechanics, January, 1995, Buenos Aires, Argentina, 2A4
- Higher-order sensitivity to imperfections in bifurcation buckling analysis, 4A567
MOON, BONGKI: Parallel Monte Carlo simulation of 3D flow over a flat plate, 1A1017
MOON, FC: Multifractals in elastic tube vibrations due to internal flow, 3T214
- Transition from soliton to chaotic motion following sudden excitation of a nonlinear structure, 12A126
MOON, HJ: Effective elastic moduli in fiber reinforced composite with circular-arc shaped interfacial cracks, 1A813
MOON, TJ: Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part II: Dependent scattering effect, 3A1142
- Thermal analysis of in-situ curing for thermoset, hoop-wound structures using infared heating - Part I: Predictions assuming independent scattering, 3A1141
- Growth-of-waviness in fiber-reinforced polymer composites: Viscoelastic bifurcation and imperfection sensitivity, 12A544
MOON, YH: Use of multiple flow fields for continuous solutions from upper-bound analysis, 3A604
MOON, YS: Bounds in algebraic Riccati and Lyapunov equations: A survey and some new results, 12T346
MOONS, T: Symmetry from shape and shape from symmetry, 2A320
MOOR, C: Testing of energy dissipating cladding connections, 7A1382
MOORE , JJ: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164
MOORE JR, JE: Effects of time-varying curvature on velocity profiles in a model of the coronary arteries, 8A1433
MOORE, AJ: Phase demodulation in the space domain without a fringe carrier, 3A731
- Phase-stepped ESPI and moire interferometry for measuring stress-intensity factor and J integral, 5A672
MOORE, AW: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252
MOORE, CJ: Stresses in a spinless drive for aero-engines, 11A129
MOORE, DB: Steel frames in fire: Analysis, 2A786
MOORE, DW: Inviscid separated flow over a non-slender delta wing, 6A1014
MOORE, FG: Aeroprediction code for angles of attack above 30 degrees, 12A1172
MOORE, ID: Three-dimensional dynamic response of lined tunnels due to incident seismic waves, 9A1392
MOORE, JB: Optimization and Dynamical Systems, 3R12
- Finite-dimensional optimal controllers for nonlinear plants, 3A322
- Gradient algorithms for principal component analysis, 11A69
- Gradient flow approach to decentralized output feedback optimal control, 11A278
MOORE, KL: Regional pole placement method for discrete-time systems, 12T379
MOORE, R: Physico-chemical effects on the behavior of a coastal mudslide, 12A655
MOORHOUSE, AT: Towards a practical characterization for structure-borne sound sources based on mobility techniques, 2T224
- Structure-borne sound power emmission from resiliently mounted fans: Case studies and diagnosis, 4A311
MOORTHY, RIK: Chaotic response of a composite plate, 1A161
- Diagnosis of the bearing failure in a pilger mill, 10A1008
MOORTHY, S: Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell FE model, 12A529
MOOSBRUGGER, JC: Continuum slip viscoplasticity with the Haasen constitutive model: Application to CdTe single crystal inelasticity, 4A462
- Interlaminar shear fatigue damage evolution of 2D carbon-carbon composites, 11A633
MOOSMULLER, H: Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers, 7A345
MORAD, NA: Specific heat capacities of pure triglycerides by heat-flux differential scanning calorimetry, 6A1063
MORADI, M: Application of BEM to 3D problems of coupled thermoelasticity, 9A1290
MORAES JR, P: Code validation for high-speed flow simulation over satellite launch vehicle, 7A1083
MORALES, J: Measurements of intrinsic and scattering seismic attenuation in the crust, 3A1310
MORALES, JJ: Towards a theory of the surface conductance coefficient in solids, 1T1257
MORAN, B: Crack spacing in brittle films on dissimilar planar and axisymmetric elastic substrates, 2A659
- Homogeneous nucleation of a solid-solid dilatational phase transformation, 8A508
- Material instabilities in rate-dependent solids, 10A550
- Simplified direct method for cyclic strain calculation: Repeated rolling-sliding contact on a case-hardened half plane, 10A983
MORAN, M: Thermal Design and Optimization, 5N30
MORAN, MJ: Fundamentals of Engineering Thermodynamics, Third Edition, 4R31
MORAND, HJ-P: Fluid Structure Interaction: Applied Numerical Methods, 1R5
MORANDI, AC: Frame tripping in ring stiffened externally pressurized cylinders, 7A632
MORANO, E: Steady relaxation methods for unstructured multigrid Euler and Navier-Stokes solutions, 9A1094
MORANTE, JR: Dynamic simulations of micro-pumps, 10T455
MORASSI, A: Torsion of thin tubes: A justification of some classical results, 2A462
MORAUX, D: Considerations on modal reanalysis of nonconservative dynamics systems by the generalized receptance method, 2A776
- Implementation of a modal reanalysis method in a FE analysis context, 4A33
- Direct inversion of the impedance matrix in response reanalysis, 9A243
MORAVCIK, M: Rail on linear stochastic supports, 1T64
MORAVKA, S: Wave propagation in a thick cylindrical bar due to longitudinal impact, 7A222
MORAWIEC, H: Microstructure and properties of CuAlNi shape memory alloys, 9A1295
- Stepwise martensitic transformations in NiTi alloy studied by the DTA method (Polish), 9A1282
MOREAU, A: Detection of acoustic second harmonics in solids using a heterodyne laser interferometer, 3A306
MOREAU, JJ: Contact Mechanics, 7N21
MORECKI, A: Theory and Practice of Robots and Manipulators - Proc of RoManSy 10: Tenth CISM-IFToMM Symp, 5N13
MOREGA, AM: Optimization of pulsating heaters in forced convection, 1A1170
MOREINES, IS: Biomechanical basis of choosing the rational mass and its distribution throughout the lower limb prosthesis segments, 6A1371
MOREIRA, J: Delta wing vortex manipulation using pulsed and steady blowing during ramp-pitching, 9A1217
MOREIRA, JAM: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304
MORELLI, EA: Estimating noise characteristics from flight test data using optimal Fourier smoothing, 1A1125
MORELLI, G: Assessment of normal testis growth by quantitative texture analysis of 2D echo images, 1T1458
MORENO, R: Recurrent artificial neural network simulation of a chaotic system without training, 4T390
MORERA, JL: Accurate numerical integration of stiff differential Riccati equations, 1A66
MORESTIN, F: Necessity of taking into account the variation in the Young modulus with plastic strain in elastic-plastic software, 11A462
MORETON, DN: Response and cyclic strain accumulation of pressurized piping elbows under dynamic in-plane bending, 8A432
- Response and cyclic strain accumulation of pressurized piping elbows under dynamic out-of-plane bending, 8A433
- Onset of ratcheting in pressurized piping elbows subjected to in-plane bending moments, 10A547
MORGADO, AHP: Generalized Euler equations, 1A82
MORGAN, JE: Additive's influence on the pitting and wear of ball bearing steel, 10A979
MORGAN, JJ: Existence of periodic solutions to reaction-diffusion systems with periodic data, 1A1306
MORGAN, K: Unstructured tetrahedral mesh generation for 3D viscous flows, 7A1073
MORGAN, RE: Impact fracture of polyethylene: A nonlinear-elastic thermal decohesion model, 4A706
MORGAN, RG: Gun tunnel investigation of hypersonic free shear layers in planar duct, 2A906
MORGENSTERN JR, A: Supersonic flow past pressure vent orifices on satellite launcher vehicles, 10A1091
MORGUN, ID: Wear of lathe tools hardened in oxide melt, 6A809
MORI, A: Compression behavior of bridge bearings used for seismic isolation, 9A240
MORI, H: Operating characteristics of an externally pressurized gas lubricated piston ring, 5A1103
- Finding pedestrians by estimating temporal-frequency and spatial-period of the moving objects, 11T373
- Development of the robotic travel aid "HITOMI", 11A372
- Sensory selection in vehicle detection and avoidance, 11T333
MORI, J: Rupture directivity and slip distribution of the M 4.3 foreshock to the 1992 Joshua Tree earthquake, southern California, 12A1384
MORI, K: Stress-intensity factors for an internal semi-elliptical surface crack in cylindrical pressure vessels, 5A625
- Inclusion of elastic deformation in rigid-plastic FE analysis, 8A24
- Vehicle cornering characteristics in acceleration and braking through attitude control of front and rear tires, 9A432
- Prediction of spalling on a ball bearing by applying the discrete wavelet transform to vibration signals, 12A726
MORI, K-I: Simplified 3D simulation of non-isothermal filling in metal injection molding by the FEM, 11A609
MORI, M: Eulerian FEM for time-dependent free surface problems in hydrodynamics, 7A27
MORI, N: Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, 4A902
MORI, S: Relationship between tribological performance of liquid crystals and their molecular structure, 8T788
- Exoelectrons and tribology, 10T962
MORI, T: Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), 4A628
- Consideration of optimum conditions for surface smoothing based on lubricating mechanisms in ironing process, 5A562
- Suggestion for the comparison methods of an amount of the particle breakage by the in-situ exposure and laboratory slaking tests of a soft rock (Japanese), 10T696
- Proposal of fatigue life evaluation method for steel structural details under variable amplitude stresses (Japanese), 11A643
- Press-formability of aluminum clad stainless steel sheet, 12A682
MORI, Y: Basic study on special bus service planning for improving mobility of elderly (Japanese), 1T1466
- Application of lead-zirconate-titanate (PZT) films to the impact energy sensor (Japanese), 3A407
- Study of vaneless diffuser rotating stall based on 2D inviscid flow analysis, 9A1238
MORI, YH: Optical technique for detecting minute-amplitude standing waves on a liquid jet, 4A1016
- Visualization and analysis of adsorption behavior of alcohols on aqueous alcohol solution surfaces utilizing Brewster angle videomacrography and digital image processing, 12T1206
MORI, YS: Buoyancy effects on the wake behind a heated obstacle immersed in a turbulent boundary layer, 5A1136
MORIE, T: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, 3A287
MORIGUCHI, T: Development of piezoelectric XYΓ positioning device using impulsive force (Japanese), 11A358
MORII, T: Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), 7A554
MORIKAWA, H: Studies on connecting structure between steel shell and steel reinforced concrete (Japanese), 9A924
MORIKAWA, K: Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, 1A755
- Initial temperature evaluation for flash temperature index of gear tooth, 5T821
MORIKAWA, R: Error evaluation of the structural intensity measured with a scanning laser Doppler vibrometer and a k-space signal processing, 10A139
MORIMOTO , M: Acoustic properties of an infinite elastic plate backed by multiple layers, 9A339
MORIMOTO, A: Studies on connecting structure between steel shell and steel reinforced concrete (Japanese), 9A924
MORIMOTO, H: Simplified analysis of circular plates including voids, 3A535
- Development of cryosorption pump for neutral beam injector, 11A1051
MORIMOTO, M: Acoustic properties of permeable membranes, 10A361
MORIMOTO, Y: Photoelastic stress analysis of orthotropic materials by using an isotropic plate, 2A687
- Scanning moire method for obtaining smooth fringe patterns, 5A683
MORINA, SI: Bounded realization of asymptotically attainable elements, 12A344
MORINI, GL: Nusselt numbers in laminar flow for H2 boundary conditions, 7A1206
MORINO, L: Forces and moments in incompressible quasi-potential flows, 11T871
MORIOKA, I: Effect of surface geometry on steam absorption into a falling film of aqueous solution of LiBr, 9A1258
MORISAKI, T: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
MORISHIGE, K: Method of collision avoidance for 5-axis control machining using 2D configuration space (Japanese), 7A446
- Vibration analysis of elastic manipulators with the adjacent link joint method, 9A457
MORISHITA, K: Machine parts visual inspection system using fuzzy-neural network (Japanese), 7A477
MORISHITA, M: Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, 11A631
MORISHITA, S: Dynamic system identification by neural network: A new fast learning method based on error back propagation, 6A270
- Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, 10A366
MORITA, C: In-plane and out-of-plane free vibrations of curved beams with variable sections, 4A158
- Free vibration analysis of anisotropic rectangular plates with various boundary conditions, 4A167
- Free vibration analysis of sandwich beam with elastic or viscoelastic core by applying the discrete Green function, 9A187
MORITA, S: Two-dimensionally quantized friction observed with 2D frictional force microscope, 4T836
- Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
MORITA, S-I: Cold heat-release characteristics of phase-change emulsion by air-emulsion direct-contact heat exchange method, 8A1214
MORITA, T: Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), 12A687
MORITA, Y: Fatigue degradation and life prediction of glass fabric polymer composite under tension-torsion biaxial loadings, 8A582
MORITOKI, H: Non-contact measurement of a gear (4th Report): Development of a measuring system for tooth profiles using the optical 2 point method (Japanese), 5T822
MORIWAKE, A: Evaluation of the effect of surface coatings through the diffusion process of chloride ion in concrete (Japanese), 2A752
- Study on durability of surface coatings performed on an existing concrete structure (Japanese), 2A765
MORIWAKI, T: Development of precision feed mechanism by applying principle of walking drive - 2nd report: Development of feed velocity control method and ultraprecision positioning system (Japanese), 2A337

- Evaluation of friction torque and heat quantity generated in spindel (2nd Report): Influence of design parameters upon heat quantity evaluated with an improved measuring system (Japanese), 5A812
- Mechanical property enhancement of glass fiber-reinforced polyamide composite made by direct injection molding process, 9A534
- Experimental analysis of ultraprecision machining, 9A728

MORIYA, Y: Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, 12A1020

MORIYAMA, K: Thickness of the liquid film formed by a growing bubble in a narrow gap between two horizontal plates, 8A1148
- Simple method of evaluating the failure probability of a structure considering the skewness of distribution, 9A899

MORIYAMA, S: Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, 12A1490

MORK, KJ: Effects of a vibration mass damper in a wind turbine tower, 11A152

MORLAND, LC: Oblique wind waves generated by the instability of wind blowing over water, 12A248

MORLAND, LW: Dynamic impact between a viscoelastic ice flow and a rigid structure, 8A1399

MORLET, AC: Convergence of the sinc method for a fourth-order ordinary differential equation with an application, 2A35

MORLEY, CT: Local couple transfer to a torsionless grillage, 2A756
- Effectiveness factor of concrete in continuous deep beams, 7A935

MORLEY, EC: Matrix of confusion: A classification of robot movement, 11A398

MORLEY, NB: Modeling of fully-developed, liquid metal, thin film flows for fusion divertor applications, 4A1037

MORLIER, J: Three-dimensional analysis of the angular momentum of a pole-vaulter, 12A1496

MORMUL, NF: Multi-criterion optimization of strengthened hybrid composite panels (Russian), 1A873

MOROHOSHI, T: Contact stress in a bolted joint with a threaded bolt, 10A1033

MORONEY, DT: Wave scattering by a 2D pressure-release surface based on a perturbation of the Green's function, 1A343

MORONUKI, N: Study on controlling algorithm to realize high-speed & high-accuracy control systems (1st Report): Proposal of modified delta operator (Japanese), 9A438

MOROZ, IM: Multiple bifurcations in triple convection with non-ideal boundary conditions, 11A1267

MOROZOV, AD: Problem of a pendulum with an oscillating point of suspension, 7A113

MOROZOV, IB: Instantaneous polarization attributes and directional filtering, 11A1373

MOROZOV, NF: Antiplane deformation of an elastic wedge under action concentrated near the corner point, 2A364

MOROZUMI, M: Study for a new type internal gear pump, 9T1241

MORPHIS, G: Flow in a second-stage nozzle of a low-speed axial turbine and its effect on tip clearance loss development, 5A1057

MORRELL, PJB: Influence of joint detail on the flexural-torsional interaction of thin-walled structures, 5A12

MORREY, D: Technique for experimental acoustic modal analysis, 11A263

MORRIS, AG: Qualification of safety critical structures by FE analytical methods, 11A794

MORRIS, AS: Neural network based adaptive robot controller, 7A448

MORRIS, DH: Method for determining critical strain gage size in anisotropic materials with large repeating unit cells, 2A715

MORRIS, GK: Thermal wake downstream of a 3D obstacle, 6A977

MORRIS, JF: Self-diffusion in sheared suspensions, 10A1124

MORRIS, MJ: Turbulent Flows - 1995 ASME/JSME Fluids Eng Conf, 1N33
- Pressure sensitive paint in transonic wind-tunnel testing of the F-15, 7A1200
- Step response of pressure-sensitive paints, 8A1044

MORRIS, PJ: Instability of jets of arbitary exit geometry, 3A964
- Conformal grid generation for high aspect ratio simply and doubly connected regions, 4A60
- Scattering of sound from a spatially distributed, spherically symmetric source by a sphere, 5A273

MORRIS, SJS: Stability of thermoviscous Hele-Shaw flow, 8A974

MORRIS, WD: Rotating facility to study heat transfer in the cooling passages of turbine rotor blades, 8A1120
- Convective heat transfer in rotating ribbed tubes, 11A1142

MORRIS, WL: Compression-compression fatigue of 3D woven composites, 4A667
- Tensile failure of 3D woven composites, 11A689

MORRISON, C: In-plane and interlaminar shear properties of carbon-epoxy laminates, 5A473

MORRISON, GL: Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf, 1N30

MORRISON, PJ: Area preserving nontwist maps: Periodic orbits and transition to chaos, 8A76

MORRISSEY, J: Simple re-derivation of logarithmic disordering of a dynamic planar crack due to small random heterogeneities, 1A590

MORRO, A: Internal dissipation, relaxation property, and free energy in materials with fading memory, 4A454

MORROW, TB: Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf, 1N30

MORSE, AP: Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, 5A1140

MORSHEDIZADEH, R: Surface topography measurement using digital moire contouring: Errors and limitations, 2A692

MORSI, YSM: Prediction of turbulent swirling flows in axisymmetric annuli, 2A988

MORSY, UA: Three-dimensional nonlinear FE model for the Molikpaq, Gulf's mobile caisson, 12A857

MORTELMANS, F: Current concrete strength tests suitable for high strength concrete, 2A409

MORTENSEN, A: Forced unidirectional infiltration of deformable porous media, 9A1047

MORTIER, M: Transient rheological behavior of poly-para-phenylenetherephthalamide (PpPTA) in sulphuric acid, 9A1084

MORTON , JW: Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, 12A861

MORTON, B: New computational algorithm for 7R spatial mechanisms, 4A868
- Stability of dynamic inversion control laws applied to nonlinear aircraft pitch-axis models, 8A1019

MORTON, DJ: New 3D FE for adaptive h-refinement in 1-irregular meshes, 4A43

MORTON, J: Evaluation of the energy absorption of laminated composite plates, 2A473

MORTON, KW: Numerical Methods for Fluid Dynamics 5, 7N25
- Evolution-Galerkin methods and their supraconvergence, 1A57

MORTON, SK: Application of artificial neural networks for the optimum design of a laminated plate, 9A881

MORUD , K: Computational fluid dynamics simulation of bioreactors, 4A382

MORVAN, D: Oscillatory flow convection in a melted pool, 6A1097

MOSAVI MASHADI, M: New semi-automatic method for node numbering in a FE mesh, 3A32

MOSCA, E: Extensions to generalized LQG and H_∞ multivariable controllers, 8T280

MOSCHANDREAS, DJ: Measurement of indoor bioaerosol levels by a direct counting method, 10T1458

MOSCHETTA, J-M: Numerical investigation of supersonic vortical flow about a missile body, 5A902

MOSER, RD: Numerical study of turbulent supersonic isothermal-wall channel flow, 6A921

MOSES, BE: Analytical model of progressive slope failure in waste containment systems, 6A543

MOSES, HL: Experimental and numerical study of transonic turbine cascade flow, 6A1026

MOSHARAFA, A: Deformation of a superconducting cylindrical tube in a parallel magnetic field, 4A596

MOSHCHUK, N: Response statistics of ocean structures to nonlinear hydrodynamic loading - Part II: Non-Gaussian ocean waves, 9A956

MOSHCHUK, NK: Asymptotic expansion of ship capsizing in random sea waves - I: First-order approximation, 5A154
- Asymptotic expansion of ship capsizing in random sea waves - II: Second-order approximation, 5A155

MOSHENETS, NI: Analysis of necessary condition of looping in towed systems, 9A567

MOSHER, DA: State variable constitutive model for superplastic Ti-6Al-4V based on grain size, 10A540

MOSHER, M: Effects of ingested atmospheric turbulence on measured tail rotor acoustics, 7A313
- Study of noise on a small-scale hovering tilt rotor, 10A341

MOSHER, RL: Red river U-frame lock No 1 backfill-structure-foundation interaction, 8A538

MOSHEV, VV: Models of the initiation of macroscopic cracks in particlate elastomeric composites, 3A700
- Experimental study of interphase friction contribution to strain resistance of polymers with dispersed reinforcement (Russian), 7A545

MOSKOVIC, R: Competing risks models for fracture in the ductile to brittle transition temperature region, 7A799

MOSKVIN, VG: Dynamic analysis of vehicles, 5T152

MOSKWA, JJ: Analysis of the effects of torque, engine geometry, and speed on choosing an engine inertia model to minimize prediction errors, 9A434

MOSLEHY, FA: BEM for stress reduction by optimal auxiliary holes, 3A531
- Boundary element method-based pattern search solution for a class of inverse elastostatic problems, 9A100

MOSS, EA: Sources of error in eigenvalue spectra for pipe-Poiseuille flows, 12T1139

MOSS, JB: Assessment of a differential total absorptivity solution to the radiative transfer equation as applied in the discrete transfer radiation model, 10A1300

MOSS, JN: Blunt body rarefied wakes for Earth entry, 1A1015

MOSS, PJ: Compression behavior of bridge bearings used for seismic isolation, 9A240

MOSSET, S: Probabilistic method for the fatigue life assessment of powder metallurgy parts of aircraft engines, 10A733

MOST, J-M: Modeling of normal and erosive burning rate of a hot double-base homogeneous propellant, 9A1325

MOST, JM: Premixed and diffusion flames in a centrifuge, 1A1319
- Three-dimensional modeling and parametric study of turbulent burning along the walls of a vertical rectangular channel, 7A1337

MOSTAFA, IM: Effect of laminate orientations on friction and wear mechanisms of glass reinforced polyester composite, 12A881

MOSTAFAVI, M: Effect of ambient temperature on the surface area of components of an air-cooled lithium bromide-water absorption unit, 7A1273
- Impact of ambient temperature on lithium-bromide-water absorption machine performance, 10A1406
- Thermodynamic analysis of combined diesel engine and absorption refrigeration unit: Supercharged engine, 10A1241
- Thermodynamic analysis of combined diesel engine and absorption unit: Turbocharged engine with intercooling, 12A1210

MOSTER, G: Transonic aeroelastic models of highly swept hypersonic lifting surfaces, 5A230

MOSZCZYNSKI, A: Investigations of barrel bore wearing mechanism, 1A937
- Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, 9A725

MOSZYNSKI, M: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450

MOTAN, ES: Interface shear behavior of landfill composite liner systems: A FE analysis, 12A662

MOTAVALLI, M: Fiber-reinforced laminated composite tubes with free ends under uniform internal pressure, 3A497

MOTE JR, CD: Equilibrium displacement and stress distribution in a 2D, axially moving web under transverse loading, 5A498
- Reduction of vortex shedding noise in idling circular saws using self-jets of air through saw teeth, 6T254
- Local stability of gyroscopic systems near vanishing eigenvalues, 9A142
- Exact boundary condition perturbation solutions in eigenvalue problems, 9A170
- Vibration control of an axially moving string by boundary control, 9A193
- Parametric control of conservative mechanical systems, 12A378
- Derivation of a thin film equation by a direct approach, 12A245
- Axial force stabilization of transverse vibration in pinned and clamped beams, 12A142

MOTE, CD: Instability mechanisms of a disk rotating close to a rigid surface, 5A142

MOTOHASHI, T: Inertia effects on film rupture in hydrodynamic lubrication, 5A1092

MOTOI, H: Axial oil film rupture in high speed bearings due to the effect of the centrifugal force, 5A1083

MOTOJIMA, O: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150

MOTOVILOVETS, IA: Stressed state of a plate heated by heat source (Russian), 7A1283
- Stability of a plate heated by the heat source, 7A662

MOTT, DR: Viscous normal shock solutions including chemical, thermal, and radiative nonequilibrium, 3A1137

MOTT, RL: Applied Strength of Materials, Third Edition, 6R14

MOTTA, M: Nonlinear optimal control problems with state constraints, 2T264
- Dynamic programming for nonlinear systems driven by ordinary and impulsive controls, 7A380

MOTTAHED, B: Artificial roughness effects on turbulent transfer coefficients in the entrance region of a circular tube, 11A1105

MOTTERHEAD, JE: Finite element analysis of a total knee replacement by using Gauss point contact constraints, 9A1463

MOTTERSHEAD, JE: Finite Element Model Updating in Structural Dynamics, 7R1
- Geometric parameters for FE model updating of joints and constraints, 11A11

MOTYLINSKII, IP: Investigation of combined scheme of designing air cushion, 8A1022

MOU, J: Adaptive methodology for machine tool error correction, 5A856

MOU, YANGHU: Damage zones in strain-hardening materials, 9A785

MOUCHRIF, S-E: Tensile tunnel-crack with a slightly wavy front, 9A833

MOUKALLAD, F: New approach for building bounded skew-upwind schemes, 9A1307

MOUKALLED, F: Transient thermal performance of axially and radially diluted nuclear fuel cells, 1A1419
- Influence of wall conduction on mixed convection heat transfer in externally finned pipes, 1A1201
- Transient thermal performance of a radially diluted and centrally cooled nuclear fuel cell, 5A1151
- Universal model for studying the performance of Carnot-like engines at maximum power conditions, 8A1060
- Laminar-mixed convection heat transfer in externally-finned pipes, 8A1093

MOULE, G: Efficient numerical calculation of wave loads on an array of vertical cylinders, 5A870

MOULICK, SK: Further investigations in tubesheet design for a U-tube heat exchanger, 10A612

MOURA, LFM: Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 2A937
- Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 3A932

MOURAD, A-HI: Mode I and mixed-mode stable crack extensions through stiffened three-point bend specimens, 1A799
- Criterion for mixed mode stable crack growth - I: Three point bend geometry, 2A582
- Criterion for mixed mode stable crack growth - II: Compact tension geometry with and without stiffener, 2A583
- Influence of state of stress on mixed mode stable crack growth through D16AT aluminum alloy, 6A652
- Mode II stable crack growth, 8A576

MOURAD, KM: Using the BEM to investigate the wave propagation in a viscoelastic-acoustic system, 3A51

MOURAD, S: Dynamic response of hollow section frames with bolted moment connections, 4A187

MOURITZ, AP: Effect of processing on the underwater explosion shock behavior of GRP laminates, 6A442
- Effect of underwater explosion shock loading on the flexural properties of GRP laminates, 6A443
- Damage to stitched GRP laminates by underwater explosion shock loading, 7A829
- Flexural properties of stitched GRP laminates, 12A564

MOURSI, AM: Experimental studies of heavy radial density currents, 6A904

MOURTOS, NJ: Flow past a flat plate with a vortex-sink combination, 12A257

MOUSSA, A: Reflection characteristics of longitudinal waves in a semi-infinite cylindrical rod connected to an infinite viscoelastic stratum, 9A270

MOUSSA, N: Permanent capillar-heavy waves in circular shaped channels, 9A291

MOUSSA, T: Steady and dynamic shear properties of non-aqueous drag-reducing polymer solutions, 5A861

MOUSSOUROS, M: Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, 10A275

MOUSTAFA, KAF: Load sway control of overhead cranes with load hoisting via stability analysis, 9A1006

MOUSTAOUI, M: Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, 12T1417

MOUTARLIER, P: Shortest paths for a car-like robot to manifolds in configuration space, 7A457

MOUTI, M: Dissociation rate constants in nonequilibrium flows, 4T994

MOUTSOGLOU, A: Performance tests of a Benesh wind turbine rotor and a Savonius rotor, 12T1432

MOVAHHEDY, M: Reconstruction of a mass-spring system from spectral data II: Experiment, 1A844

MOVCHAN, AA: Micromechanical description of the deformation due to martensite transformations in shape-memory alloys, 3A10

MOVCHAN, AB: Mathematical Modelling of Solids with Nonregular Boundaries, 3R20
- Dynamic weight functions for a moving crack - II: Shear loading, 1A587

MOVCHAN, NV: Mathematical Modelling of Solids with Nonregular Boundaries, 3R20

MOVSUMOV, EA: Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian), 12R16

MOW, VC: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371
- Determination of collagen-proteoglycan interactions *in vitro*, 10A1475

MOWLA, D: Mathematical modeling of solar stills in Iran, 4A1353

MOXLEY, RE: Impact of thin-walled projectiles with concrete targets, 1A216

MOY, SSJ: Effect of precast concrete planks on shear connector strength, 7A934

- Strength and stiffness of fiber-reinforced plastic plates, 11A518
MOYLE, AM: Environment control of individual aqueous particles in a cubic electrodynamic levitation system, 11A1317
MOZHAEV, AP: Study of internal heat transfer in nonuniform porous structures, 10T1423
MOZURKEWICH, G: Heat transfer from a cylinder in an acoustic standing wave, 3A1066
MOZZHORINA, TJ: Investigation of high-temperature engines in system of supersonic aircraft, 8T1291
MRAD, RB: On-board prediction of power consumption in automobile active suspension systems - II: Validation and performance evaluation, 11A343
- On-board prediction of power consumption in automobile active suspension systems - I: Predictor design issues, 11A342
MROZ, J: Influence of defects on dielectric properties of $(CH_3NH_3)_3Bi_2X_{11}$ (X = Cl, Br) crystals, 1A688
MROZ, S: Studies of composition of surfaces and interfaces with the use of Auger electron spectroscopy, 9T983
MROZ, Z: Control of deformation process by plastic strain, 4A452
- Interface model for analysis of deformation behavior of discontinuities, 6A1250
- Sensitivity analysis of truss and frame structures in critical states, 7A969
- Multisurface and integral description of anisotropic hardening evolution of metals, 8A427
- Optimal segmentation of beam and disk structures, 12A820
MRUTHYUNJAYA, TS: Constructive predictor-corrector algorithm for the direct position kinematics problem for a general 6-6 Stewart platform, 12A86
- Question of minimax loop-size in planar homogeneous kinematic chains, 12A981
MU , YONGKE: Inverse analysis method of displacements in rock engineering (Chinese), 9A687
MU, HUAPING: Complex model for lightly loaded bearings, 6T1043
MU, MO: Modeling with collaborating PDE solvers: Theory and practice, 2A59
MU, SIMING: Direct numerical simulation of acoustic-shear flow interactions in 2D ducts, 7A330
MUC, A: Interlaminar failure and buckling of double-curved laminated composite shells, 1A665
- Layout optimization of doubly-curved laminated composite shells of revolution, 11A515
MUCCI, PJ: Active vibration control of a beam subjected to AM or FM disturbances, 4A798
MUCKE, R: hp-version FEs for geometrically nonlinear problems, 4A32
MUDAWAR, I: Correlation of Sauter mean diameter and critical heat flux for spray cooling of small surfaces, 1A1229
- Optimization of quench history of aluminum parts for superior mechanical properties, 3A1182
- Theoretical model for flow boiling CHF from short concave heaters, 3A1083
- Experimental and statistical investigation of changes in surface roughness associated with spray quenching, 10A1345
MUDFORD, NR: High-enthalpy, hypersonic compression corner flow, 11A918
MUELLER, DC: Theoretical effects of aluminum gel propellant secondary atomization on rocket engine performance, 11A1311
MUELLER, GP: Landfill gas application development of the Caterpillar G3600 spark-ignited gas engine, 5A1282
MUELLER, JF: Standard Handbook of Consulting Engineering Practice, Second Edition, 11N50
MUENCH, R: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
MUFFATTO, M: Reorganizing for product development: Honda's case, 8T376
MUFTI, IR: Finite-difference depth migration of exploration-scale 3D seismic data, 11A1371
MUFTU, S: Study of cross-width variations in the 2D foil bearing problem, 10A997
MUGHAL, MP: Experimental study of boiling on a wicked surface, 5A1178
MUHLHAUS, H-B: Evolution of localized folding for a thin elastic layer in a softening visco-elastic medium, 10A639
- Dispersion and wave propagation in discrete and continuous models for granular materials, 11A173
MUI, RCY: Vortical structure of parasitic capillary waves, 5A206
MUIJDERMAN, EA: Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, 10A1020
MUJSCE, AM: Single particle characterization of time-of-flight mass spectrometry, 2A1210
MUJU, S: Shielding due to aligned microcracks in anisotropic media, 10A813
MUJUMDAR, AS: Simultaneous iteration procedure for the FE solution of the enthalpy model for phase change heat conduction problems, 1A1265
- New solar receiver thermal store for space-based activities using multiple composite phase-change materials, 3A1163
- Comparative evaluation of different turbulence models for confined impinging and opposing jet flows, 5A1138
- Enhancement of energy charge-discharge rates in composite slabs of different phase change materials, 5A1169
MUKAI, K: Heat transfer from a hot rock to water flowing through a crack, 4A1170
MUKAI, S: Development of multiaxial creep testing machine using cruciform specimen (Japanese), 12A783
MUKERJI, T: Seismic pore space compressibility and Gassmann's relation, 3A591
- Fluid substitution: Estimating changes in Vp without knowing Vs, 3A1264
MUKHERJEE, A: Artificial neural networks for the prediction of mechanical behavior of metal matrix composites, 3A493
- Modeling and simulation of PV-powered intermittent load systems by bond graph technique, 4A1357
MUKHERJEE, N: Thermal shocks in composite plates: A coupled thermoelastic FE analysis, 7A584
- Finite element free vibration analysis of a thermally stressed spinning plate, 8A128
- Thermoelastic excitation of multi-directional fibrous composite cylinders, 11A1245
MUKHERJEE, R: Pseudoholonomic behavior of planar space robots, 6T363
MUKHERJEE, S: Wave propagation in 1D multi-bay periodically supported panels under supersonic fluid flow, 2A155
- Adaptive mesh refinement of the BEM for potential problems by using mesh sensitivities as error indicators, 5A42
- Boundary Element Method-Finite Element Method framework for simulation of a plastic workpiece deformed by an elastic tool, 5A17
- Optimal design of diamond anvils using FE analysis and simplified plasticity equilibrium equations, 9A887
- Complex variable formulations for usual and hypersingular integral equations for potential problems: With applications to corners and cracks, 10A827
- Boundary contour method for 3D linear elasticity, 12A485
MUKHOPADHYAY, B: Nonlinear thermal vibration of nonhomogeneous elastic shell, 11A125
MUKHOPADHYAY, M: Geometrically nonlinear analysis of laminated composite stiffened shells, 5A511
- Finite element free vibration analysis of laminated composite stiffened shell, 6A149
- Finite element free vibration analysis of a thermally stressed spinning plate, 8A128
MUKOID , VP: Nonstationary wave movements of oblique-angle plates under effect of instantaneously applied load, 7A223
MUKOID, VP: Numerical integration of equations of plane and axisymmetrical problems of dynamic theory of elasticity in the complex form areas, 9A492
MULARGIA, F: Forecasting where larger crustal earthquakes are likely to occur in Italy in the near future, 3A1282
- Detecting low-dimensional chaos in time series of finite length generated from discrete parameter processes, 7A107
MULAY, SP: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1, 3N32
MULDOWNEY, GP: Spectral BE approach to 3D Stokes flow, 2A874
- Resistance functions for spherical particles, droplets and bubbles in cylindrical tubes, 2A924
MULDOWNEY, JS: Geometric approach to global-stability problems, 12A100
MULGUND, SS: Aircraft flight control in wind shear using sequential dynamic inversion, 3A991
MULHOLLAND, AJ: Eikonal approximation to excitable reaction-diffusion systems: Travelling non-planar wave fronts on the plane, 6A1188
MULLEN, RL: Analysis of closed cell metal composites, 9A557
MULLER , M: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459
MULLER , PC: Independent joint control: Estimation and compensation of coupling and friction effects in robot position control, 7A444
MULLER DE ALMEIDA, SF: Preliminary considerations on a new design concept for below the knee energy storing prosthesis, 10A1490
MULLER, AJ: Single particle characterization of time-of-flight mass spectrometry, 2A1210
MULLER, B: LPCVD against PECVD for micromechanical applications, 10T460
MULLER, D: Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, 4A512
- Effects of interphase and impact strain rates on tensile off-axis behavior of unidirectional glass fiber composite: Experimental results, 4A493
MULLER, H: Comparison measurements for selection of suitable photodetectors for use in Nd:YAG LDA systems, 10A1238
MULLER, JA: Rotation of liquid crystalline macromolecules in shear flow and shear-induced periodic orientation patterns, 10A1049
MULLER, L: Diagnostics of high power toothed gears: A new proposal, 3A841
MULLER, MR: Cratering phenomena on aircraft anti-icing films, 7A1169
MULLER, P: Evolution of near-inertial waves, 4A275
- So-called variational consistency of plate models - I: Indefinite plates, Evaluation of dispersive behavior, 6A481
MULLER, PC: Approach to automatic generation of dynamic equations of elastic joint manipulators in symbolic language, 3A398
MULLER, R: Drop deformation during elongational flow in blends of viscoelastic fluids: Small deformation theory and comparison with experimental results, 5A866
- Analysis of mechanical properties of cancellous bone under conditions of simulated bone atrophy, 12A1442
MULLER, RS: Magnetic microactuation of polysilicon flexure structures, 5T351
MULLER, S: Existence theory for nonlinear elasticity that allows for cavitation, 1A636
- Microstructures with finite surface energy: The two-well problem, 6A415
MULLER, SJ: Flow past a sphere in polystyrene-based Boger fluids: The effect on the drag coefficient of finite extensibility, solvent quality, and polymer molecular weight, 8A896
- Flow of Oldroyd-B fluids in curved pipes of circular and annular cross-section, 8A861
- Experimental study of shear-induced migration of polymers in dilute solutions, 8A867
MULLER, W: Dynamics of human flight on skis: Improvements in safety and fairness in ski jumping, 12A1494
MULLER, WH: Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, 5A399
MULLER-STEINHAGEN, H: Pool boiling heat transfer coefficients for binary mixtures of acetone, isopropanol, and water, 1A1228
- Heat transfer from a finned surface to boiling liquid mixtures, 1A1238
MULLERSCHON, H: Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, 9A604
MULLIGAN, JC: Microencapsulated phase-change material suspensions for heat transfer in spacecraft thermal systems, 10A1309
MULLIN, SA: Scale model experiments with ceramic laminate targets, 5A197
MULLINS, G: Study of pore pressures induced in laboratory dynamic consolidation, 8A531
MULLINS, WW: Stress distribution and mass transport along grain boundaries during steady-state electromigration, 1A680
MULYAR, YM: Stability of cylindrical shell under the deflection compression under 1-way connection, 9A634
MULYARCHIK, SG: Construction of an algebraically reduced system for the acceleration of preconditioned conjugate gradients, 12A74
MUNAKATA, T: Solid particle erosion behavior of FRMs (Japanese), 2A428
MUNCH-ANDERSEN, J: Empirical stochastic silo load model - I: Correlation theory, 1A930
- Empirical stochastic silo load model - II: Data analysis, 1A931
MUNDEL, T: Mechanism for heterogeneous endothelial responses to flow *in vivo* and *in vitro*, 5A1388
MUNDRA, K: Numerical prediction of fluid flow and heat transfer in welding with a moving heat source, 7A1227
MUNDRANE, MR: Low Prandtl number Marangoni convection with a deforming interface, 3T1040
MUNDT, C: Computational fluid dynamics validation using multiple interferometric views of a hypersonic flowfield, 12A861
MUNDT, M: Qualitative features of high lift hovering dynamics and inertial manifolds, 8A1026
MUNDT, MD: Symmetry, sidewalls, and the transition to chaos in baroclinic systems, 4A128
- Instability of oscillatory Stokes-Stewartson layers in a rotating fluid, 9A1175
MUNEKATA, T: Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478
MUNGAL, MG: Instantaneous velocity measurements in laminar and turbulent premixed flames using on-line PIV, 3A1210
- Instantaneous 3D flow visualization of a supersonic mixing layer, 8A916
MUNGUIA, G: Field performance of lead-acid batteries in photovoltaic rural electrification kits, 3A1383
MUNIN, AG: Predicting a noise level of rotating propeller with blades of an arbitrary form, 10A340
MUNJAL, ML: Analysis of inertance due to the higher order mode effects in a sudden area discontinuity, 1A292
MUNK, W: Ocean Acoustic Tomography - Monographs on Mechanics Series, 2R52
MUNNS, AK: Generating solid models from 2D representations, 6A854
MUNOZ RIVERA, JE: Smoothing properties, decay, and global existence of solutions to nonlinear coupled systems of thermoelastic type, 3A1175
MUNOZ, AA: Analytical approach for determining the environmental impact of machining processes, 3A615
MUNOZ, JC: Applications of maximum entropy method in capillary viscometry, 9A1046
MUNRO, RG: New method of measuring involute profile deviations of gear teeth, 8A807
MUNSON, DE: Probabilistic creep analysis of underground structures in salt, 8A597
MUNTEAN, GG: Multifractals in elastic tube vibrations due to internal flow, 3T214
MUNTEANU, L: Double couple radiation pattern in acoustics - Part I: A nonlocal theory of radiation, 11A238
MUNTZ, EP: Initial experimental study of pulsed electron beam fluorescence, 8A1058
- Computational study of radiometric phenomena for powering microactuators with unlimited displacements and large available forces, 11T357
MUNZ, D: Stress intensity factor and stress distribution in a joint with an interface corner under thermal and mechanical loading, 1A582
- Stress distribution in a dissimilar materials joint for complex singular eigenvalues under thermal loading, 1A1294
- Calculation of the second fracture parameter for finite cracked bodies using a three-term elastic-plastic asymptotic expansion, 2A625
- Assessment of notches in ceramic components, 5A635
- Stress singularities in a bimaterial joint with inhomogeneous temperature distribution, 9A489
- Determination of strain components in low-cycle multiaxial fatigue tests on tubes, 11A629
- High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441
MUONI, R: Effects of continuous addition of lubricating oil additives upon the performance and wear of a high-speed diesel engine in severe working conditions, 5A1102
MUQTADIR, A: Design provisions for stair slabs in the Bangladesh building code, 8A743
MURA, J: Bayesian analysis of fatigue life distribution including censored data (Japanese), 9A761
MURA, T: Lamellar inhomogeneities in a uniform stress field, 6A384
MURACA, PN: Cooperative neural field for the path planning of a robot arm, 7A454
MURAD, E: Spacecraft interaction with atmospheric species in low Earth orbit, 7A990
MURAD, MA: Multi-scale theory of swelling porous media - I: Application to 1D consolidation, 2A1214
- Higher-order gradient post-processings for second-order elliptic problems, 5A27
- Multiscale flow and deformation in hydrophilic swelling porous media, 7A1365
- Asymptotic behavior of semidiscrete FE approximations of Biot's consolidation problem, 12A1350
MURAI, S: Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), 5A832
MURAKAMI, A: Boundary-layer transition on swept cylinders at hypersonic speeds, 9A1097
MURAKAMI, K: Numerical method for nonlinear interaction between Stokes wave and coastal structures (Japanese), 6A216
- Study on the size effect of tensile characteristics of carbon fiber-reinforced cement composites, 7A556
MURAKAMI, M: Visual study on flow behavior in an inclined two-phase closed thermosyphon, 1A1286
- Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, 1A1373
MURAKAMI, S: Mesh-dependence in local approach to creep fracture, 1A770
- Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), 7A796
- Constitutive and damage evolution equations for elastic-plastic-damaging materials based on thermodynamics theory (Japanese), 9A3
- Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), 9A826
MURAKAMI, T: Fast collision-free path planning for translating mobiler in 3D space (Japanese), 5A377
- Modeling of the ground by CEM and determination of its input parameters (Japanese), 7A689
- Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, 12A1490
MURAKAMI, Y: Nonlinear stability of kolmogorov flow with bottom-friction using the energy method, 3A958
- Analysis of rockfall by the dynamic granular element method, 4A624
- Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), 4A615
- Measurement of Young's modulus and stress analysis of a magnetic thin film, 7A868
- Study on crack models caused by pressure due to corrosion products (Japanese), 9A746

- Method for predicting service load from the width and height of striation (Japanese), 10A743
MURALI, D: Multigrid computation of flow past airfoil using k-e turbulence model, 2A1040
MURALIDHAR, K: Computation of flow and heat transfer around a vertical discrete protruding heater using an operator-splitting algorithm, 1A1200
MURALIDHAR, R: Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints, 12A807
MURALIDHARA RAO, M: Experimental investigation for fluid flow and heat transfer in a rotating tube with twisted-tape inserts, 2A1104
MURALIDHARAN, K: Prototype test on x-bracing panels using cold-formed lipped angles, 7A957
MURAMOTO, KK: Model for predicting hypersonic laminar near-wake flowfields, 10T1095
MURAO, R: Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, 5A1060
MURAOKA, K: Study on interaction between turbulence generated by uniformly falling particles and oscillating grid turbulence, 3A1347
MURASE, Y: Introduction of stress functions around a circular interface crack between dissimilar materials, 8A667
MURASHKIN, VV: Calculation of rolling-contact bearing service life under variable conditions of loading, 6A810
MURATA, A: Experimental investigation of flow in an annular-conical passage, 5A944
- Flow in an annular-conical passage, 7A1100
- Efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters, 10A481
MURATA, H: Cyclic strengths of clay and sand by strain rate controlled cyclic triaxial test (Japanese), 4A612
- Engineering properties of carbonate sands and skin friction of pile in sands (Japanese), 4A598
- Effect of the dewatered vertical drain method against soil liquefaction (Japanese), 10A655
MURATA, K: Heat and mass transfer with condensation in a fibrous insulation slab bounded on one side by a cold surface, 2A1169
MURATA, M: Case of high noise sensitivity, 3A284
MURAVYOV, IF: Concept of boiling-up shock, 6A201
MURAWSKI, C: Temperature measurement of a curved surface using thermographic phosphors, 4A1128
MURAWSKI, K: Numerical modeling of the solar wind interaction with Venus, 10A1188
- Numerical simulations of MHD wave excitation in bounded plasma slabs, 10A1189
MURAYAMA, T: Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, 12A435
MURDOCH, AI: Continuum modeling of porous media containing fluid: A molecular viewpoint with particular attention to scale, 2A1212
MURDOCK, JW: Flow-structural interaction inside a solid rocket motor during ignition transient, 2A1195
MUREITHI, EW: Weakly nonlinear wave motions in a thermally-stratified boundary layer, 11A983
MUREITHI, NW: Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, 9A1269
MURIEL, A: Quantuum model for the onset of turbulence, 12A1146
MURIN, J: Transfer functions and dynamic frequency characteristics of a hydraulic piping of hydrostatic transmissions, 6A198
- Dynamic model of a machine aggregate with regulated diesel drive, mechanical and regulated hydrostatic transmission mechanism (Polish), 11A823
MURO, T: Tractive performance and compaction effect of a road roller running on a weak sandy soil, 10A685
- Optimum trafficability control system of a two-axle, two-wheel road roller during driving and braking action (Japanese), 10A440
MUROI, J: Effect of axial force on holographic measurement of complex elastic modulus, 1A848
MUROTA, K: Reliability of structures subject to normally distributed initial imperfections, 8A504
MURPHY, J: Systems design of a satellite link protocol, 7A303
MURPHY, JC: Thermal NDE using microwave sources, 1A861
MURPHY, JE: Multifilament source model for short-range underwater acoustic problems involving penetrable ocean bottoms, 7A331
MURPHY, KA: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222
- Sapphire optical fiber-based interferometer for high temperature environmental applications, 1A1298
- Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342
- Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882
- Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, 7A884
MURPHY, KD: Curve and surface veering for a braced column, 4T149
MURPHY, MD: Topological synthesis of compliant mechanisms, 6A858
MURRAY, BA: Numerical modeling of chemistry and gas dynamics during shock-induced ethylene combustion, 8A1280
MURRAY, BT: Ostwald ripening and coalescence of a binary alloy in 2D using a phase-field model, 11A899
MURRAY, DW: Analysis of postbuckling behavior of line pipe subjected to combined loads, 1A669
MURRAY, IF: Optimization of hybrid-rocket-booster fuel-grain design, 5A1291
MURRAY, PE: Model of residual stress in the fabrication of thin glass films, 10A557
MURRAY, RM: Non-holonomic control systems: From steering to stabilization with sinusoids, 2A270
- Variational principles for constrained systems: Theory and experiment, 5A66
MURRAY-SMITH, DJ: Genetic algorithm automated approach to the design of sliding mode control systems, 10A426
MURRELL, SAF: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578
MURRI, GB: Combined tension and bending testing of tapered composite laminates, 1A585
MURRU, M: Probability gain due to foreshocks following quiescence tested by synthetic catalogs, 12A1372
MURSAJEW, AH: Implementation of a new coding scheme for ray tracing subdivision algorithms, 10A70
MURTHY, NM: Ultrasonic studies of thermodynamic fluctuations in (2,2,2-trifluoroethan-1-ol + benzone), (benzene + dimethylsulfoxide) and (2,2,2-trifluoroethan-1-ol + dimethylsulfoxide) at 298.15K, 2A185
MURTHY, P: Prediction of high temperature metal matrix structural material failure using a massively parallel computer, 5A483
MURTHY, PLN: Computational simulation of matrix microslip bands in SiC-Ti-15 composite, 10A820
MURTHY, SNB: Developments in High-Speed-Vehicle Propulsion Systems, 3N31
MURTHY, SS: HCFC22-based vapor absorption refrigoration system - Part I: Parametric studies, 10A1324
- HCFC22-based vapor absorption refrigeration systems - Part II: Influence of component effectiveness, 11A1230
MURTHY, VV: Shear force predictions from RBF corrected QUAD4 elements, 8A45
MURTHY, YVLN: Numerical simulation of welding and quenching processes using transient thermal and thermo-elastoplastic formulations, 11A837
MURTY BHALLAMUDI, S: Fully spectral method for hyperbolic equations, 5A60
- Computation of a dam-break flood wave in channel transitions, 8A872
MURTY CHALLA, VR: Beam-column modeling, 6A469
MURTY, TVR: Stochastic inverse method for ocean acoustic tomography studies: A simulation experiment, 10A382
MURUGAN, DM: Three-dimensional flow field measurements using LDV in the exit region of a radial inflow turbine, 12A1185
MURUGAPPAN, K: Steel fibers as shear reinforcement in partially prestressed beams, 5A713
MURUGAPPAN, M: Cryogenic PCBN turning of ceramic (Si_3N_4), 12A704
MURZAKHANOV, GK: Prediction of the growth of internal fatigue cracks, 6A677
MURZEWSKI, J: Analysis of frames with amplified sway for combined actions, 1A898
MUSARSKII, RA: Rigid body technique in the theory of motion of wheeled vehicles, 6T78
MUSCATO, G: Controller order reduction by using genetic algorithms, 10A429
MUSCOLINO, G: Response of non-classically damped structures in the modal subspace, 1A121
- Influence of the quadratic term in the alongwind stochastic response of SDOF structures, 12A847
MUSHTAQ, J: Multiblock solution process for the equations of fluid dynamics on a network of transputers, 12A1061
MUSIAKE, K: Atmospheric water balance and global hydrologic cycle (Japanese), 3A1342
MUSICK, M: Experimental study of the structure of several fuel-rich premixed flames of methane, oxygen, and argon, 11A1299
MUSIELAK, ZE: Limits to extensions of Burgers' equation, 11A189
MUSIOL, K: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191
MUSTAFA, D: LQG optimal scalar static output feedback, 7T469
- Generalized PI controllability, 8A261
MUSTAFA, G: New model for the analysis of settlement of drilled piers, 7A706
MUSTAFAYEV, CM: Mechanics of Materials with Curved Structures - Mechanics of Composites Series, Vol 4 (Russian), 12R16
MUSTO, JC: Task reliability assessment in robotic systems, 1A438
MUSZYNSKA, A: Forward and backward precession of a vertical anisotropically supported rotor, 10A230
MUTAMA, KR: Experimental investigation of jet fan aerodynamics using wind tunnel modeling, 12A1186
MUTHUKRISHNA SELVAM, SV: Twist drill deformation and optimum drill geometry, 2A820
MUTHUNAYAGAM, AE: Mixing pressure-rise parameter for effect of nozzle geometry in diffuser-ejectors, 8A955
MUTHUPARI, S: Elastic properties of sodium borovanadate glasses, 8A396
MUTO, T: Application of unified predictive control for an electro-hydraulic servo system, 6A334
MUTO, Y: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
MUTOH, I: Alternative lower bounds analysis of elastic thin shells of revolution, 11A534
MUTOH, Y: Mechanisms of fretting fatigue, 3A661
MUYSHONDT, A: Turbulent deposition of aerosol particles in large transport tubes, 8A1303
MUZAFERIJA, S: Numerical method for coupled fluid flow, heat transfer and stress analysis using unstructured moving meshes with cells of arbitrary topology, 1A1224
MUZUMDAR, DV: Midcourse guidance for a short-range attack missile using error compensation, 10A430
MYASNIKOVA, LP: High-strength polyethylene film fibers, 6A460
MYASNIKOVA, NA: Effect of interphase adhesion on composite properties, 6A788
MYATT, JH: Body-axis rolling motion critical states of a 65-degree delta wing, 9A1214
MYER, LR: Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992, 12N25
MYERS, BS: Axial strain measurements in skeletal muscle at various strain rates, 5A1362
- Dynamic responses of the head and cervical spine to axial impact loading, 6A1310
MYERS, MR: Numerical investigation into factors affecting anesthetic distribution during spinal anesthesia, 6A1342
MYERS, NB: VLF wave experiments in space using a modulated electron beam, 1A277
MYINT, S: Modulation of nonlinear periodic wavetrains by dissipative terms in the Korteweg-de Vries equation, 4A258
MYLNIKOV, AV: Experimental method of determining the stress-strained state (Russian), 7T877
MYRHAUG, D: Two-dimensional Weibull distribution and its application to rolling, 5A205
MYRUM, TA: Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, 11A1109
MYSHKIN, NK: Micromechanics and electrical conductivity of point contacts in boundary lubrication, 12T1188
MYSHKIS, AD: Vibrations of the string with energy dissipation and impulsive feedback support, 8T111
MYSZKOWSKI, K: Non-uniform adaptive meshing for global illumination, 1A76

N

NA, MOON-SOO: Delamination buckling of a short orthotropic tube under axial compression, 3A555
NA, S-J: Study of the effect of pre-straining on angular distortion in one-pass fillet welding incorporating large deformation theory, 2A331
- Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 2: Process optimization, 7T1033
- Study on parameter optimization for circumferential gas tungsten arc welding of small pipes considering backing gas pressure - Part 1: Analysis of weld pool surface profile, 7T1032
- Study on parameter optimization in the circumferential GTA welding of aluminum pipes using a semi-analytical FEM, 10A1037
- Analysis of thermal stress and distortion in bead-on-plate welding using laminated isotropic plate theory, 12A1287
NA, TSUNG-YEN: Unsteady isentropic flow through ducts with prescribed sound pressure level distribution, 5A261
NAAIM, M: Experimental and theoretical determination of concentration profiles and influence of particle characteristics in blowing snow, 3A1391
NAAIM-BOUVET, F: Comparison of requirements for modeling snowdrift in the case of outdoor and wind tunnel experiments, 3A1388
NAAKTGEBOREN, M: Structural lightweight concrete: Recent research, 1A895
NAAMAN, AE: Shear response of dowel reinforced SIFCON, 3A784
- Bending behavior of mortar reinforced with steel meshes and polymeric fibers, 4A802
NABARRO, FRN: Physics of Creep, 8R10
NABERGOJ, R: Flow induced system with dry friction, 9A154
NABIJOU, S: Changes in wire curvature as a wire rope is bent over a sheave, 3A523
NABIYEV, VU: Motion of a body through a large-scale inhomogeneity in a stratified atmosphere, 4A962
NACCACHE, MF: Mixed-convection in flows of viscoelastic liquids: A parametric study, 7A1219
NACHBAUER, W: Computer simulation of landing movement in downhill skiing: Anterior cruciate ligament injuries, 12A1493
NACHBIN, A: Localization length of randomly scattered water waves, 1A233
NACHEF, S: Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, 3A249
NACHMAN, P: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
NACHTIGALL, C: Permanent 3D patterns in turbulent flows with essentially 2D wall configurations, 4A1145
NACHTSHEIM, CJ: Integrating optimal experimental design into the design of a multi-axis load transducer, 5A850
NADAL MORA, V: Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, 5T951
NADARAJAH, C: Radial loading of cylindrical vessels: Influence of large displacements, 8A493
- Radial loading of cylindrical vessels: Influence of attachment rigidity, 8A781
- Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part II: Comparison between FE analysis and theory, 10A545
- Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part I: FE analysis, 10A544
NADARAJAH, P: Simplified multi-layered flow model for use in a landfill design, 11A566
NADEAU, RM: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 2: Application to seismograms recorded by the Parkfield High Resolution Seismic Network, 12A1370
NADERAN-TAHAN, K: Plastic limit pressures for neighboring radial nozzles in a spherical pressure vessel, 9A969
NADESAKUMAR, A: Advanced system concepts for future civil aircraft: An overview of avionic architectures, 6A778
NADIGA, BT: Adaptive discrete-velocity model for the shallow water equations, 2T184
NADIMPALLI, C: Pole tip recession: Investigation of factors affecting its measurement and its variation with contact start-stop and constant speed drag testing, 5A814
NADIPELLI, M: Local buckling of pultruded FRP beams: Analysis and design, 9A621
NAESS, A: Stochastic response of offshore structures excited by drag forces, 10A939
NAGABHUSHANAM, J: Flap-lag-torsion stability in hover and forward flight with 3D wake, 6A222
NAGABUSHANA, KA: Reinvestigation of hot-wire anemometry applicable to subsonic compressible flows using fluctuation diagrams, 1A1029
NAGAE, N: Enhancement of natural-convection heat transfer from a horizontal heated plate using grid fins, 7A1265
NAGAEV, RF: Dynamics of an unbalanced rotor with dry friction in the bearing, 10A228
NAGAFUJI, T: Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
NAGAI, I: Ultrasonic characterization of a polymerizing epoxy resin with imbalanced stoichiometry, 9A369
NAGAI, K: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
NAGAI, N: Vapor condensation behind a shock wave propagating through a large molecular-mass medium, 7T283
- Leidenfrost temperature on an extremely-smooth surface, 8A1129
NAGAKI, H: Effect of sulfur dioxide in recirculated exhaust gas on wear within diesel engines: Relationship between wear and amount of SO_2 absorbed by lubricating oil film, 1T1344
NAGALI, V: Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, 8A1052
NAGAMANI, K: Finite element method analysis of nonlinear dynamic response of articulated towers, 8A143
NAGAMATSU, A: Integrated optimum design of structure and H^{∞} control system, 6A717
NAGAMINE, Y: Buckling modes of plate-girders curved in plan, 1A909
NAGAMUNE, A: Ultrasonic inspection system for tubular products using real-time digital signal processing, 4A780
NAGANARAYANA, BP: Beam elements based on a higher order theory - I: Formulation and analysis of performance, 4A544

- Beam elements based on a higher order theory - II: Boundary layer sensitivity and stress oscillations, 4A545
NAGANO, H: Corrosion resistance and rust structure of weathering steels and iron antiquities (Japanese), 6A619
NAGANO, Y: Coherent motions and heat transfer in a wall turbulent shear flow, 6A990
NAGAO, M: Numerical study of turbulent structure over slip roughness in open channel flow using a low Reynolds number turbulence model, 3A881
NAGAOKA, H: Cross effect in aluminium tubes subjected to torsion and tension, 7A525
NAGAR, A: Fatigue and Fracture at Elevated Temperatures, AD-Vol 50 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N15
NAGARAJ, VT: Approximate formula for the frequencies of a rotating Timoshenko beam, 11T103
NAGARAJAN, A: Boundary contour method for 3D linear elasticity, 12A485
NAGASAKA, K: Study on the extension of the grinding conditions database: Learning and prediction by the linear model (Japanese), 7A755
NAGASE, Y: Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478
NAGASHIMA, A: Thermal diffusivity and porosity of solid materials by electromagnetic ultrasonic technique - Part 2, 2A1227
NAGATA, K: General characteristics of two-phase flow distribution in a multipass tube, 9A1257
NAGATA, M: Nonlinear solutions of modified plane Couette flow in the presence of a transverse magnetic field, 7A1142
NAGATAKE, K: Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, 12A435
NAGATAKI, S: Study on the characterization of silica fume and the evaluation of properties of concrete containing silica fume (Japanese), 2T414
- Evaluation of the effect of surface coatings through the diffusion process of chloride ion in concrete (Japanese), 2A752
- Study on durability of surface coatings performed on an existing concrete structure (Japanese), 2A765
- Effect of size distribution of powders on yield value and viscosity of mortar (Japanese), 9A525
- Quantative estimation of steel corrosion in mortar due to carbination (Japanese), 9A923
NAGATANI, K: Designing a behavior of a mobile robot equipped with a manipulator to open and pass through a door, 11T371
NAGATI, MG: Multipoint approach for aerodynamic modeling in complex flowfields, 5A1009
- Validation of a multipoint approach for modeling spin aerodynamics, 5T1021
NAGATOMO, M: Approach to develop space solar power as a new energy system for developing countries, 8A1381
NAGAYA, K: Design formulae for a plate type magnetic damper with alternative magnetic poles, 1A119
- Stress-strain model for reinforced concrete columns confined by lateral reinforcement (Japanese), 2A763
NAGAYA, T: Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, 7A1040
NAGAYAMA, K: Lateral capillary interaction between particles protruding from a spherical liquid layer, 2A922
NAGEM, RJ: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7
- Stress and strain analysis in molecular dynamics simulation of solids, 12A95
NAGENDRA, S: Improved genetic algorithm for the design of stiffened composite panels, 4A557
- Composite sandwich-structure optimization with application to satellite components, 8A708
- Derivative based approximation for predicting the effect of changes in laminate stacking sequence, 12A810
NAGESWARA RAO, B: Applicability of the energy method to nonlinear vibrations of thin rectangular plates, 4T166
- Effect of pressure gradient on MHD boundary layer over a flat plate, 5A978
- Fracture behavior of a high strength medium carbon low alloy steel, 6A650
- Nonsimilar MHD boundary layer flow near an asymmetric plane stagnation point, 8A994
NAGHDI, AK: Laminar flow heat transfer in a cylinder with circumferential tubes, 10A1257
- Thermal stresses in a cylinder with longitudinal circular cylindrical cutouts, 12A1277
NAGHDI, PM: Restrictions on nonlinear constitutive equations for elastic shells, 1A602
NAGHSHINEH, K: Reduction of sound radiated from vibrating structures via active control of local volume velocity, 6A247
NAGORKO, W: Wave propagation in periodically laminated composites, 1A203
NAGORNOV, SA: Three-phase fluidized bed for quenching steel parts, 10A1421
NAGUBAI, DI: Multifrequency shielding behavior of cylindrical overburden covering concentric elongated ore deposits, 3A1292
NAGULESWARAN, S: Vibration of a "complete" Euler-Bernoulli beam of constant depth and breadth proportional to axial coordinate raised to a positive exponent s, 4A161
- Vibrations of a "stiff" gravity pendulum with a particle bob, 9A191
- "Direct" solution for the free vibration of a hanging uniform cord with a particle tip mass, 10T158
NAGY, A: Determination of the gasket load drop at large-size welding neck flange joints in the case of nonlinear gasket model, 10A955
NAGY, PB: Ultrasonic assessment of Poisson's ratio in thin rods, 3A123
- General study of axisymmetric waves in layered anisotropic fibers and their composites, 7A234
- Local variations of slow wave attenuation in air-filled permeable materials, 7A335
NAGY, S: Prediction of the minimum miscibility pressure of nitrogen-oil and lean gas-oil miscibility, 9A1412
NAGY, T: Effects of Hall currents and Coriolis force on Hartmann flow under general wall conditions, 5A979
NAHLE , A: Application of x-ray techniques to studies of corrosion and protection - Part II: Experimental x-ray diffraction measurements, 2A589
NAHLE, A: Application of x-ray techniques to studies of corrosion and protection - Part I: Review and literature survey, 2A588
NAHLE, AH: Phosphating of steel and the effects of galvanic coupling to zinc and zino-based coatings, 2A806
NAHTA, R: Crack spacing in brittle films on dissimilar planar and axisymmetric elastic substrates, 2A659
NAIDU, NR: Vibrations of initially stressed uniform beams on a two-parameter elastic foundation, 2A124
NAIDU, PS: Source localization in a partially known shallow-water channel, 3A260
NAIDU, SV: Non-Darcy effects in natural convection heat transfer in a vertical porous annulus, 11T1156
NAIK, RA: Failure analysis of woven and braided fabric reinforced composites, 6A664
NAIMI, M: Calculation method for developing turbulent flow in rectangular ducts of arbitrary aspect ratio, 1A1081
NAIR L, S: Stability of laminated composite plates subjected to various types of in-plane loadings, 4A575
NAIR, PS: Two dof modeling of pre-cracked beams under impact, 7A851
NAIR, PVN: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237
NAIR, S: Analysis of flow instabilities and their role on critical heat flux for two-phase downflow and low pressure systems, 3A1081
NAIR, SS: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
NAIRN, JA: Toughness of interfaces from initial fiber-matrix debonding in a single fiber composite fragmentation test, 4A739
- Comparison of several fracture mechanics methods for measuring interfacial toughness with microbend tests, 5A671
NAITO, K: Periodic stability of nonlinear flexible systems with damping, 4T334
NAJAFI, K: Bent-beam strain sensors, 11A347
NAJAFIAN, G: Review of the probabilistic description of Morison wave loading and response of fixed offshore structures, 1A261
NAJIB, K: Decoupled algorithm for solving a finite element problem for the approximation of viscoelastic fluid flow, 5T20
NAJJAR , FM: Simulations of the unsteady separated flow past a normal flat plate, 2A951
NAJJAR, SR: Nonlinear analysis for 3D steel frames in fire conditions, 5A731
NAJJAR, YM: Seepage design charts for flat bottom dams resting on heterogeneous media, 2A1216
- Identification of compaction characteristics by Neuronets, 10A653
NAJJAR, YS: Temperature and soot concentration in a high soot density flame, 7A1256
NAJJAR, YSH: Modeling of waste heat recovery by looped water-in-steel heat pipes, 1A1284
- Enhancement of performance of gas turbine engines by inlet air cooling and cogeneration system, 5A1276
- Relative effect of pressure losses and inefficiencies of turbomachines on the performance of the heat-exchange gas turbine cycle, 12A1177
NAJMOSSADAT, SMR: Mechanical design of a new tooling mechanism with on-line controllability of inclination angle, 3A854
NAJOUA, S: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098
NAKABAYASHI, H: Generalized Miner's number and probability of fatigue failure of concrete subjected to variable cyclic loads (Japanese), 2A574
NAKABAYASHI, K: Flow-history effect on higher modes in the spherical Couette system, 1A1073
- Low Reynolds number fully developed 2D turbulent channel flow with system rotation, 11A960
NAKABEPPU, O: Theoretical and experimental studies on the pseudo-dropwise condensation of a binary vapor mixture, 8A1143
NAKADA, M: Loading rate and temperature dependence of flexural behavior of unidirectional pitch-based CFRP laminates, 1A558
- Influence of stress ratio on fatigue behavior in the transverse direction of unidirectional CFRPS, 2A579
- Evaluation of physical aging on creep deformation of epoxy resin (Japanese), 6A624
- Temperature dependence of fluxural static strength of pitch-PAN hybrid unidirectional CFRP, 7A557
- Time and temperature dependence of the tensile strength of conical shaped FRP joints using polymeric adhesives (Japanese), 12A554
NAKAGAWA JR, R: Note on a vertical water-jet emanating downwards from a slit in the air, 9A1157
- Novel oscillation phenomenon of the water rivulet on a smooth hydrophobic surface, 9A1178
NAKAGAWA, F: Two-dimensional thermal stress analysis of surface mount joints under uniform temperature change, 3A1170
NAKAGAWA, H: Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
NAKAGAWA, K: Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), 4T822
- Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), 4A666
- Study on two-phase flow instability in parallel multi-channels, 7A1116
- Introduction of stress functions around a circular interface crack between dissimilar materials, 8A667
- Study on optimization of power transmission pylons by minimization of the square sum of the natural periods, 9A894
- Pulse transmission system for measuring wave propagation in soils, 9A279
- Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), 10A680
NAKAGAWA, M: Hydrodynamic theory of compressible SmC× liquid crystals, 7A1041
NAKAGAWA, T: Longitudinal and transverse variations of the bed shear stress on the wetted perimeter of a sloped rectangular open channel in a hydraulic jump, 2A849
- Vortex shoddings from eight prisms having different cross-sections but a common height in transonic flows, 2A904
- High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
- Bayesian analysis of fatigue life distribution including censored data (Japanese), 9A761
NAKAGAWA, TMS: Note on a vertical water-jet emanating downwards from a slit in the air, 9A1157
- Novel oscillation phenomenon of the water rivulet on a smooth hydrophobic surface, 9A1178
NAKAGIRI, S: Design change to realize homologous deformation, 3A755
- Optimization of frame topology using boundary cycle and genetic algorithm, 10A1026
- Hornology design for eigenvector of bending vibration using FEM, 12A192
NAKAGOMI, Y: Behavior of a tapered hub flange with a bolted flat cover in transient temperature field, 7A1025
NAKAHASHI, K: Numerical Developments in CFD - 1995 ASME/JSME Fluids Eng Conf, 1N4
NAKAI, H: Experimental study on buckling and ultimate strength of thin-walled stiffened box members (Japanese), 1A651
NAKAI, M: Near field sound radiation from simply supported rectangular plates, 1A325
- Band brake squeal, 10A1004
NAKAI, S: Size measurement of fine powders using the differential mobility analyzer - Application of boiling method for aerosol generation, 12A1335
NAKAJIMA, A: Simplified estimation procedure of degree of imperfection for composite girder with partial interaction (Japanese), 11A762
- Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), 11A752
NAKAJIMA, H: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753
NAKAJIMA, K: Effect of humidity on the friction and wear properties of Sn, 5T766
- Depolymerization mechanism for a large reflector: Thermal-design verification using flight data, 5A743
- Wave approach for control of orientation and vibration of a flexible structure, 11A338
NAKAJIMA, M: Initiation and growth characteristics of corrosion pits in steels (Japanese), 4T679
NAKAJIMA, N: Photoforming applied to fine forming, 6A588
NAKAJIMA, S: Two dimensional unsteady aerodynamic force measurement by combination of complex modal information under wind action (Japanese), 11A1037
NAKAMACHI, E: Static-explicit elastic plastic FE simulation and virtual manufacturing of sheet metal forming, 11A590
- Elastic and crystalline-viscoplastic FE analysis of dynamic deformation of sheet metal, 11A584
- Dynamic-explicit elastic plastic FE simulation of hemispherical punch-drawing of sheet metal, 11A580
NAKAMATO, T: Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, 12A923
NAKAMICHI, K: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
NAKAMOTO, T: Microforming by photopolymerization (Japanese), 4T657
- Manufacturing of high aspect ratio micro structures using UV sensitive photopolymer, 12A703
NAKAMURA, A: Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), 7A763
NAKAMURA, G: Nonuniqueness theorem for an inverse boundary value problem in elasticity, 9A487
NAKAMURA, H: Spatial correlation of earthquake ground motion based on dense array records (Japanese), 1T1381
- Gear grinding by vitrified-bonded CBN wheel of screw shape (Japanese), 2T551
- Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), 2A775
- Study on earth pressure at equilibrium and horizontal subgrade reaction coefficient of an earth wall embedment in braced excavation work on clayey soil (Japanese), 10A678
- Nonlinear FE analysis of a reinforced concrete cooling tower shell, 11A531
- J-integral approach to mode III fatigue crack propagation in steel under torsional loading, 11A626
NAKAMURA, I: Progress in the research of the dynamical structure in wall turbulence, 1A1084
NAKAMURA, K: Electrostatic wobble motor (Japanese), 3T397
- Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, 4A902
- Error evaluation of the structural intensity measured with a scanning laser Doppler vibrometer and a k-space signal processing, 10A139
NAKAMURA, M: Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, 1A755
- Optimum design of transient heat conduction fields using BE inverse analysis, 3A852
- Development of novel material shield-cuttable tunnel-wall system (Japanese), 4T821
- Study for ultra precision processing of silicon wafer by lapping stone: By new lapping stone instead of free abrasive lapping process (Japanese), 4A661
- Convergence of attractors for the simplified magnetic Benard equations, 8A80
- Neural network approach to detection of changes in structural parameters, 10A399
NAKAMURA, N: Studies of super-smooth polishing on aspherical surfaces, 1A739
- Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), 9T736
NAKAMURA, O: Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), 3A341
NAKAMURA, S: Numerical Analysis and Graphic Visualization with MATLAB, 6N5
- Finite element analysis of Saint-Venant end effects in micropolar elastic solids, 1A562
- Proposal of vector frequency response function of ground based on vector spectrum and its application (Japanese), 1A1380
- Field observation of water surface oscillation in a pool-weir fishway (Japanese), 3A202
- Application of a non-equilibrium suspended sediment model into the Tenryu-Gawa river (Japanese), 3T883
- Laminar boundary layer flow of power-law fluids over wavy surfaces, 9A1136
NAKAMURA, T: Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, 1T257
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, 1T265
- Bimaterial plane with elliptic hole under uniform tension normal to the interface, 2A641
- New design technique for pre-stressed loads of a cable-stayed bridge, 4A820
- Branching problem of crack and debonding at an end of stiffenod boundary for thin plate bending (Japanese), 5A502

- Development of incremental sheet metal forming system using elastic tools: Principle of forming process and formation of some fundamentally curved shapes, 9A700
- Effect of a microdefect ahead of a main crack on strength of solids: Exact solution to the main crack-microdefect interaction model, 10A771
- Stress analysis of bimaterial strip with debondings under tension, 10A774
- Creep-fatigue damage assessment by subsequent fatigue straining, 11A652
- Development of an automatic scraping machine with recognition for bearing of scraped surfaces - 2nd Report: Development of a scraping motion mechanism (Japanese), 11A607

NAKAMURA, Y: Capturing of transition by the RNG based algebraic turbulence model, 4A1022
- Study of MHD equilibrium and stability for heliotron-torsatron with helical axis, 4A1098
- Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, 5A1109
- Flutter of coupled bending-torsion systems with a frequency ratio close to one, 8T226
- Vortex shedding from bluff bodies and a universal Strouhal number, 9T330
- Research and development of intelligent earthquake disaster prevention systems UrEDAS and HERAS (Japanese), 9T419
- Vortex shedding from bluff bodies with splitter plates, 9A1160
- Incompressible flow solver of arbitrarily moving bodies with rigid surface, 11T906

NAKANISHI, Y: Optimization of frame topology using boundary cycle and genetic algorithm, 10A1026
- Fatigue strength of drilled holes under membrane and plate-bending stresses (Japanese), 11A641

NAKANO, M: Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, 6A844
- Finite element analysis of dynamic behavior of viscoelastic materials using FFT, 7A19

NAKANO, T: Two scaling regimes in 2D turbulence, 3A968
- Notes on the statistical characterization of rubbing surfaces, 6T824

NAKANO, Y: Improvement of in-situ circularity measurement technique based on three-point method and development of n-point method, 1A859
- Two-dimensional thermal stress analysis of surface mount joints under uniform temperature change, 3A1170
- Method for inspection of spiral bevel gears in Klingelnberg cyclo-palloid system, 9A998

NAKAO, T: Experimental study of flexural vibration of wooden beams by Levinson beam theory, 5T118
- Anisotropic shear modulus of wood-based composite (Japanese), 12T531

NAKAOKA, T: Performance analysis of an OTEC plant and a desalination plant using an integrated hybrid cycle, 11A1431

NAKAQAWA, K: New design technique for pre-stressed loads of a cable-stayed bridge, 4A820

NAKASA, K: Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), 9A774

NAKASE, H: Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), 5T1332

NAKASE, Y: Unsteady fluid forces on a blade in a cross-flow turbine, 1A259

NAKASHIBA, F: Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295

NAKASHIMA, M: Pseudo-dynamic testing using conventional testing devices, 3A1340
- Branching problem of crack and debonding at an end of stiffened boundary for thin plate bending (Japanese), 5A502
- Strain-hardening behavior of shear panels made of low-yield steel - I: Test, 6A738
- Strain-hardening behavior of shear panels made of low-yield steel - II: Model, 6A739
- Numerical and experimental study of the propulsive speed of the three-joint bending propulsion mechanism, 9A1456
- Energy input and dissipation behavior of structures with hysteretic dampers, 10A1437

NAKASUKA, S: Autonomous generation of reflexion-based robot controller using inductive learning, 12A450

NAKATA, A: Effects of weir plate inclination angle on flow-induced vibrations of long-span, shell-type gates, 12A1020

NAKATA, K: Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, 9A531

NAKATA, M: Evaluation of the effect of rock bolts based on field measurement results (Japanese), 7A716
- Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293

NAKATANI, M: Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, 5A1127
- Study on strength characteristics of Si_3N_4 coil springs, 11A814

NAKATSUCHI, Y: Influence of joints and soft tissue on the natural frequency of the human tibia using the impulse response method, 3A1401

NAKATSUJI, T: Noise reduction characteristics of porous elastic road surfaces, 12A297
- Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295

NAKAYAMA, A: PC-Aided Numerical Heat Transfer and Convective Flow, 7R28

NAKAYAMA, H: Evaluation of fatigue life of adhesively bonded CFRP pipe-steel rod joints, 1A755

NAKAYAMA, J: Scattering and diffraction of a plane wave by a randomly rough half-plane, 3A187

NAKAYAMA, K: Exoelectrons and tribology, 10T962
- Effect of additives on friction, wear, and iron fluoride formation under perfluoropolyether fluid lubrication in vacuum and various atmospheres containing oxygen, 10A985
- Tribocharging and friction in insulators in ambient air, 12A897

NAKAYAMA, T: Eulerian FEM for time-dependent free surface problems in hydrodynamics, 7A27

NAKAYAMA, W: Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, 8A1221
- Conjugate heat transfer from a single surface-mounted block to forced convective air flow in a channel, 11A1107

NAKAYASU, F: Accurate probe-response calculation in eddy current NDE by FEM, 9A43

NAKAZATO, M: Environmental issues of additives (3): Effect of engine oil additives on emissions control equipment, 10T1457

NAKAZATO, T: High-temperature properties of stainless steel for building structures, 10A935

NAKAZAWA, H: Study on human-oriented interface for CNC machine tools, 12A1487

NAKAZAWA, M: Numerical identification of secondary buckling phenomena of elastic rectangular plate under pure bending (Japanese), 1A658

NAKAZAWA, S: Prediction of high temperature metal matrix structural material failure using a massively parallel computer, 5A483

NAKKEN, T: Dynamics of coaxial torsional resonators consisting of segments with different radii, material properties, and surrounding media, 1A960

NAKONIECZNY, A: Mechanical properties of surface strengthened materials and designing of surface layers, 9A984
- Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, 9A986

NAKORCHEVSKIY, AI: Nonequilibrium effects and critical regimes during the outflow of boiling liquids, 1A1235

NAKORYAKOV, VE: Gas-liquid bubbly flow in vertical pipes, 12A1087

NAKRA, BC: Dynamics of rotor shaft system on flexible supports with gyroscopic effects, 4T185
- Reanalysis of plates modified by free damping layer treatment, 4A171
- Stability characteristics of rotating systems with journal bearings on viscoelastic support, 12A103

NALE, TA: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164

NALIVAYKO, AG: Method of deflecting an axisymmetric jet propagating on the upper wing surface with a flap, 10T1199

NALLURI, C: Hydraulic Structures, Second Edition, 10N20

NAM, CHANGHO: Optimal design of composite lifting surface for flutter suppression with piezoelectric actuators, 3A224

NAM, CHENGHO: Optimal sizing and placement of piezo-actuators for active flutter suppression, 11A739

NAM, HD: Adaptive active attenuation of noise using multiple model approaches, 2A228

NAM, HO YUN: Evaluation of a higher-order bounded convection scheme: 3D numerical experiments, 1A1221

NAM, S-R: Development of a micro-positioning grinding table using piezoelectric voltage feedback, 4A645

NAM, SEONG WON: Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, 7T1143

NAMACHCHIVAYA, NS: Global dynamics of parametrically excited nonlinear reversible systems with nonsemisimple 1:1 resonance, 6A102
- Some aspects of destabilization in reversible dynamical systems with application to follower forces, 10T115

NAMBA, Y: Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), 3A632
- Single point diamond turning of chalcone organic nonlinear optical crystals for second harmonic generation (Japanese), 4T660
- History and trend of grinding technology in Japan (Japanese), 7T752

NAMBU, M: Drift wave instability and anomalous particle transport in collisional plasmas with high-Z dust impurities, 2A997

NAMBURU, RR: Effective data parallel self-starting explicit methodology for computational structural dynamics on the connection machine CM-5, 2A1126
- Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), 4A1213

NAMIESNIK, K: Comparison between strictly conical and paraboloidal flow fields in the presence of angular momentum, 9A1103

NAMIKI, N: Removal of fine particles from smooth flat surfaces by consecutive pulse air jets, 4A1289

NAMM, RV: Uniqueness of the smooth solution in the static problem with a Coulomb law of friction and two-sided contact, 2A801

NANAI, L: Fractal based surface characterization of laser treated polymer foils, 3A642

NANAKORN, P: Fracture mechanics-based design method for SFRC tunnel linings, 9A790

NANASI, T: Another look at the propagation constant, 1A118

NANBA, T: Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, 10A560

NANCE, RP: Parallel Monte Carlo simulation of 3D flow over a flat plate, 1A1017

NANDAKUMAR, K: Instability and transitions of flow in a curved square duct: The development of two pairs of Dean vortices, 11A964

NANDAKUMAR, N: Semi-empirical approach to predict shear strength of ferrocement, 1A892
- Quasi-empirical approach to shear strength of ferrocement trough section elements, 4A526

NANJUNDAPPA, B: Burner wake stabilized gas jet flames in cross-flow, 7A1311

NANJYO, A: Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), 5A688

NANOUSIS, ND: Unsteady hydromagnetic thermal boundary layer with suction, 7T1145

NANSTEEL, MW: Buoyancy- and pressure-driven motion in a vertical porous layer: Effects of quadratic drag, 8A1088

NANTHIKESAN, S: Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, 4A705
- Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, 4A16

NAOUSS, WA: Seepage design charts for flat bottom dams resting on heterogeneous media, 2A1216
- Identification of compaction characteristics by Neuronets, 10A653

NAPIER, JAL: Spectral multipole method for efficient solution of large-scale BE models in elastostatics, 4A68

NAPOLITANO, M: Cell-vertex adaptive Euler method for cascade flows, 4A973
- Critical analysis of multi-dimensional upwinding for the Euler equations, 6A895

NAPOLITANO, MR: On-line learning neural-network controllers for autopilot systems, 3A390
- Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349

NAPPA, L: Thermal stresses in microstretch elastic cylinders, 3A1168

NAQWI, A: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31

NAQWI, AA: Adaptive phase-Doppler system and its applications including particle sizing in submicron and nanometer ranges, 9A1250

NARAHARA, H: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541

NARAIN, A: Modeling of an interfacial shear for gas liquid flows in annular film condensation, 12A1234

NARANG, PP: Material parameter selection in polyester fiber insulation for sound transmission and absorption, 1A339

NARASAKA, T: Simultaneous measurements of flow rates and particle concentrations in heterogeneous solid-water two-phase flows by means of one venturi, 1T1033

NARASIMHA, R: Experimental study of a jet with local buoyancy enhancement, 1A1063
- Stability of spatially developing boundary layers in pressure gradients, 4A1024
- Energy balance in the Ramdas layer, 8A1365

NARASIMHAN, K: Development of a graded TiCN coating for cemented carbide cutting tools: A design approach, 3A834

NARASIMHAN, R: Finite element simulation of wedge indentation, 2A373
- Finite element simulation of mode I dynamic, ductile fracture initiation, 6A594
- Finite element analysis of Mode III quasi-static crack growth at a ductile-brittle interface, 9A848
- Asymptotic and FE analyses of mode III dynamic crack growth at a ductile-brittle interface, 12A764

NARASIMHAN, S: Performance bounds on acoustic thermometry of ocean climate in the presence of mesoscale sound-speed variability, 6A266

NARASIMHAN, TN: Finite element method: Is weighted volume integration essential?, 4T19

NARAYAN, A: Density dependence of fluid properties and non-Newtonian flows: The Weissenberg effect, 4A879

NARAYAN, SH: Residual stress-driven delamination in deposited multi-layers, 2A600

NARAYANAN, AK: Mixing pressure-rise parameter for effect of nozzle geometry in diffuser-ejectors, 8A955

NARAYANAN, CC: Analysis of mass transfer effects on the performance of journal bearings using micropolar lubricant, 3A1002

NARAYANAN, R: Hydraulic Structures, Second Edition, 10N20
- Analysis of mass transfer effects on the performance of journal bearings using micropolar lubricant, 3A1002
- Development of hybrid method coupling moire interferometry and FE analysis, 12A786

NARAYANAN, S: Whole-body vibration exposure in Indian buses, 3A1409
- Optimal preview control of a two dof vehicle model using stochastic optimal control theory, 12A410

NARAYANAN, V: Systems for the prediction of process parameters, 6A578

NARAYANASWAMI, LL: Chaos in thermal pulse combustion, 5A1263

NARAYANSWAMI, N: Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, 6A948

NARBUT, MA: Antiplane deformation of an elastic wedge under action concentrated near the corner point, 2A364

NARCISO, J: Abrasive wear resistance of aluminum allot-ceramic particluate composites, 10A969

NARDUCCI, R: Sensitivity algorithms for an inverse design problem involving a shock wave, 1A243

NARENDRA, KS: Analysis of induction plasma deposition dynamics for control, 5A336

NARITA, Y: Optimal design by genetic algorithm for maximum fundamental frequency of laminated shallow shells, 12A173

NARIYUKI, Y: Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), 5A1327

NARKIEWICZ, J: Influence of induced velocity modeling on helicopter stability, 1A177

NARKIS, Y: Crack identification in a cantilever beam under uncertain end conditions, 8A107

NARUMO, T: Six-equation SFAV model for two-phase flow with correct propagating velocities of disturbances, 5A925

NARUSAWA, U: Buoyancy-induced laminar convective rolls in rectangular geometry, 1A1199

NARUSE, T: Large curvature effect on pulsatile entrance flow in a curved tube: Model experiment simulating blood flow in an aortic arch, 11A1465

NASALSKI, W: Variational estimation of soliton contribution to nonlinear propagation of Gaussians, 3A67

NASER, JA: Prediction of compressible subsonic flow through an axisymmetric exhaust valve-port assembly, 4A987

NASH, DFT: Approximate analysis of the 3D effects of diaphragm wall installation, 2T512

NASH, JD: Large scale planar laser induced fluorescence in turbulent density-stratified flows, 3A952

NASH, PT: Spall damage to concrete walls from close-in cased and uncased explosions in air, 5A613

NASH, T: Large reinforced concrete cylinders under external pressure, 11A757
- Large steel-concrete composite cylinders under external pressure, 11A758

NASH, WA: Hydrostatically Loaded Structures: The Structural Mechanics, Analysis, and Design of Powered Submersibles, 3R19

NASR-EL-DIN, HA: Dispersion in consolidated sandstone with radial flow, 1A1352

NASSAR, H: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191

NASSAR, M: Reflection characteristics of longitudinal waves in a semi-infinite cylindrical rod connected to an infinite viscoelastic stratum, 9A270
- Plastic deformation of a rigid floating plate: An analytical study, 10A538

NASUTI, F: Material-dependent catalytic recombination modeling for hypersonic flows, 6A1189
- Analysis of unsteady supersonic viscous flows by a shock-fitting technique, 12A1074

NATALE, G: Pressure and temperature dynamics in fluid-saturated porous-permeable rocks, 7A1362

NATALUKHA, IA: Self-oscillating regimes of nucleate, transition and film boiling, 11A1165

NATAN, B: Ignition of boron particles coated by a thin titanium film, 4A1250

NATARAJAN, K: Flexural vibration in a finite piezoelectric hollow cylinder of class 6mm, 6A510

NATARAJAN, PR: Prototype test on x-bracing panels using cold-formed lipped angles, 7A957

NATARAJAN, V: Surface heat transfer from a three-pass blade cooling passage simulator, 5A1146

- Heat transfer on the base surface of 3D protruding elements, 12A1211
NATARAJAN, VVR: Local measurements of velocity fluctuations and diffusion coefficients for a granular material flow, 6A1220
NATEGHI-A, F: Seismic strengthening of eight-story RC apartment building using steel braces, 2A1252
- Retrofitting of earthquake-damaged steel buildings, 4A1336
NATERER, GF: PHASES model for binary-constituent solid-liquid phase transition - Part 1: Numerical method, 1A1215
- PHASES model for binary-constituent solid-liquid phase transition - Part 2: Applications, 1A1216
NATH , Y: New approach to evaluate the deflection of a thrust pad on an elastic support, 6T835
NATH, G: Viscoelastic fluid flow over a continuous stretching surface with mass transfer, 4T968
- Nonsimilar mixed convection flow of a non-Newtonian fluid past a vertical wedge, 5A1135
- Unsteady compressible flow due to relative rotation and translation of a viscous fluid on a disk, 8A919
- Boundary layer development on a continuous moving surface with a parallel free steam due to impulsive motion, 10A1245
- Unsteady 3D flow due to a stretching flat surface, 11T884
NATH, SK: Three dimensional seismic modeling by FE condensation technique, 5A1311
NATKE, HG: Properties of various residuals within updating of mathematical models, 1A211
- Holistic dynamics of systems, 8A96
- Modeling of energy transforming and energy recycling systems, 10A1446
NATORI, M: Helically curved unfurlable structural elements: Kinematic analysis and laboratory demonstration, 8AR39
NATORI, MC: Numerical solution of large deformation problems involving stability and unilateral constraints, 5A425
- Motion control of free-floating variable geometry truss - Part 1: Kinematics, 12A386
- Motion control of free-floating variable geometry truss - Part 2: Inverse kinematics, 12A387
NATSUAKI, Y: Vibration, buckling and dynamic stability of a non-uniform rectangular cantilever plate with thermal gradient resting on a Pasternak foundation (Japanese), 1A662
NATTERER, F: Propagation-backpropagation method for ultrasound tomography, 4A777
NATUSHKIN, VF: Theory of aeroinertial rotation and spin of airplanes, 11A335
NAUMA, SF: US and Russian thermal control coating results in low Earth orbit, 7A992
NAUMENKO, MV: System of stabilizing the height of motion of surface effect vehicle over waved sea, 8A321
NAUMOV, MB: Thermal and hydraulic characteristics of microchannel porous structures, 10A1270
NAVA, FA: Major earthquakes in Mexicali Valley, Mexico, and fluid extraction at Cerro Prieto Geothermal Field, 11A1345
NAVA, R: Effect of dielectric constant of the liquid phase of electrorheological Fluids, 7A1136
NAVON, IM: Parallel block preconditioning techniques for the numerical simulation of the shallow water flow using FEMs, 3A22
NAVRAT, P: Modeling software systems in configuration management, 9A128
NAVZENYA, VY: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
NAWROTZKI, P: Computational concepts in structural stability, 9A641
NAYAK, GC: Soft missile impact on rigid targets, 2A170
NAYFEH, AH: Nonlinear Oscillations - Wiley Classics Library Series, 7R5
- Nonlinear response of a taut string to longitudinal and transverse end excitation, 1A145
- Direct methods for constructing nonlinear normal modes of continuous systems, 3A98
- Nonlinear normal modes of a cantilever beam, 5A124
- General study of axisymmetric waves in layered anisotropic fibers and their composites, 7A234
- Effect of a hump on the stability of subsonic boundary layers over an airfoil, 11A953
NAYFEH, SA: Nonlinear response of a taut string to longitudinal and transverse end excitation, 1A145
- Nonlinear normal modes of a cantilever beam, 5A124
NAYLOR, D: Free convection in a horizontal enclosure partly filled with a porous medium, 3T1072
NAYLOR, S: Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349
NAZARENKO, VM: Study of failure of the systems of half-restricted elastic material with a potential of harmonic type (Russian), 3A677
- Fracture of infinite compressible composite containing finite cylindrical crack under the conditions of axial compression, 9A791
NAZARETH, JL: Linear and Nonlinear Conjugate Gradient-Related Methods - Proc of AMS-IMS-SIAM Summer Res Conf, Univ of Washington, July 1995, 10N4
NAZARKO, W: Investigation of reinforcing bars from steel 34GS subjected to bending (Polish), 3A529
NAZAROV, AD: Effect of increasing mass of crankpin parts on crankshaft bearings wear and engine life, 6A793
NAZAROV, DV: Investigation of combined scheme of designing air cushion, 8A1022
NAZAROV, GI: Torsion of cylindrically anisotropic 2D inhomogeneous solids of revolution, 2A359
NAZAROV, SA: Weight functions and invariant integrals of higher order, 3A680
NAZAROV, VE: Nonlinear interaction of acoustical waves due to cracks and its possible usage for cracks detection, 1AR55
NDON, UJ: Thermal expansion of concretes: Case study in Iowa, 3A491
NDUMBARO, P: Analysis of Cable and Catenary Structures, 5R15
NEAGU, CR: Electrochemical microactuator: Principle and first results, 11A359
NEALE, KW: Behavior of initial texture components during the plane strain drawing of FCC sheet metals, 6A560
NEALE, MJ: Tribology Handbook, Second Edition, KN30
NEARCHOU, AC: Application of genetic algorithms to point-to-point motion of redundant manipulators, 7A439
- Collision-free continuous path control of manipulators using genetic algorithms, 8A365
NEARY, VS: Numerical investigation of laminar flows through 90-degree diversions of rectangular cross-section, 8A952
NEBBELING, C: Topological interpretation of the surface flow visualization of conical viscous-inviscid interactions, 12A1107
NEBYLOV, AV: System of stabilizing the height of motion of surface effect vehicle over waved sea, 8A321
NECSOIU, T: Non-cooled (Hg, Cd) Te detectors of 10.6 μm radiation in direct and heterodyne detection, 3A1145
NEDAR, RGD: Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, 11A1070
NEDELEC, J-C: New system of boundary integral equations for plates with free edges, 1A609
NEDEV, AG: Approach to the modeling of contact friction during rolling, 3A596
- Numerical analysis of steady-state rolling problem, 4T632
NEDJAR, B: Damage, gradient of damage and principle of virtual power, 6A632
NEE, AYC: Process modeling and formulation for the development of an intelligent set-up planning system, 4A418
- Intelligent planning aid for the design of progressive dies, 7A723
NEEDHAM, DJ: Stable pattern and standing wave formation in a simple isothermal cubic autocatalytic reaction scheme, 2A1167
- Propagation of isothermal reaction-diffusion waves in coupled autocatalytic systems, 3A1197
NEEDLEMAN, A: Discrete dislocation plasticity: A simple planar model, 2A404
- Three-dimensional analysis of dynamic ductile crack growth in a thin plate, 8A675
- Numerical simulations of dynamic interfacial crack growth allowing for crack growth away from the bond line, 8A674
- Numerical simulations of dynamic crack growth along an interface, 9A842
- Mechanics and physics of layered and graded materials: Papers from the Engineering Foundation Conference on Mechanics and Physics of Layered and Graded Materials held in Davos, Switzerland, August 21-25, 1995, 11A487
NEEL, MC: Periodic solutions for differential equations of order three, with application to heat-flux induced convection, 4A1156
NEELAKANTAN, NR: Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, 7A562
NEFEDOV, SV: Prediction of the growth of internal fatigue cracks, 6A677
NEGAHBAN, M: Study of thermodynamic restrictions, constraint conditions, and material symmetry in fully strain-space theories of plasticity, 3A462
- Simulation of mechanical response in crystallizing polymers: Crystallization under a constant shear force, 3A876
NEGISHI, M: Studies of super-smooth polishing on aspherical surfaces, 1A739
- Studies of super-smooth polishing on aspherical surfaces (Japanese), 4T647
- Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), 9T736
NEGIZ, A: Three-Dimensional transient heat transfer from a buried pipe: Solidification of a stationary fluid, 1A1262
- Stochastic modeling of a new spectrometer, 4A1290
NEGLINSKII, VV: Review of maintenance data on wheel-flange wear, 5A810
NEIDLINGER-WILKE, C: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $T_{GF\beta}$-release in response to cyclic strain, 5A1373
NEIGHBORS, TH: Acousto-optic imaging of focused ultrasound pressure fields, 1A355
NEILAND, V YA: Efficiency of shock wave scramjet and shock-free scramjet, 10A1404
NEILSEN, MK: Analytical and numerical tests for loss of material stability, 10A640
NEIMARK, YI: Painleve paradoxes revisited, 3A826
- Painleve paradoxes and the dynamics of a brake shoe, 4A103
NEIMITZ, A: Controversies in dynamic fracture mechanics, 9A836
NEISE, W: Free-field sound power levels of open-inlet and open-outlet fans and comparison with in-duct measurements, 1A298
NEISHTADT, AI: Phase portraits of the Lorenz system for large Rayleigh numbers, 7A112
NEITTAANMAKI, P: Dual FE approach for stresses of elasto-perfectly plastic bodies, 3A478
NEJAD, AS: Near-field study of a turbulent freejet and velocity bias effects, 6A969
NEKORKIN, VI: Kink-dynamics of the perturbed sine-Gordon equation, 10A107
NELE, L: Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, 9A708
NELIS, M: Calculation of the characteristics of a bearing under steady and transient conditions (French), 6A1044
NELISSE, H: Panel dynamic response to a reverberant acoustic field, 2A218
NELSEN, CE: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279
NELSON , PA: Optimum drag balance for boundary-layer suction, 9T1138
NELSON, BJ: Vision resolvability for visually servoed manipulation, 7A453
NELSON, HF: Predictions of low aspect ratio missile aerodynamics, 1A1020
- Particle drag coefficient in solid rocket plumes, 1T1002
NELSON, JJ: Mass conservative least-squares FEM for the Stokes problem, 5A14
NELSON, ME: Sense organs of insect legs and the selection of sensors for agile walking robots, 8A1413
NELSON, PA: Feedback control of sound radiation from a plate excited by a turbulent boundary layer, 3A285
NELSON, R: Issues in CHF modeling - The need for new experiments, 3A1078
NELSON, RB: Parallel elastoplastic models of inelastic material behavior, 2A399
- Three-dimensional FE for analyzing thin plate-shell structures, 3A546
NELSON, RC: Double-delta-wing aerodynamics for pitching motions with and without sideslip, 5A991
- Modified, discrete-vortex method for studying wing-loading effects on wake dynamics, 7A1156
NELSON, VK: Flexural vibration of piezoelectric composite hollow cylinder, 6A511
NEMAT-NASSER, S: Bounds on elastic moduli of composites, 3A481
- Hoop stress intensity factor and crack-kinking in anisotropic brittle solids, 9A799
- Universal integration algorithm for rate-dependent elastoplasticity, 10A563
- Overall properties of elastic-viscoplastic periodic composites, 11A458
- Dynamic Bauschinger effect, 12A521
- Energy-release rate and crack kinking in anisotropic brittle solids, 12A761
NEMES, JA: Use of a rate-dependent continuum damage model to describe strain-softening in laminated composites, 5A475
NEMES, L: Comparison of the bionic, fractal and holonic manufacturing system concepts, 10A499
NEMETH, MP: Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, 1A661
- Frequency-load interaction of geometrically imperfect curved panels subjected to heating, 6A134
- Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, 10A196
NEMISH, YN: Spatial stress-strained state of rectangular orthotropic plates of variable thickness under bending, 7T628
NEMOTO, H: Numerical solution of water quality equation for rivers (Japanese), 3A887
NEMOTO, M: Machine parts visual inspection system using fuzzy-neural network (Japanese), 7A477
NEMTCHINOV, VV: Efficient application of photoelasticity in nuclear power structures design (French), 7A876
NEMTSOV, BE: Coherent mechanism of sound generation in vapor condensation, 9A347
NENAYDYKH, B: Nozzle-geometry effects in liquid jet impingement heat transfer, 12A1262
NENICKA, V: Investigations of plasma jet oscillations using FFT and resulting phase angle relations, 11A1011
NEPOMILUEV, VV: Investigation of tool wear my means of similarity theory, 6T798
NEPPACH, C: Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349
NEREM, RM: Viscoelastic properties of cultured porcine aortic endothelial cells exposed to shear stress, 8A1430
NERLE, UV: Adhesion improvement and intrinsic stress decrease in cerium oxide thin films by chopping, 9A1032
NERNEY, S: Limits to extensions of Burgers' equation, 11A189
NERO, RW: Low-frequency acoustic scattering model for small schools of fish, 6A243
NERUBAYLO, BV: Investigation of stresses in composite shells on the basis of methods of asymptotic synthesis due to various local actions (Russian), 8A497
NERUBAYLO, TB: Investigation of stresses in composite shells on the basis of methods of asymptotic synthesis due to various local actions (Russian), 8A497
NESENCHUK, AP: Heat exchange between a surface and an oscillating layer of a moist material, 1A1365
NESIS, EI: Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, 1A1281
NESIS, SE: Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, 1A1281
NESSYAHU, H: Convergence rate of approximate solutions to weakly coupled nonlinear systems, 9A302
NESTEROV, AP: Analysis of necessary condition of looping in towed systems, 9A567
NESTEROV, SV: Numerical-analytical method for studying natural vibrations of nonuniform rods, 10A153
NETHERCOT, DA: Required rotations and moment redistribution for composite frames and continuous beams, 1A918
- Semirigid joint action and the design of nonsway composite frames, 4A870
- Composite connections in steel and concrete - Part 2: Moment capacity of end plate beam to column connections, 8A766
- Calculation of serviceability deflections for nonsway frames with semi-rigid connections, 11A771
NETHERCOT, PA: Nonlinear FE analysis of composite frames, 11A13
NETO , MF: Analysis of design methodologies towards developing a CAD system to computerize the product design conception stage (Spanish), 8A826
NETO, FL: Development of a tri-directional carbon fiber reinforced carbon composite for aerospace applications, 4A484
NETREBKO, VP: Cracks in fibrous composites: Determination of the stress intensity factor by the polarized-optical method (Russian), 8A638
NETT, CN: New method for computing delay margins for stability of linear delay systems, 2A252
- Simplified approach for control of rotating stall - Part I: Theoretical development, 4A1112
- Simplified approach for control of rotating stall - Part 2: Experimental results, 4A1121
- Control-oriented high-frequency turbomachinery modeling: General 1D model development, 5A1023
NETTLES, A: Low velocity impact damage in filament-wound composite pressure bottles, 11A186
NETTO, TA: Buckle arrestors for deepwater pipelines, 12A1436
NETTUNO, L: Field measurements and model calibration in avalanche dynamics, 3A1392
NETZER, E: Estimation and control of tethered satellite systems, 1T391
NEU, RW: Cyclic behavior of unidirectional and cross-ply titanium matrix composites, 12A518
NEUBAUER, A: Investigations on the influence of the addition of carbon dioxide on the production and properties of rapidly set wood-cement composites, 1A532
NEUBECKER, SR: Profile and frictional capacity of embedded anchor chains, 3A582
NEUBERGER, A: Tube expansion by internal fluid pressure with additional compressive stress, 12A676
NEUMANN, ML: Mapping nonsquare and unevenly spaced 2D SLDV data of an aircraft fuselage by using spatial DFT-IDFT techniques, 7A880
NEUMANN, S: Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
NEUMEISTER, J: Effect of fiber architecture on the mechanical properties of carbon-carbon fiber composites, 6A422
NEUROTH, N: Properties of Optical Glass - Schott Series on Glass and Glass Ceramics, 2N55
NEVALAINEN, M: Numerical investigations of 3D constraint effects on brittle fracture in SE(B) and C(T) specimens, 8A633

NEVE, RS: EHD augmentation of nucleate boiling at a Gewa-T surface, 11A1162
NEVES, MM: Generalized topology design of structures with a buckling load criterion, 3A758
NEVO, E: Tethering affects the mechanics of coronary capillaries, 8A1428
NEWAZ, GM: Damage Tolerance in Advanced Composites, 3R16
- Composites for the Pressure Vessel Industry - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N21
NEWBERGER, PA: Nonlinear shear instabilities of alongshore currents on plane beaches, 9A1171
NEWBURRY, DM: Semiempirical correlations of NO_x emissions from utility combustion turbines with inert injection, 11A1283
NEWELL, GC: Modeling flexible sheets for automatic handling and lay-up of composite components, 4T423
- Automating the manufacture of composite broadgoods, 7A759
- Automated manufacture of prepreg broadgoods components: A review of literature, 7A575
NEWFIELD, ME: Scanned- and fixed-wavelength absorption diagnostics for combustion measurements using multiplexed diode lasers, 8A1052
NEWLYN, HA: Simulation of the impact behavior of a package with discrete contents, 5A190
NEWMAN JR, JC: Fracture Mechanics, Volume 26, 11N28
NEWMAN, B: Model simplification and stability robustness with elastic flight vehicles, 5A312
- Strategic intercept midcourse guidance using modified zero effort miss steering, 6T320
NEWMAN, MG: Modeling creep failure in welded plates under uniaxial loading, 8A411
NEWMAN, MJ: Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
NEWMAN, PA: Sensitivity derivatives for advanced CFD algorithm and viscous modeling parameters via automatic differentiation, 11T910
NEWMAN, RC: Elasticity and fracture in particulate composites with strong and degraded interfaces, 10A792
NEWMAN, RL: Flight testing a general aviation head-up display, 7T1172
NEWMAN, RR: Rail Transportation, RTD-Vol 10 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N18
NEWMAN, ST: Methodology to develop EXPRESS data models, 7T478
NEWMANN, MM: LQ-optimization: A cautionary tale, 2A263
- Variational approach to the polynomial optimization of multivariable control with colored noise at the controller output, 3T329
NEWNES, LB: Flexible pharmaceutical powder production, 10A493
- Framework for modeling the coincident flow of workpieces and cutting tools, 10A503
NEWNHAM, P: Finite element analysis of triangular fins attached to a thick wall, 2A1108
NEWNHAM, RE: Zig-Zag piezoelectric actuators: Geometrical control of displacement and resonance, 7A425
NEWTON, C: Thermally-induced deformations of constrained and unconstrained orthotropic composite rings, 6A426
NEWTON, DV: Precision position control of piezoelectric actuators using charge feedback, 3A386
NEYLAND, VM: Analysis of the transonic flow past an airfoil in the perforated wall wind tunnel, 10T1086
NEYMAN, A: Effectiveness of fretting delay by lubrication (Polish), 6A794
NEYTCHEVA, MG: Experience in implementing the Algebraic Multilevel Iteration method on a SIMD-type computer, 6A56
NEZU, K: Design of longitudinal control system for brushless motor electric vehicle using VSTC control theory, 6A326
NG, CWW: Approximate analysis of the 3D effects of diaphragm wall installation, 2T512
NG, CWW: Effects of modeling soil nonlinearity and wall insulation on back-analysis of deep excavation in stiff clay, 2A526
NG, GHT: Geometric parameters for FE model updating of joints and constraints, 11A11
NG, HW: Supercomputer application to structural dynamic analysis of PWR piping system, 1A1414
NG, HW: Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part II: Comparison between FE analysis and theory, 10A545
- Biaxial ratcheting and cyclic plasticity for Bree-type loading - Part I: FE analysis, 10A544
NG, KC: Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design, 11A1229
NG, KIM CHWEE: Genetic algorithm automated approach to the design of sliding mode control systems, 10A426
NG, TANG-TAT: Contact detection algorithms for 3D ellipsoids in discrete element modeling, 2A516
NG, TANG-TAT: Small-strain response of random arrays of spheres using discrete element method, 8A529
NG, TT: Vortex control over sharp-edged slender bodies, 1A1123
- Forebody vortex control using nose-boom strakes, 1T1120
NG, TY: Dynamic stability of a plate on multiple line and point supports subject to pulsating conservative in-plane loads, 1A670
- Vibration and critical speeds of a spinning annular disk of varying thickness, 4A181
- Transverse vibration of a plate moving over multiple point supports, 12A170
NG, W: Computational Fluid Dynamics in Aeropropulsion, AD-Vol 49 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N33
NG, WF: Experimental and numerical studies of the aeroacoustics of axisymmetric supersonic inlets, 1A296
NGAMSRITRAGUL, P: Spectrum analysis by autoregressive methods: Performance on application to stationary signals, 12A66
NGOI, BKA: Tolerance stack analysis for assembly, 11A404
NGUYEN NHAT, T: Off-axes forming-limit stress diagrams of an anisotropic steel sheet, 6A553
NGUYEN VIET, H: Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, 4A512
NGUYEN, A: Technical report: European company examples of excellent quality management, 2T351
NGUYEN, BV: Instrument responses of the SKM-3 system and the designated seismic station vault seismic system, 6A1289
NGUYEN, CC: Robotically assisted munition loading system, 4A412
NGUYEN, CT: Transient behavior of a $NaNO_3$ float zone operating at high Marangoni number under μ-g conditions, 1A1194
- Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, 5A1144
NGUYEN, H: Mechanical characterization of extended-chain polyethylene fiber-reinforced composites, 4A516
NGUYEN, HD: Solution domain decomposition with finite difference methods for partial differential equations, 1A49
- Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, 4A1163
NGUYEN, HK: Evaluation of the implantable force transducer for chronic tendon-force recordings, 6A1364
NGUYEN, HL: Numerical analysis of the flowfields in a staged gas turbine combustor, 2A1041
NGUYEN, HV: Combined plastic simple waves in a thin-walled tube, 1A196
NGUYEN, KY: Steady natural convection in a double layer of immiscible liquids with density inversion, 4A1154
NGUYEN, M: Solar and gas-driven absorption heat-pump systems, 7A1275
NGUYEN, MD: Characteristics of the discharge between precipitation particles in cloud, 9T1400
NGUYEN, P: Viscous oscillatory flow about a circular cylinder at small to moderate Strouhal number, 4A1047
NGUYEN, QK: Simulataneous solution for flood routing in channel networks, 2T864
NGUYEN, QUOC SON: Stabilite des Structures Elastiques - Stability of Elastic Structures - Mathematiques and Applications Series, Vol 18 (French), 1R19
NGUYEN, QV: Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air Bunsen flame, 11A1301
NGUYEN, TH: Numerical solution for the inverse natural-convection problem, 4A1175
- Determination of the radiative boundary conditions on the surface of an enclosure, 8A1186
NGUYEN, VD: Probe interference on flow measurements in propeller near slipstream, 1T1143
- Structure of highly sheared turbulence, 4A1082
NGUYEN-DANG, H: Multiple-cracked fatigue crack growth by BEM, 1A836
NHU, DT: Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, 7A409
NI, AL: Boundary conditions for the vorticity-velocity formulation of Navier-Stokes equations, 7T1054
NI, HANGEN: Theoretical analysis and experimental study of speed effect of incipient cavitation erosion number (Chinese), 8A879
- Study of hydrodynamic characteristics and vibration of cantilever structure in water (Chinese), 11A212
NI, HUA: Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), 8A1232
NI, J: Improvement of thermal error modeling and compensation on machine tools by CMAC neural network, 7A742
- Accuracy enhancement of a horizontal machining center by real-time error compensation, 10A496
NI, JINGANG: Determination of stress intensity factor in ultrasonic fatigue loading by means of dynamic modal analysis and 3D FE calculation, 4A708
NI, JUN: Application of real-time error compensation on a turning center, 2A538
NI, KAN: Constant amplitude fatigue strength and P-S_a-S_m-N camber family, 10T728
NI, QIAO: KBM method of flutter analysis with structural nonlinearity and the comparison with wind tunnel test (Chinese), 6A220
NI, WEI-MING: Boundary element monotone iteration scheme for semilinear elliptic partial differential equations, 12A51
NI, WENYAN: Nonequilibrium anisotropic eddy-viscosity and diffusivity turbulence model for heated turbulent flows, 2T991
NI, X: Study of velocity vector profile and strain rate distribution for laminar and oscillatory flows in a baffled tube using particle image velocimetry, 5T943
NI, YIGONG: Traveling waves in a relaxation system, 12A482
NI-IMI, T: Measurement of temperature by pure rotational CARS - Part 2: Application of pure rotational CARS to a gas mixture, 9A1253
NIAZI, M: Characteristics of free-field vertical ground motion during the Northridge Earthquake, 7A1372
NICAISE, S: Dirichlet problems in polyhedral domains II: Approximation by FEM and BEM, 4A28
NICHOLAS, T: Cyclic behavior of unidirectional and cross-ply titanium matrix composites, 12A518
NICHOLAS, TMT: Mixing pressure-rise parameter for effect of nozzle geometry in diffuser-ejectors, 8A955
NICHOLS, DE: Maximum energy traveltimes calculated in the seismic frequency band, 6A1251
NICHOLSON, DW: Tangent modulus matrix for FE analysis of hyperelastic materials, 3A20
NICHOLSON, JY: Orbital acceleration research experiment: Calibration measurements, 1A271
NICHOLSON, PS: Structure and fracture behavior of t-ZrO_2/Al_2O_3 lamellar composites, 1A822
NICKELS, TB: Experimental and theoretical study of the turbulent coflowing jet, 8A970
NICOL, AC: Design and performance of an experimental external fixation device with load transducers, 4A1369
- Three-dimensional joint co-ordination strategies of the upper limb during functional activities, 9A1440
NICOLAE , V: Double couple radiation pattern in acoustics - Part I: A nonlocal theory of radiation, 11A238
NICOLAIDES , RA: Analysis and convergence of the MAC scheme - Part II: Navier-Stokes equations, 6A908
NICOLAIS, L: Analysis of steel fiber pull-out from a cement matrix using video photography, 10A573
NICOLAISEN, N: Remarks on period doubling in systems with symmetry, 1A102
NICOLAOU, D: Internal waves from a body accelerating in a thermocline, 8A205
NICOLAOU, PD: Approach to determine the experimental transmitter-receiver geometry for the reception of leaky lamb waves, 4A776
NICOLAS, J: Panel dynamic response to a reverberant acoustic field, 2A218
NICOLET, A: Boundary Element Technology X - Proc of 10th Int Conf on Boundary Technology (BETECH 95), Liege, Belgium, Sept 13-15, 1995, 1N2
NICOLETTE, VF: Coupled thermal response of objects and participating media in fires and large combustion systems, 4A1261
NICOLETTI, G: Heat and momentum transfer in flows adjacent to vibrating wall surfaces, 8A1067
NICOLETTO, G: Effect of microstructure on fracture toughness of polycrystalline alumina, 8A677
NICOLIS, G: Introduction to Nonlinear Science, 8R5
NICZYJ, J: Experimental investigation of box-section floor elements (Polish), 10A910
NIE, GH: Nonlinear model for stability analysis of reticulated shallow shells with imperfections, 10A632
NIEBUR, GL: Determination of the proximity tolerance for measurement of surface contact areas using a magnetic tracking device, 6A1363
NIECKELE, AO: Hidrodynamics in tubes with curvilinear obstructions (Spanish), 3A950
- Heat removal from tubes with externally, longitudinal fins: Distributed and lumped models, 10T1315
NIEDZIELA, T: Non-cooled (Hg, Cd) Te detectors of 10.6 μm radiation in direct and heterodyne detection, 3A1145
NIEDZWECKI, JM: Estimation of flexible cylinder displacement in wave-basin experiments, 2A202
- Slepian models for waves and wave-structure interaction, 4A290
NIEH, TG: Effect of temperature on the mechanical properties of mechanically-alloyed materials at high strain rates, 1A495
NIEKAMP, R: Error indicators for mixed FEs in 2D linear elasticity, 4A440
- Coupling of adaptively refined dual mixed FEs and BEs in linear elasticity, 5A422
NIEKRASZEWICZ, A: Bioactive chemical fibers, 6T1351
NIELD, DA: Closure statements on the Brinkman-Forchheimer-extended Darcy model, 8A1318
NIELSEN, JCO: Vertical interaction between train and track with soft and stiff railpads: Full-scale experiments and theory, 2A134
- Vertical dynamic interaction between train and track: Influence of wheel and track imperfections, 4A196
NIELSEN, SRK: Interval algebra to deal with pattern loading and structural uncertainties, 3A770
- Fast cell-to-cell mapping (path integration) for nonlinear white noise and Poisson driven systems, 3A60
- Stochastic dynamics of geometrically nonlinear structures with random properties subject to stationary random excitation, 8A99
- Faster simulation methods for the nonstationary random vibrations of nonlinear MDOF systems, 9A115
NIELSON, LE: Mechanical Properties of Polymers and Composites, Second Edition, Revised and Expanded - Mechanical Engineering Series, 90, 8N18
NIEM, PIF: Effect of surface characteristics of polymeric materials on the strength of bonded joints, 11A845
NIEMI, E: New failure criterion for the Gurson-Tvergaard dilational constitutive model, 1A800
NIEMI, J: Static shoulder model based on a time-dependent criterion for load sharing between synergistic muscles, 8A1414
NIEMIEC, JM: Anomalies in the normal force measurement when using a force rebalance transducer, 11A861
NIEMIEC, M: Kinetics of microdomain formation in 2D assemblies, 9A12
NIEMINEN, H: Static shoulder model based on a time-dependent criterion for load sharing between synergistic muscles, 8A1414
NIEMOTKA, MA: Optimal design of split ring dampers for gas turbine engines, 5A1037
NIEMUNIS, A: Failure criterion, flow rule and dissipation function derived from hypoelasticity, 11A445
NIEPLOCHA, J: Use of conjugate gradients method with a segregated finite volume procedure for solving transient, incompressible Navier-Stokes equations, 3A912
NIERES VERA, M: Role of negative statements on the subjective effects of traffic noise, 6A255
NIETHAMMER, RJ: Numerical simulation of shock waves in linear-elastic plates with curvilinear boundaries and material interfaces, 2A161
NIETO, JJ: Methods of generalized quasilinearization for periodic boundary value problems, 11T67
NIETUBICZ, CJ: Application of chimera technique to projectiles in relative motion, 5A1015
NIEUWENHUIZEN, JK: Numerical and experimental study of the no-emission of ceramic foam surface burners, 5A1216
NIEUWENHUIZEN, R: Flow pattern analysis for a well defined by point sinks, 5A1297
NIEUWSTADT, FTM: Alignments and small scale structure in turbulent pipe flow, 2A986
- Degradation effects of dilute polymer solutions on turbulent drag reduction in pipe flows, 3A943
- Numerical simulation of transient natural convection from an isothermal cavity open on a side, 5A1131
- Turbulent boundary layer in an adverse pressure gradient: Effectiveness of riblets, 10A1133
- Large-Eddy simulation of turbulent flow in a curved pipe, 12A1122
- Measurement of the lift force on a particle fixed to the wall in the viscous sublayer of a fully-developed turbulent boundary layer, 12A1082
NIEWOEHNER, RJ: Integrated aircraft-controller design using linear matrix inequalities, 8T329
- Design of an autoland controller for an F-14 aircraft using H_∞ synthesis, 11A323
NIGG, BM: Method for inverse dynamic analysis using accelerometry, 12A1462
NIGHTINGALE, RW: Dynamic responses of the head and cervical spine to axial impact loading, 6A1310
NIGIM, H: Measurements and visualization in the flowfield behind a model propeller, 9A1244
NIGMATULIN, RI: Hydrodynamics and heat transfer of a vapor-liquid flow in a channel of complex geometry, 1A1233
NIGRELLI, V: Stress concentration factor in collar and shouldered shafts in torsion, 5A842
NIIMI, H: Improvement in the effect of drainage asphalt road surface on noise reduction, 12A295
NIIMI, T: Flow fields of interacting parallel supersonic free jets, 7T1114
NIINO, Y: Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), 3A632
NIINOBE, Y: Method of sensitivity analysis based on the characteristics of sensitivity coefficients of framed structures (Japanese), 5T689
NIIOKA, T: Ignition simulation of methane-hydrogen mixtures in a supersonic mixing layer, 1A1328
- Asymptotic analysis on the extinction of diffusion flames in supersonic stagnation-point flow, 11A1288

NIITANI, H: Recent mechatronics technology on precise cutting (Japanese), 1T727
NIITSU, K: Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), 4T824
NIITSU, Y: Scanning stress measurement method by laser photoelasticity - 1st report: Stress measurement by synthesized method, 3A721
NIJHOF, EJ: Motion of a droplet subjected to linear shear flow including the presence of a plane wall, 4A1010
NIJMEIJER, H: Immersion of discrete-time nonlinear system by regular dynamic state feedback into a linear system, 12T371
NIKFETRAT, K: Drag prediction at subsonic and transonic speeds using Euler methods, 1A1026
- Accuracy and nonuniqueness aspects of numerical solutions of some natural convection problems, 10A1260
NIKIFOROV, AY: Magnetotransport characterization of HgCdTe solid solutions structural quality, 6A520
NIKIFORUK, PN: Application of H_{∞} control and LQC with frequency-dependent weight syntheses to a multivariable active flutter suppression system, 2A195
NIKISHKOV, GP: Calculation of the second fracture parameter for finite cracked bodies using a three-term elastic-plastic asymptotic expansion, 2A625
NIKMANESH, N: Fine-pitch stencil printing process modeling and optimization, 8A845
NIKODIJEVIC, D: MHD plane boundary layer on the body of pours contour, 1A1094
- Unsteady MHD boundary layer on a porous surface, 12A1160
NIKODIJEVIC-BOZILOV, L: One procedure for determination of limit loading of built-in portal frame of one bay with movable joints, 11T715
NIKOLAIDIS, E: Comparison of probabilistic and deterministic optimizations using genetic algorithms, 6A712
- Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808
- Design of automotive joints: Using neural networks and optimization to translate performance requirements to physical design parameters, 12A995
NIKOLAKOPOULOS, PG: Lyapunov's stability of nonlinear misaligned journal bearings, 5A829
NIKOLIC, M: Spinning of fine yarns from sliver, 6T585
NIKOLIC, RR: Method to determine the plane-strain yield locus for ductile crystals, 12A514
- Mechanical behavior of zinc single crystals, 12A513
NIKOLIC, V: Design of the PI controller in the state space for controlling rotation speed of a steam turbine, 3A364
NIKOLIC, VR: Modified, discrete-vortex method for studying wing-loading effects on wake dynamics, 7A1156
NIKOLSKY, YV: Theoretical and experimental investigations of a supersonic low-density flow over a sphere with surface condensation and evaporation, 10T1097
NIKRAVESH, P: Impact dynamics of multibody systems with frictional contact using joint coordinates and canonical equations of motion, 7A249
NIKU, SM: Acoustic diagnostic analysis using BEs, 6A40
NILSEN, S: Wavelet upscaling based on piecewise bilinear approximation of the permeability field, 11A1327
NILSSON , L: Unified contact algorithm based on the territory concept, 12A497
NILSSON, F: Perturbation method used for static contact and low velocity impact, 2A168
NILSSON, J: Mixing in the ocean produced by tropical cyclones, 8T1358
NILSSON, K-F: Finite element analysis of configurational stability and finite growth of buckling driven delamination, 4A691
NILSSON, S: Tensile impact delamination of a cross-ply interface studied by moire photography, 3A702
- Development of femoral atherosclerosis in relation to flow disturbances, 8A1432
NILSTAM, NG: Allowing higher speeds on existing tracks: Design considerations of the X2000 train for Swedish State Railways, 6A161
NIMIPAL, W: Heat transfer characteristics in a small-scale fluidized bed boiler, 12A1344
NING , YINGJI: Application of moments method to the plastic dynamic response of damping medium simple square-plate (Chinese), 9T197
NING, QIONG-GONG: Closed-form solutions of the in-plane effective thermal conductivities of woven-fabric composites, 3A1115
- Closed-form solution of the transverse effective thermal conductivity of woven fabric composites, 6A1123
NING, XIANG: Evaluation of reverberation times using a nonlinear regression approach, 3A298
NING, ZHI: Influences of external drying condition on drying process of porous medium (Chinese), 8A1203
NINO, Y: Turbulent coherent structures in the near wall region of open channel flows, 10T1056
NINOMIYA, K: Closed loop momentum transfer maneuvers using multiwheels, 1T388
NINOYU, H: Estimation of the stress distribution in metal using nonlinear acoustoelasticity, 1A852
NIPPARD, F: Strength of a hot tap reinforced Tee junction, 12A873
NIRMALAKHANDAN, N: Toxicity of organic chemicals and their mixtures to activated sludge microorganisms, 10A1454
NISBET, BS: Long-term simulation of fine-grained sediment transport in large reservoir, 3T885
NISBET, P: Integrating assistive technologies: Current practices and future possibilities, 10A1486
NISHI, K: Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550
NISHI, M: Fluid Measurement and Instrumentation - 1995 ASME/JSME Fluids Eng Conf, 1N30
- Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), 3T436
NISHIBE, K: Measurement of physical properties of lubricants under high pressure by Brillouin scattering in a diamond anvil cell, 5A1109
NISHIDA, E: Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, 9A1016
- Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, 9A215
NISHIDA, J: Mask-to-wafer fine gap setting method, 1A384
NISHIDA, K: Separation function of geotextile for road construction on soft subgrade soil (Japanese), 2A530
NISHIDA, N: Profile calculation method for form grinding wheels: Theoretical analysis of error transmission and its application, 7A753
NISHIDA, S: Moving characteristics of shield tunneling machine (Japanese), 10A682
- Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486
NISHIDA, S-I: Localized Damage IV: Computer-Aided Assessment and Control - Proc of 4th Int Conf, Fukuoka, Japan, June 1996, 11N31
NISHIDA, S-I: Method for predicting service load from the width and height of striation (Japanese), 10A743
NISHIDA, T: Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, 8A655
NISHIFUJI, K: Ultrasonic inspection system for tubular products using real-time digital signal processing, 4A780
NISHIGAKI, M: Study on soil water behavior during unsaturated sandy ground freezing and thawing under closed system (Japanese), 7T699
NISHIGAKI, T: Study of the transient sound radiated by impacted solid bodies based on the BEM, 12A276
NISHIGATA, T: Separation function of geotextile for road construction on soft subgrade soil (Japanese), 2A530
NISHIGUCHI, I: Estimation of creep buckling deformation under external pressure at elevated temperature, 10A638
NISHIHARA, O: Vibration control of a ropeway carrier by passive dynamic vibration absorbers, 6A173
NISHIKADO, K: Flame propagation along a fine vortex tube, 5A1219
NISHIKAWA, I: Laser-strain and displacement measurement for fracture mechanics research (Japanese), 1T841
NISHIKAWA, S: Evolution of the Rayleigh-Benard convection in a rectangular box, 10A1261
NISHIKAWA, T: Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), 4A1233
NISHIKAWA, Y: Statistical fatigue properties of ductile cast irons (Japanese), 3A654
- Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293
NISHIKIORI, N: Improved method for gas lift allocation optimization, 1A1409
NISHIMOTO, S: Static analysis of a continuous underground deep wall under construction of the main tower foundation of Hakucho Ohashi (Japanese), 11A570
NISHIMURA, K: Elastic-plastic hysteresis analysis of truss structures subject to fluctuating loads based on energy principle (Japanese), 1A915
- Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
- Viscosity of fluidized snow, 11A1447
NISHIMURA, M: Tribological characteristics of bonded MoS_2 films evaluated in rolling-sliding contact in a vacuum, 5A811
NISHIMURA, T: Method for the evaluation of lubrication using injection upsetting, 3A605
- Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), 4A666
- Collinear internal cracks and edge crack in a semi-infinite sheet subjected to arbitrary tractions, 5A622
- Natural convection suppression by azimuthal partitions in a horizontal porous annulus, 6A1099
NISHINO, F: Explicit geometrically-nonlinear discretization of the 3D tetrahedral element, 1A12
- Consistency of straight-beam approximation of a thin-walled circular beam, 11A501
NISHINO, K: Thermal contact resistance of wavy surfaces, 2A1128
- Thermal contact resistance of wavy surfaces, 3A1113
NISHINO, S: Nucleation of intergranular cracks during high temperature low cycle fatigue of SUS316 stainless steel, 11A636
NISHINO, T: Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), 12A543
NISHINO, Y: Experimental study of flexural vibration of wooden beams by Levinson beam theory, 5T118
- Improvement of interferometer accuracy with self-calibration of phase interpolation error (Japanese), 9A863
- Anisotropic shear modulus of wood-based composite (Japanese), 12T531
NISHIO, M: Methods for visualizing hypersonic shock-wave and boundary-layer interaction using electrical discharges, 12A1105
NISHIO, S: Enhancement of evaporation of a liquid droplet using EHD effect: Criteria for instability of gas-liquid interface under electric field, 8A1146
- Leidenfrost temperature on an extremely-smooth surface, 8A1129
- Effects of slots on the lateral vibration of circular saw blade, 12A161
NISHIO, T: Scattering and diffraction of a plane wave by a randomly rough half-plane, 3A187
NISHIOKA, M: Boundary layer transition triggered by hairpin eddies at subcritical Reynolds numbers, 2A941
- Flame-controlling continuation method for generating S-curve responses with detailed chemistry, 8A1248
- Nonlinearity-coupled receptivity process generating a Tollmien-Schlichting wave behind a backward-facing step, 8A1040
- Further studies on effects of thermophoresis on seeding particles in LDV measurements of strained flames, 9A1335
- Modular structure of spatial cam-linkage mechanism, 12A953
NISHITANI, T: Three-dimensional coupled thermal stresses in infinite plate subjected to a moving heat source, 11A1248
NISHIWAKI, N: Influence of plasma extinction on machining stability in EDM process (Japanese), 12A688
NISHIYAMA, H: Numerical analysis on plasma spraying in a DC-RF hybrid plasma reactor, 7T1143
- Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, 7A1147
NISHIYAMA, T: Initial and initial-boundary value problems for a vortex filament with or without axial flow, 12A1036
NISHIZAKA, T: Mask-to-wafer fine gap setting method, 1A384
NISHIZAWA, T: Warping stress equation at the transverse joint edge of concrete pavement slab based on FEM analysis (Japanese), 9A926
NISHT, MI: Mathematical modeling of unsteady viscous flow over a 3D finite span wing, 10T1206
NISITANI, H: Localized Damage IV: Computer-Aided Assessment and Control - Proc of 4th Int Conf, Fukuoka, Japan, June 1996, 11N31
- Stress-intensity factors for an internal semi-elliptical surface crack in cylindrical pressure vessels, 5A625
- Crack growth arresting property of a hole and Brinell-type dimple, 8A567
- Two-dimensional thermal stress analysis under unsteady state by the improved BEM, 8A1240
NISSEN, JA: Heat capacity of confined helium very near the lambda point, 7A302
NITHIARASU, P: Convective heat transfer in axisymmetric porous bodies, 4A1167
NITSCHE, LC: One-dimensional stretching functions for C^0 patched grids, and associated truncation errors in finite-difference calculations, 11A49
NITSCHE, W: Shock boundary-layer interaction on transonic airfoils for laminar and turbulent flow, 7A1097
NITTA, K: Design and examination of H_{∞} robust controller for ground effect problem, 1A379
NITTA, Y: Rate of people who have transport physical difficulty and their traffic demands (Japanese), 1T1468
- Basic study on special bus service planning for improving mobility of elderly (Japanese), 1T1466
NIU, DEFANG: Analysis of structural deviation of C-type piezoresistive pressure sensors using the FEM (Chinese), 8A526
NIU, L: Use of notch stress intensity factor as a fatigue crack initiation parameter, 2A564
NIU, XP: Fretting wear of mechanically alloyed Al-Fe and Al-Fe-Mn alloys, 11A648
NIU, YUQING: Generalized ray approximate method to inverse medium parameters, 9A274
NIVARGIKAR, SV: Resistance to crack growth in human cortical bone is greater in shear than in tension, 12A1450
NIVOIT, M: Stress determination by speckle interferometry (French), 4A774
NIWA, J: Finite element with inner linkage rods in capturing the crack localization of concrete structures, 6A599
NIXON, WA: Reinforcement percentage effects on bending strength of soil-ice mixtures, 1A698
- Nonlinear fatigue damage model for concrete in tension, 4A744
- Wing crack models of the brittle compressive failure of ice, 8A1023
- Fracture toughness of freshwater ice - Part II: Analysis and micrography, 11A697
- Fracture toughness of freshwater ice - Part I: Experimental technique and results, 11A696
NIYOGI, P: Dispersion of a solute in oscillating flow through a channel, 10A1350
NIZOVTSEV, MI: Heat transfer in a channel with a counter-current wall jet injection, 1A1180
NKASHAMA, MN: Nonlinear elliptic partial differential equations at resonance: Higher eigenvalues, 1T117
NOAH, ST: Significance of considering nonlinear effects in predicting the dynamic behavior of rotating machinery, 3A169
- Quasi-periodic response and stability analysis for a nonlinear Jeffcott rotor, 7A207
NOBARI, MRH: Numerical simulations of 3D drop collisions, 9A1124
NOBE, H: Improvement in hole quality at laser drilling of GFRP (Japanese), 12A701
- Study on drilled hole quality in small diameter drilling of GFRP (Japanese), 12A553
NOBILE, MR: Stability of molecular weight distributions as computed from the flow curves of polymer melts, 11A859
NOBILINI, R: Six-dof instrumented linkage for measuring the flexibility characteristics of the ankle joint complex, 12A1480
NOBLES, CM: Modeling and performance of an experimental active vibration isolator, 5A168
NOBLESSE, F: Fourier-Kochin formulation of wave diffraction-radiation by ships or offshore structures, 1A1098
- Decomposition of free-surface effects into wave and near-field components, 5A200
- Fourier representation of near-field free-surface flows, 8A1005
NOBORI, T: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877
NOCHETTO, RH: P^1 - P^0 FEM for a model of polymer crystallization, 1A40
NOCTON, V: Etude theorique d'un microtranslateur piezoelectrique a ondes stationnaires: Une introduction aux futurs micromoteurs multi degres de liberte (French), 4A593
NODA, N: Inverse thermoelastic problem in an isotropic plate associated with a piezoelectric ceramic plate, 8A1223
- Transient thermoelastic problem for an infinite plate containing a penny-shaped crack at an arbitrary position, 12A1278
NODA, N-A: Efficient and accurate determination of mode I type 3D surface crack by measuring strain around the crack on the idea of the body force method, 6A691
- Variation of stress intensity factor and crack opening displacement of semi-elliptical surface crack, 10A778
NOE, A: Introduction of nonproportionality functions in standard plasticity by splitting of the plastic work increment, 1A490
- Dynamic interface crack propagation and related problems of caustics, 9A839
NOEL, F: New approach to free-form surface mesh control in a CAD environment, 2A831
- Structural shape optimization of parts bounded by free-form surfaces, 12A832
NOELLE, S: Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions, 3A69
- Note on entropy inequalities and error estimates for higher-order accurate finite volume schemes on irregular families of grids, 12A23
NOEVER, DA: Gravitational effects on closed-cellular-foam microstructure, 10A329
NOGAI, T: Interference-drive of a 3 dof joint based on the cable-controlled mechanism (Japanese), 7A1021
NOGAMI, T: Failure diagnostic system on air-operated control valves using neural network, 6A354
NOGATA, F: Evaluation of adhesive strength of resin liner film, 10A1038
NOGUCHI, K: Field observation of suspended sand concentration near the breaking point (Japanese), 3A888

NOGUCHI, T: Study on vertical earth pressure distribution in sand by trap door test (Japanese), 10A668

NOGUEIRA, F: Preliminary considerations on a new design concept for below the knee energy storing prosthesis, 10A1490

NOH, Y: Onset of stratification in the mixed layer subjected to a stabilizing buoyancy flux, 6A993

NOJIMA, T: Formation of holes in engineering ceramic plates by press-working, 12A705

NOL'DE, YV: Quasifront in the problem of the action of an instantaneous point impulse at the edge of a conical shell, 8A187

NOLAND, JL: Experimental evaluation of masonry-infilled RC frames, 8A746

NOLET, G: Ray theoretical analysis of Lg, 12A1368

NOLLE, AW: Acoustical principles of a dynamic compressibility apparatus with internal reference, 1A357

NOLTE: Full-field optimum detection in an uncertain, anisotropic random wave scattering environment, 1A324

NOLTE, B: Sound energy flow in the acoustic near field of a vibrating plate, 12A274

NOMOTO, T: Centrifuge modeling of shield tunnel construction processes (Japanese), 7A711

NOMURA, A: Influence of joints and soft tissue on the natural frequency of the human tibia using the impulse response method, 3A1401

NOMURA, M: Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391

NOMURA, S: Green's function applied to solution of Mindlin plates, 11A529

NOMURA, T: Experimental study on the control of the vortex-induced vibration of a circular cylinder by acoustic excitation (Japanese), 5A259

- Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877

NOMURA, Y: Improvement of in-situ circularity measurement technique based on three-point method and development of n-point method, 1A859

NONAKA, M: Turbulent transport effect on hydrocyclone performance, 9A1430

NONAKA, T: Very low cycle failure process of steel angle members, 7A929

- Material characterization by ultrasonic measurement (Japanese), 12T794

NONAKA, Y: Thermal stress and strength reliability of heater for cathode ray tube (Japanese), 7A1284

- Internal solitary waves moving over the low slopes of topographics, 10A288

NONINO, C: Finite element analysis of laminar-mixed convection in the entrance region of horizontal annular ducts, 8A1091

- Energy balances in CVFEM and GFEM formulations of convection-type problems, 12A1221

NONOKAWA, T: Development of new ultrasonic dressing equipment (Japanese), 1A735

NONOYAMA, Y: Boundary element study on the optical method of caustic for measuring fast crack propagation toughness K_{ID}, 2A47

NOOL, M: Explicit parallel block Cholesky algorithms on the CRAY APP, 6A57

NOOR, AK: Nonlinear structural analysis on distributed-memory computers, 3A561

- Three-dimensional solutions for coupled thermoelectroelastic response of multilayered plates, 4A1239
- Hybrid neurocomputing-numerical strategy for nonlinear structural analysis, 4A813
- Dynamic sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, 5A193
- Computational models for sandwich panels and shells, 6A483
- Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayerd cylindrical shells, 9A647
- Nonlinear and postbuckling responses of curved composite panels with cutouts, 9A614
- Recent advances in sensitivity analysis for thermomechanical postbuckling of composite panels, 10A635
- Sensitivity analysis for large-deflection and postbuckling responses on distributed-memory computers, 10A641
- Sensitivity analysis for the dynamic response of thermoviscoplastic shells of revolution, 10A188
- Buckling and postbuckling of composite panels with cutouts subjected to combined edge shear and temperature change, 11A547
- Reduction technique for tire contact problems, 11A787
- Buckling and postbuckling of composite panels with cutouts subjected to combined loads, 12A619
- Assessment of temporal integration schemes for the sensitivity analysis of frictional contact-impact response of axisymmetric composite structures, 12A944
- Nonlinear and postbuckling analyses of curved composite panels subjected to combined temperature change and edge shear, 12A625

NOORI, M: Spectral density of a nonlinear single dof system's response to a white-noise random excitation: A unique case of an exact solution, 5A108

- Response of an SDOF system to periodic external and parametric excitations with random phase modulations, 11A768

NOORI, MN: Equivalent linearization of generally pinching hysteretic, degrading systems, 12A1401

NOORSHAHI, S: Natural convection in a corrugated enclosure with mixed boundary conditions, 7A1213

NORBURY, J: Bifurcation of steady gravity water waves in (R,S) parameter space, 4A262

NORDELL, B: Method for continuous measurement of ice cover thickness, 3A580

NORDENHOLZ , TR: Kinematical conditions for steady motions of strings and rods, 5T80

NORDLUND, A: Magnetic structures in a dynamo simulation, 7A1141

NORDMANN, F: Studies of IGA intergranular attack-stress corrosion cracking related parameters and remedies, 11A1420

NORDSLETTEN, L: Structural capacity of the knee to anterior cruciate ligament failure during quadriceps contraction: An *in vivo* study in the rat, 12A1452

NORMAN, D: Measurement techniques and effects on in-plane permeability of woven cloths in resin transfer molding, 9A723

NORMAN, TL: Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, 10A577

- Strength and damage mechanisms of notched 2D triaxial braided textile composites and tape equivalents under tension, 11A686
- Resistance to crack growth in human cortical bone is greater in shear than in tension, 12A1450

NORMAND, P: Miniature self-aligned pressure sensing element, 10A463

NORMAND-CYROT, D: Link between input-output stability and Lyapunov stability, 11T264

NORMANDIN, M: Calculation of fully developed flows of complex fluids in pipes of arbitrary shape, using a mapped circular domain, 3A951

NORONHA, JP: Propagation of axisymmetric transverse waves along a thin-walled cylindrical pipe, 1A189

NORRIE, DH: Reactive scheduling system for cellular manufacturing with failure-prone machines, 8T370

NORRIS, AN: Nonlinear poroelasticity for a layered medium, 1A1367

- Mid-to-high frequency acoustic scattering and radiation from fluid-loaded structures: Asymptotic techniques, 2A220
- Acoustic and flexural wave scattering from a three-member junction, 5A266
- Ray tracing over smooth elastic shells of arbitrary shape, 6A212
- Line admittance at the junction of two plates with and without fluid loading, 9A342

NORRIS, MA: Comparison of actuation and sensing techniques for aircraft cabin noise control, 9A374

NORRIS, SD: Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part B: The influence of carbides, 10A822

- Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part A: The influence of non-metallic inclusions, 10A821

NORTHAM, GB: Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, 8A1047

NORTHCOTT, AJ: Acutation system requirements for advanced short take-off and vertical landing powerplants, 6A1209

NORTON, B: Thermal and optical consequences of the introduction of baffles into compound parabolic concentrating solar energy collector cavities, 1A1420

- Effect of variation of angle of inclination on the performance of low-concentration-ratio compound parabolic concentrating solar collectors, 3A1368
- Design and measured performance of a solar chimney for natural circulation solar energy dryers, 7A1393
- Effect of occupancy patterns on the long-term performance of roof-space solar-energy collectors on domestic dwellings in a Northern European climate, 8A1379

NORTON, GV: Effect of sea-surface roughness on shallow water waveguide propagation: A coherent approach, 9A350

NORTON, MP: Laminar boundary layer receptivity to transverse structural vibration, 3A212

NORTON, PF: Application of SPSLIFE to preliminary design evaluation and life assessment of CSGT components, 5A633

NORTON, RL: Machine Design: An Integrated Approach, 6R15

NORTON, TW: Evaluation of equivalent spring stiffness for use in a pseudo-rigid-body model of large-deflection compliant mechanisms, 8A840

NORWOOD, CJ: Vibratory power transmission through 3D beam junctions, 2A226

NOSEK, S: Dynamics and stability of best-up at high weaving rates, 6A167

NOTAY, Y: High-performance PCG solvers for FEM structural analysis, 10A18

NOTO, H: Strength test over the high strength bolted joints in steel deck with large scale specimens (Japanese), 11T833

NOTON, M: Orbital strategies around a comet by means of a genetic algorithm, 3T232

NOUAR, C: Thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct, 10A1267

- Flow structure in a flooded ball bearing, 12T1197

NOUNO, M: Numerical study on yield curves of FCC metals based on rate-dependent crystal slips, 10A560

NOUR ELDIN, HA: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459

NOUR-OMID, B: Prediction of high temperature metal matrix structural material failure using a massively parallel computer, 5A483

NOURI, JM: Application of a strain gauge technique to the measurement of the power characteristics of five impellers, 5A1042

NOVA, R: Theoretical investigation of the undrained stability of shallow submerged slopes, 2A522

NOVAK , D: Error assessment for wind histories generated by autoregressive method, 2A772

NOVAK , MD: E-ε modeling of turbulent air flow downwind of a model forest edge, 8T1362

NOVAK, I: Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface properties via electrical discharge, 6T789

- Methods for improving the adhesive properties of isotactic polypropylene - II: Modification of the surface properties of isotactic polypropylene using chemical oxidizing methods, 6T790
- Methods of improving the adhesive properties of isotactic polypropylene - III: Modification of surface properties by UV irradiation and phosphorous trichloride, 6A791
- Methods of improving the adhesive properties of isotactic polypropylene - IV: Modification of surface properties by low-molecular substances, 6A792

NOVAK, J: Role of synovial fluid filtration by cartilage in lubrication of synovial joints - III: Squeeze-film lubrication - Axial symmetry under low loading conditions, 1A1454

NOVAK, JM: Theoretical, computational, and experimental investigation of Helmholtz resonators with fixed volume: Lumped versus distributed analysis, 4T320

- Time-domain computational simulation of acoustic silencers, 5A280

NOVAK, M: Effect of foundation nonlinearity of modal properties of offshore towers, 1A176

- Free convection heat transfer in multiple vertical channels, 1A1187
- Nonlinear analysis for dynamic lateral pile response, 12A652

NOVAK, P: Hydraulic Structures, Second Edition, 10N20

NOVAK, S: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748

NOVAKOVICH, V: Novel equipment and Technology for tilling the soil, 6A539

- Optimization of novel mechanisms for driving active tools of agricultural tilling machines, 7T1018
- Optimization of rotary effectors of a modular system for performing a set of operations, 10A1027

NOVARINI, JC: Physically motivated model for sea surface backscattering in the low to moderate frequency regime, 3A204

- Effect of sea-surface roughness on shallow water waveguide propagation: A coherent approach, 9A350

NOVATI, G: Symmetric Galerkin BEM in plasticity and gradient plasticity, 6A413

NOVIKOV, EA: Velocity circulations in free-surface flows, 7A263

NOVOKSHCHENOV, V: Deterioration of reinforced concrete in the marine industrial environment of the Arabian Gulf: A case study, 2A749

NOVOSAD, VP: Interaction of a rigid cylinder with elastic half-space under heat formation on the contact area, 7T507

NOVOTNY, A: Steady flows of viscous compressible fluids L^2-approach, 9T1102

NOVOZHILOV, IV: Separation of aircraft motions, 5A1001

- Model of motion of a deformable wheel, 10T85

NOWACKI, WK: New applications of the Hopkinson pressure bar technique to determine dynamic behavior of materials, 10A846

NOWACZEWSKI, J: Joints of steel-brass one-side welded by explosive method, 9A718

- Investigations of the combustion products of aluminum in explosion processes, 9A332

NOWAK, AJ: Inverse Thermal Problems, 7R27

- Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996, 11N45

NOWAK, B: Changes of methane mean concentration in preparatory works excavated in roadheaders (Polish), 3A1352

NOWAK, U: Numerical integration of constrained mechanical systems using MEXX, 3A105

NOWAKOWSKI, AB: Influence of galvanic waste additives on properties of ordinary concrete (Polish), 3A799

- Experimental verification of the method of deflection analysis of RC members subjected to bending (Polish), 10A895

NOWAKOWSKI, B: Nonequilibrium velocity distribution of reactive foreign gas: Simulation and phenomenology, 9A1035

NOWAKOWSKI, G: Performance of partitioned-bed sorption heat pump systems, 2A1145

- Effect of operating conditions on the performance two-bed closed-cycle solid-sorption heat pump systems, 3A1160
- Performance optimization of two-bed closed-cycle solid-sorption heat pump systems, 6A1155
- Performance of multi-bed sorption heat pump systems, 10A1325

NOWELL, D: Mechanics of Fretting Fatigue, 2R21

- Formulation and implementation of the eigenstrain method employing higher order elements, 4A699
- Solution of cracks emanating from circular holes, 11A668

NOWICKA, C: Melt-blown absorbent filter nonwovens with activated carbon, 6T591

NOWITZKE, A: Modeling the muscles of the scapula morphometric and coordinate data and functional implications, 12A1456

NOZAKI, M: Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), 12A519

NOZAKI, S: Rigid-plastic FEM analysis of 3D cutting mechanisms - 2nd Report: Simulation of plain milling process (Japanese), 11A600

NOZAKI, T: Wavelet analysis for the plane turbulent jet: Analysis of large eddy structure, 4T1048

NSOFOR, EC: Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, 12A1271

NSOM, B: Stability of Couette-Poiseuille flow of fiber suspensions, 9A1177

NUKI, K: Effect of lubricating oils on piston ring friction and scuffing, 10A1386

NUMAJIRI, K: Image processing by using fine motion of visual sensor (Japanese), 4A388

NUMATA, K: System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, 7A899

NUNES, CC: Generalized linear relationship among displacements of frame structures, 1A916

NUNEZ, GA: Flow characteristics of concentrated emulsions of very viscous oil in water, 11A857

NUNOBIKI, M: Calculation of the fractal dimensions of machined surface profiles, 10A989

NUNOMURA, S: Effects of dendrite cell size and particle distribution on the near-threshold fatigue crack growth behavior of cast Al-SiCp composites, 11A625

NUNOYA, Y: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753

NUR, A: Stress sensitivity of sandstones, 8A543

NURICK, GN: Deformation and tearing of thin square plates subjected to impulsive loads: An experimental study, 5A445

NUROV, TN: Vibration regimes of complex motion of the material point of variable weight (Russian), 7A125

NURRE, GS: Solar-array-induced disturbance of the hubble space telescope pointing system, 1A273

NURSE, AD: Experimental determination of stress intensity factors of cracks in sheet structures with bolted stiffeners, 8A623

NURTUG, A: Prediction of seismic energy dissipation in SDOF systems, 1A1386

- Earthquake ground motion characteristics and seismic energy dissipation, 1A1385

NUSCA, MJ: Experimental flow visualization for a large-scale ram accelerator, 6A1056

- Reacting flow simulation for a large-scale ram accelerator, 6A1211

NUSIER, S: Transient mean square response of stochastic systems, 4A141

NUSSE, HE: Wada basin boundaries and basin cells, 7A118

NUWAYHID, R: Transient thermal performance of axially and radially diluted nuclear fuel cells, 1A1419

- Transient thermal performance of a radially diluted and centrally cooled nuclear fuel cell, 5A1151

NUWAYHID, RY: Potential for gas-cooled reactor development, 4A1352

- Universal model for studying the performance of Carnot-like engines at maximum power conditions, 8A1060

NWOSU, DI: Evaluation of stress intensity factors for steel tubular T-joints using line spring and shell elements, 2A619

- Dynamic response of tubular T-joints under the influence of propagating cracks, 8A146

NYCHAS, SG: Boundary layer transition induced by a von Karman vortex street wake, 11A541

NYE, DA: Flame stretch measurements during the interaction of premixed flames and Karman vortex streets using PIV, 9A1333

NYE, T: Imaging the permeability structure of a limestone aquifer by crosswell acoustic tomography, 3A1301

NYFFENEGGER, PA: April 9, 1993 earthquake in south-central Texas: Was it induced by fluid withdrawal?, 6A1271
NYGARD, MK: Design procedure for reducing the stress concentration around circular holes in laminated composites, 4A506
NYGREN, T: Optimum transmission of extensional waves through a non-uniform viscoelastic junction between elastic bars, 8A167
NYKANEN, TJ: Fatigue crack growth simulations based on free front shape development, 8A574
NYONGESA, HO: Hierarchical multivariable fuzzy controller for learning with genetic algorithms, 10A407
NZEWI, EU: Motivation for probalistic balancing rule models used for real-time reservoir operations: Newsboy problem approach, 6A891

O

O'BRIEN JR, WD: Performance of ultrasonic speckle tracking in various tissues, 1A1464
O'BRIEN, EW: Progress in experimental stress analysis for Airbus aircraft design, 5A682
O'BRIEN, JE: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34
O'BRIEN, P: Evaluation of cleaning methods for granite based on petrographic examinations, 10A692
O'BRIEN, SBG: Implicit surface tension algorithm for Picard solvers of surface-tension-dominated free and moving boundary problems, 10A1078
O'BRIEN, TK: Combined tension and bending testing of tapered composite laminates, 1A585
- Analysis of local delaminations caused by angle ply matrix cracks, 10A788
- Simplified data reduction methods for the ECT test for Mode III interlaminar fracture toughness, 11A699
O'CALLAGHAN, PW: Integrated thermochemical heat-pump-energy-store, 2A1149
O'CINNEIDE, CA: Relative-error bounds for the LU decomposition via the GTH algorithm, 12A84
O'CONNOR , JJ: Fiber recruitment and shape changes of knee ligaments during motion: As revealed by a computer graphics-based model, 12A1446
O'CONNOR, JJ: Transmission of rapidly applied loads through articular cartilage - Part 2: Cracked cartilage, 9A1446
- Transmission of rapidly applied loads through articular cartilage - Part 1: Uncracked cartilage, 9A1445
O'CONNOR, JP: Laser doppler anemometry measurements of bubble rise velocity and departure frequency, 4A1195
O'DOHERTY, T: Dynamic characteristics of a small fixed-bed gasifier stove, 8A1271
O'DONNELL, IJ: The ΔT_{41} criterion for irradiation shift, 10A1451
O'DONNELL, P: Effect of the transverse component of the hip reaction on cement mantle stresses in a model of an implanted Exeter™ prosthesis, 11A1452
O'DONNELL, TP: Stress intensity factors for cracks in conventional S-N fatigue specimens, 10A776
O'DOWD, NP: Applications of two parameter approaches in elastic-plastic fracture mechanics, 2A624
- Constraint in the failure assessment diagram approach for fracture assessment, 5A667
O'HERN, T: Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf, 2N38
O'HERN, TJ: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
O'KEEFE, JL: Oscillating flow about 2D and 3D bilge keels, 8A216
O'MALLEY, MJ: Normalization of temporal-distance parameters in pediatric gait, 8A1422
O'NEAL, DL: Analytical solution to transient heat conduction in a composite region with a cylindrical heat source, 3A1102
O'NEILL, DA: Anisotropy of small strain stiffness in Ticino sand, 9A659
O'REGAN, DF: Fracture toughness and impact behavior of glass-fiber-reinforced polyamide 6,6 injection moldings, 5A647
O'REILLY, OM: Properly invariant theory of small deformations superposed on large deformations of an elastic rod, 1A456
- Kinematical conditions for steady motions of strings and rods, 5T80
- Steady motions of a drawn cable, 9A139
- Properly invariant theory of infinitesimal deformations of an elastic Cosserat point, 10A513
- Some aspects of destabilization in reversible dynamical systems with application to follower forces, 10T115
O'ROURKE, MJ: F-15 forebody vortex flow control using jet nozzle blowing, 11A1029
O'SHAUGHNESSEY, DM: Rich flammability limits in CH_3OH-CO-diluent mixtures, 7A1336
O'SHEA, J: Four-dimensional guidance of atmospheric vehicles, 6A309
O'SULLIVAN, MN: Computational study of viscous effects on lobed mixer flow features and performances, 11A1072
OAKLEY, DR: Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part I: Formulation, 4A247
- Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part II: Single-processor implementation, 4A248
- Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part III: Parallel implementation, 4A249
- Nonlinear structural response using adaptive dynamic relaxation on a massively-parallel-processing system, 6A176
OAKLEY, TR: Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer, 7A1195
OANCEA, VG: Dynamics of a state variable frictional law in FE analysis, 11A29
OBA, K: Study on seam performance of polymer-modified bituminous roofing membranes using T-peel test and microscopy, 9A794
OBA, R: High-speed observations of highly erosive vortex cavitation using image processing, 5T872
- High-speed observation of ultrahigh-speed submerged water jets, 10A1165
OBARA, S: Effect of thermal distortion on wear of composites, 5A792
OBARA, SHINGO: Improvement in dynamic characteristics of circular journal bearings by means of longitudinal microgrooves, 8T816
OBARA, T: Development of hybrid rail brake, 6A842
OBASIH, KM: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11, 3N42
OBATA, M: Ultimate behavior of tie plates at high-speed tension, 10A917
OBATA, T: Study on vibration serviceability limit state of pedestrian bridges based on human vibration sensibility (Japanese), 11A143
OBAYASHI, S: Navier-Stokes computations of full wing-body configuration with oscillating control surfaces, 5A996
- Improvement of the accuracy for extracting areas in danger of the landslide using satellite multispectral data (Japanese), 10T676
- Genetic optimization of target pressure distributions for inverse design methods, 10A1025
OBER, CC: Aerodynamics of a body immersed in a supersonic wake: A computational study, 5A1007
OBER, RJ: Infinite-dimensional continuous-time linear systems: Stability and structure analysis, 10T392
OBERMEIER, E: New analytical solution for the load-deflection of square membranes, 5A354
- Thermal conductivity measurements on thin films based on micromechanical devices, 10T472
OBERNDORFER, JM: Two approaches for truss topology optimization: A comparison for practical use, 12A833
OBI, AI: Frictional characteristics of fatty-based oils in wire drawing, 12A925
OBI, S: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126
OBIKAWA, T: Analytical prediction of cutting performances of grooved rake face tools (Japanese), 3A616
- Change of mechanical characteristics in machined layer with machining sequence (Japanese), 4T634
- Energy flowing rate into workpiece surface grinding based on 3D temperature analysis - 1st report: Discussion on temperature distribution in workpiece measured by hole method (Japanese), 7A751
- In-process monitoring of tool damage by active method: Behavior of damping ratio with tool wear development (Japanese), 7A805
- Computational machining of titanium alloy: FE modeling and a few results, 11A17
- Recent progress of computer aided simulation of chip flow and tool damage in metal machining, 11A599
OBLA, KH: Novel technique for fiber-matrix bond strength determination for rupturing fibers, 1A533
OBLAK, MM: Shape optimal design of elastic planar frames with nonlinear response, 2A732
OBROVIC, B: Equations of ionized gas boundary layer and their parametric solutions, 12A1157
OBRUTSKY, LS: Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, 6A700
OCALI, O: Robust adaptive stabilization of a class of systems under structured nonlinear perturbations with application to interconnected systems, 8T265
OCHI, K-I: Constraint effect of crack due to clad material (Japanese), 9A845
OCHI, T: Field testing on nonsalt solar ponds, 9A1420
OCHI, Y: Pole placement in optimal regulator by continuous pole-shifting, 4A356
- Pole assignment for optimal regulators with a non-negative definite weighting matrix, 12T356
OCHIAI, H: Evaluation of deformation-strength properties of in-situ cement-treated soils (Japanese), 2A531
- Stability analysis on earth reinforcement by using the velocity field method (Japanese), 2A521
- Pull-out resistance of geogrids in reinforced soil, 12A664
OCHIAI, S: Mechanical Properties of Metallic Composites - Materials Engineering Series, 7, 8N17
OCHIAI, Y: Generation of free-form surface in CAD for dies, 1A436
- Generation of free-form surface in CAD for dies (Japanese), 2A821
- Axisymmetric heat-conduction analysis under steady state by improved multiple-reciprocity BEM, 2A1131
- Steady thermal stress analysis by improved multiple-reciprocity BEM, 5A1199
- Generation method of distributed data for FEM analysis, 7A41
- Two-dimensional thermal stress analysis under unsteady state by the improved BEM, 8A1240
- Axisymmetric thermal stress analysis in the steady state with heat generation in the region by BEM, 10A1343
OCHMANN, M: Source simulation technique for acoustic radiation problems, 7A343
OCHOA, OO: Modeling progressive damage in composites: A shear deformable element for ABAQUS, 9A77
- Analytical and experimental mechanics of woven fabric composites, 11A464
OCHOA-TAPIA, JA: Momentum transfer at the boundary between a porous medium and a homogeneous fluid - II: Comparison with experiment, 1A1355
- Momentum transfer at the boundary between a porous medium and a homogeneous fluid - I: Theoretical development, 1A1354
OCKENDON, H: Multi-mode resonances in fluids, 11A211
OCKENDON, JR: Multi-mode resonances in fluids, 11A211
OCKIER, CJ: Flight evaluation of the new handling qualities criteria using the BO 105, 7A983
OCKUNZZI, KA: OH imaging in a lean burning high-pressure combustor, 8T1259
OCONE, D: Asymptotic stability of the optimal filter with respect to its initial condition, 7T370
OCONE, R: Grain inertia and fluid viscosity dominated granular flow rheology: A thermodynamic analysis, 2A837
ODA, E: Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), 2A691
ODA, GA: Dimerized island chains in tokamaks, 3A984
ODA, H: Formulation of moment-thrust-curvature relations for locally buckled unstiffened steel box stub-columns (Japanese), 1A643
ODA, K: Efficient and accurate determination of mode I type 3D surface crack by measuring strain around the crack on the idea of the body force method, 6A691
ODA, M: Distinct element method with the effect of moment transfer at the contact points (Japanese), 7A713
ODA, S: Friction and wear characteristics of gears in high vacuum, 12A956
ODA, Y: Railgun pellet injection system for fusion experimental devices, 4T857
ODAJIMA, S: Stress-strain curve and Young's modulus of a collagen molecule as determined by the X-ray diffraction technique, 8A1431
ODEFEY, ML: Guidance and Control 1996: Advances in the Astronautical Sciences, Volume 92 - Proc of Annual Rocky Mountain Guidance and Control Conf, Breckenridge, CO, February, 1996, 10N15
ODEN, JT: High-order Taylor-Galerkin methods for linear hyperbolic systems, 1A59
- Problem decomposition for adaptive hp FEMs, 2A27
- hp-version discontinuous Galerkin methods for hyperbolic conservation laws: A parallel adaptive strategy, 4A31
- Massively-parallel computation for acoustical-scattering problems using BEMs, 9A364
- Parallel hp-adaptive discontinuous Galerkin method for hyperbolic conservation laws, 12A80
- A priori error estimations of hp-FE approximations for hierarchical models of plate- and shell-like structures, 12A604
ODESSKY, V: Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, 10A1014
ODGAARD, AJ: Applications of conformal mapping to diverging open channel flows, 12A1018
ODMAN, S: Fiber optic strain gauge linearization, 1A849
ODUM, JK: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
OEHLERS, DJ: Residual strength approach to fatigue design and analysis, 1A887
OERTEL, K: Investigation of control and simulation of solar process heat plants using a flexible test facility, 8A1386
OESTERLE, B: Simple description of some inertia effects in the behavior of heavy particles in a turbulent gas flow, 11A928
OESTREICH, M: Bifurcation and stability analysis for a non-smooth friction oscillator, 10A95
OFFERMANN, S: Thermoelastic stress analysis with standard thermographic equipment by means of statistical noise rejection, 10T1346
OGAMI, Y: Simulations of unsteady compressible fluid motion by an interactive cored particle method, 2A913
OGARKOV, SA: Model of the layered plate with nonideal contact of the layers (Russian), 7A568
OGASAWARA, Y: Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, 6A119
OGAWA, H: Simulative analyses of dynamic buckling of bellows, 10A637
OGAWA, K: Monitoring of friction welded joint performance using bonding evaluation factor, 7T480
OGAWA, M: Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, 12A1228
OGAWA, N: Experimental study on seismic responses of piping systems with friction - Part I: Large-scale shaking table vibration test, 5A1320
OGAWA, S: Inverse analysis of a regional groundwater flow model by extended Bayesian method: In case of steady flow data (Japanese), 10T1063
OGAWA, T: Aerodynamics of high speed trains passing by each other, 4A970
- Distribution of tensile strength and its simulation in long-carbon-fiber reinforced plastic (Japanese), 4A485
- Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, 9A760
OGAWA, Y: Application of a non-equilibrium suspended sediment model into the Tenryu-Gawa river (Japanese), 3T883
OGBONNA, N: Transient creep analysis of ball indentation, 2A385
OGDEN, RR: Destabilizing nature of differential rotation, 11T984
OGDEN, RW: Influence of shear strain and hydrostatic stress on stability and elastic waves in a layer, 9A265
OGEMAN, RT: Residual stresses at a longitudinal stiffener-web frame intersection and their effects on crack growth, 2A572
OGI, H: Ultrasonic diffraction from a transducer with arbitrary geometry and strength distribution, 1A332
OGI, T: Effect of multisensory integration for scientific data sensualization, 12A1483
OGIHARA, S: Interaction between transverse cracks and delamination during damage progress in CFRP cross-ply laminates, 3A697
- Microscopic fatigue damage progress in CFRP cross-ply laminates, 4A672
OGIN, SL: Internal stresses in planar random fiber aluminum composites - I: Tensile tests and cyclic Bauschinger experiments at room temperature and 77 K, 4A500
- Internal stresses in planar random fiber aluminum composites - II: Mean stress hardening and relaxation, 4A501
OGINO, F: Heat transfer from a hot rock to water flowing through a crack, 4A1170
OGOT, MM: Effective mixed annealing-heuristic algorithm for problems in mechanical design, 5A857
OGRODNIK, PJ: Steady load-carrying capacity of recessed hydrodynamic bearings, 4T1124
- Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, 7T1186
- Novel variable impedance hydrodynamic oil-film bearing - Part 1: Theoretical modeling, 7A1185
OGUNFUNMI, K: Shear resistance of gypsum sheathed light-gauge steel stud walls, 10A937
OGUNI, K: Unstable propagation of a phase transition in a solid, 4A1322
OGURA, H: Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, 3A564
- Electrostatic wobble motor (Japanese), 3T397
OGURA, K: Laser-strain and displacement measurement for fracture mechanics research (Japanese), 1T841
OGUT, A: Fluid Machinery - 1995 ASME/JSME Fluids Eng Conf, 2N37
OH , S-T: Seismic behavior of steel frame with added viscoelastic dampers, 2A1245
OH, CK: Effects of initial conditions on spatially evolving compressible shear layer simulations, 12T1075
- Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, 12A67
OH, HS: Simple error estimator for size and distortion of 2D isoparametric FEs, 10A23
OH, HUNG-KUK: Determination of ductile fracture (ductility) at any stress state by means of the uniaxial tensile test, 3A480

- Determination of fracture toughness by means of the uniaxial tensile test, 6A690
- Note on the effect of the mean stress in a new fatigue theory, 6A613
- Characterization of dynamic fatigue life by the uniaxial tensile test, 6A609

OH, HWA-SUK: Spinup maneuver and nonlinear active nutation damping, 11T82

OH, S: Output feedback stabilization using variable structure control, 2T282

OH, SEBOONG: Anisotropic hardening constitutive model based on generalized isotropic hardening rule for modeling clay behavior, 3A570

OH, SJ: Surface roughness measurement by ultrasonic sensing for in-process monitoring, 5A684

OH, YJ: Numerical analysis of molten metal shape in cold crucibles by 3D FEM, 8A1170

OHADI , MM: Literature survey on numerical heat transfer: 1992-1993, 10A1273

OHADI, MM: Advances in Enhanced Heat-Mass Transfer and Energy Efficiency, HTD-Vol 320-Vol 1 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 5N28

- Flow boiling heat transfer coefficients of R-134a in a microfin tube, 11T1168

OHAMA, M: Geometric axis bending strength of double angle beams, 12A588

OHAMA, Y: Flexural behavior and durability of ferrocement with polymer-modified paste coatings on reinforcements, 8A750

OHASHI, H: Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), 11A779

OHASHI, K: Transient temperature response of functionally gradient material subjected to partial stepwise heating, 7A1246

OHATA, M: Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), 12A776

OHAYON, R: Fluid Structure Interaction: Applied Numerical Methods, 1R5

OHBA, K: Bio-Medical Fluid Engineering - 1995 ASME/JSME Fluids Eng Conf, 1N39

- High-speed observations of highly erosive vortex cavitation using image processing, 5T872
- Visualization and quantitative measurement of thin liquid film (Japanese), 12T1202

OHBO, N: Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), 1A1390

OHBUCHI, Y: Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550

- In-process measurement of wear of abrasive grain - 2nd Report: Binary image-acquisition system for wear flat of cutting edge (Japanese), 7A1004

OHDO, K: Weather influenced on constructability of tall structures (Japanese), 10A938

OHE, A: Analysis of overshooting phenomena in profile measurement by optical stylus sensor (Japanese), 7A871

OHGA, M: Vibration analysis of curved panels with variable thickness, 11A116

OHHASHI, I: Development of 300 kW class ceramic gas turbine (CGT303), 5A1274

OHHATA, H: Computer simulation of 3D machining with cut-away tools, 1T721

- Simulation analysis of 3D continuous chip formation process - 3rd Report: Effects of tool geometry on chip flow and tool wear (Japanese), 11A601
- Simulation analysis of 3D continuous chip formation processes - Fourth Report: Effects of workpiece and tool materials properties on 3D cutting mechanism (Japanese), 12A690

OHIRA, T: Complex dynamics and multistability in a damped harmonic oscillator with delayed negative feedback, 5A90

OHJI, K: Thermal residual stresses in bonded dissimilar materials and their singularities, 10A1340

OHKAWA, H: CMP planarization: Process, Machine, and consumables (Japanese), 11T613

OHKAWA, Y: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871

OHKUBO, S: Elastic-plastic hysteresis analysis of truss structures subject to fluctuating loads based on energy principle (Japanese), 1A915

OHKUSU, M: Advances in Marine Hydrodynamics - Advances in Fluid Mechanics Series, 8N27

OHL, GL: Fundamental factors in the design of a fast-responding methanol-to-hydrogen steam reformer for transportation applications, 12A1326

OHLMEYER, EJ: Root-mean-square miss distance of proportional navigation missile against sinusoidal target, 11T318

OHLSEN, DR: Symmetry, sidewalls, and the transition to chaos in baroclinic systems, 4A128

OHMACHI, T: Evaluation of dynamic interaction effects of 2D dam-foundation-reservoir systems (Japanese), 1A913

- Smoothing function suitable for estimation of amplification factor of the surface ground from microtremor and its application (Japanese), 5T1333

OHMAE, N: Exoelectrons and tribology, 10T962

OHMAN, LH: Probe interference on flow measurements in propeller near slipstream, 1T1143

OHMURA, E: Giant magnetostriction actuator of laminated plate type (Japanese), 1A421

- Study on thermal shock phenomena due to laser irradiation using molecular dynamics, 3T1177
- Study of fusing and vaporizing-process of foc metal due to laser irradiation: Molecular dynamics simulation (Japanese), 4A662

OHNABE, H: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, 1A1139

OHNAMI, M: Nonproportional low cycle fatigue criterion for type 304 stainless steel, 5A597

- Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), 7A895
- Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), 12A519
- Development of multiaxial creep testing machine using cruciform specimen (Japanese), 12A783

OHNISHI, K: Fast collision-free path planning for translating mobiler in 3D space (Japanese), 5A377

OHNISHI, N: Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, 12A1239

OHNISHI, O: Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), 12A687

OHNISHI, Y: Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), 9A554

OHNO, K: Simulative analyses of dynamic buckling of bellows, 10A637

- Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, 11A1453
- Research on simplification of opposed dies shearing process utilizing differential pressure, 12A683

OHNO, N: Thermal ratcheting of a cylinder subjected to a moving temperature front: Effects of kinematic hardening rules on the analysis, 11A457

OHNO, Y: Superfinishing of fine ceramics: Influence of grain size on finishing performance (Japanese), 9A739

OHORI, M: Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, 11A1386

OHRUI, S: Experimental verification of bounded-force control method, 7A1378

OHSAKI, M: Sensitivity analysis of bifurcation load of finite-dimensional symmetric systems, 10A642

OHSHIMA, N: Viscoelastic properties of cultured porcine aortic endothelial cells exposed to shear stress, 8A1430

OHSHITA, H: Time dependent behavior of concrete in early ages and its modeling (Japanese), 2A415

- Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), 4T644
- Mathematical modeling for permeable behavior of non-homogeneous material and its applicabilities (Japanese), 6A1178
- Analytical study on predicting pore water pressure occuring in concrete and its effects (Japanese), 6A959

OHTA, H: Vibration characteristics of tapered roller bearings, 7A204

- Stress analysis of transistor structures considering the internal stress of thin films, 10A580
- Vibrations of hybrid ceramic ball bearings, 10A221

OHTA, M: Stochastic response evaluation using the digital filter supported by method for a double-wall-type sound insulation system excited by the actual music sound, 1A342

- Stability of solitary waves for coupled nonlinear Schrodinger equations, 5T174

OHTA, T: Fundamental study on the thermal properties of concrete structural members under external high temperature loading (Japanese), 9A1276

OHTA, Y: Participation of inert species in air in piston-compression ignition, 11T1304

OHTANI , R: Physical meaning of creep damage parameters evaluated from distribution of grain boundary cavities on cross-section (Japanese), 7A794

OHTANI, R: Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, 3A664

- Probabilistic inverse analysis for predicting the distribution of multiple internal defects, 4A693
- Analysis of direct current potential field around multiple random cracks, 10A865

OHTANI, T: Face milling of Inconel 718 with cemented carbide tools, 1T723

- Determination of all elastic constants of orthotropic plate specimens from group velocity data, 6T693

OHTANI, W: Centrifugal model test for reducing the earth pressure on the rigid culvert (Japanese), 7A710

OHTANI, Y: Behavior of steel-to-concrete connections under combined axial force and cyclic bending, 7A963

OHTOMO, A: Torsion of compound cylinder with an external annular crack, 7A497

OHTOMO, S: Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), 4A863

OHTSU, M: Evaluation of deterioration in concrete by stochastic analysis of acoustic emission activity under uniaxial compression (Japanese), 2A607

OHTSUKA, T: Design of stabilizing control laws for mechanical systems based on Lyapunov's method, 6A299

- Nonlinear receding-horizon state estimation by real-time optimization technique, 12A329

OHTSUKI, T: Effectiveness of tuned liquid dampers under wind excitation, 4A216

OHTSUKI, Y: Development of a small actuator with three degrees of rotational freedom - 3rd Report: Design and experiment of a spherical actuator (Japanese), 11A369

- Diamond synthesis on a substrate rotated at high speed (Japanese), 12A685

OHUCHI, H: Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), 2T755

- Position and force control of pneumatic cylinder with ultrasonic PWM valves: First Report - Evaluation of control system by numerical simulation and experiments (Japanese), 3A412

OHUCHI, M: Stress level and soil structure effects on bearing capacity characteristics of naturally deposited sand (Japanese), 7A704

OHWA, Y: Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, 9A1016

OHWADA, T: Numerical analysis of the shear and thermal creep flows of a rarefied gas over the plane wall of a Maxwell-type boundary on the basis of the linearized Boltzmann equation for hard-sphere molecules, 10T1112

OHYAMA, T: Study of the transient sou d radiated by impacted solid bodies based on the BEM, 12A276

OI, S: Inertia effects on film rupture in hydrodynamic lubrication, 5A1092

OI, Y: Stochastic analysis of fatigue lives of reinforced concrete subjected to cyclic bending moment (Japanese), 6A754

OI, YOSHIYUKI: Residual compressive strength of concrete under constant cyclic loads and reliability analysis of reinforced concrete column (Japanese), 2A762

OIDA, A: Measurement of forces acting on 4WD-4WS tractor tires during steady-state circular turning in a rice field, 10A684

OIDE, S-I: Trinomial generalized cantor set model for isotropic turbulence, 10A1174

OIKAWA, K: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, 1A1138

OISHI, N: Periodic thermal deformation of large seal ring, 12A965

OISHI, Y: Computation-oriented expression of a non-conservative condition for robust stability of sampled-data systems, 3T318

OJHA, SN: Weak discontinuities in a chemically reacting atmosphere, 3A917

- Anisotropic wave propagation in radiating gases, 11A207

OKA, F: Strain localization analysis using a viscoplastic softening model for clay, 1A695

- Validity and limits of the effective stress concept in geomechanics, 11A563
- Dispersion and wave propagation in discrete and continuous models for granular materials, 11A173

OKA, N: Transient heat conduction and thermal stress problems of a nonhomegeneous plate with temperature-dependent material properties, 7A1243

OKA, S: Advanced technology development and critical processes and research topic for bubbling FBC boiler design, 12T1270

OKA, Y: Numerical analysis of deterioration phenomena in heat transfer to supercritical water, 1A1206

- Development of cryosorption pump for neutral beam injector, 11A1051

OKABAYASHI, K: Centrifugal model test for reducing the earth pressure on the rigid culvert (Japanese), 7A710

OKABAYASI, T: Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), 5A106

OKABE, N: Cyclic Fatigue in Ceramics - Current Japanese Materials Research, Vol 14, 7N14

OKABE, S: Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), 1A428

- Development of mechanical systems for micro-bonding by adhesive: Proposal of micro-application technology of adhesive resin, 12A970

OKADA, H: Development of new spatially curved frame FE for crash analysis - Part 1: Formulation and validation, 5A192

OKADA, K: Lubrication theory for fluids with microstructure, 4A1122

- Effect of errors in deflection readings and pavement model on backcalculated layer moduli (Japanese), 6A765

OKADA, M: Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, 1A1373

- Characteristics of a plate-fin heat exchanger with phase change materials, 2A1139

OKADA, T: Stress and failure analysis for cross-plied curved composite laminates, 4T510

- Shaking table tests of 3D scale models of reinforced concrete high-rise frame structures with wall columns, 5A1329
- Calculation method for design shear capacity for slurry wall member with joint (Japanese), 9A305

OKADA, Y: Self-sensing active vibration control using the moving-coil-type actuator, 5A700

OKAKI, B: Development of gravel drain system as a countermeasure for soil liquefaction (Japanese), 4T605

OKAMOTO, H: Axisymmetric stagnation flow converging obliquely on a cylinder, 1A989

- Numerical computation of vortex sheet roll-up in the background shear flow, 8A884

OKAMOTO, K: New tracking algorithm for particle image velocimetry, 3A1009

OKAMOTO, M: Theoretical turbulence modeling of homogeneous decaying flow in a rotating frame, 1A1077

OKAMOTO, N: Development of contact stress analysis programs using the hybrid method of FEM and BEM, 1A460

- Development of contact stress analysis programs using the hybrid method of FEM and BEM, 3A434
- Computational study of contact mechanics between magnetic recording heads and thin-film disks, 8A792

OKAMOTO, S: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, 1A1138

- Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, 1A1139
- Experimental study of FPS system in bridge seismic isolation, 6A1280
- Experimental study of bridge seismic sliding isolation systems, 8A145
- Stress transfer mechanism of socket base connections with precast concrete columns, 11A763

OKAMOTO, Y: Surface temperature measurement using infrared radiometer by applying a pseudo-gray-body approximation: Estimation of radiative property for metal surface, 8A1187

- Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, 8A655

OKAMURA, H: Distribution of rainflow range for Gaussian random processes with bimodal PSD, 3A58

- Development of self-compacting high performance concrete (Japanese), 4T806
- Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336

OKAMURA, M: Long time evolution of standing gravity waves in deep water, 11A195

OKAMURA, S: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150

OKANO, K: Micro-grinding of micro-machine component (Japanese), 4T646

OKANO, T: Interaural cross-correlation, lateral fraction, and low- and high-frequency sound levels as measures of acoustical quality in concert halls, 1A336

OKANO, Y: Effect of growth atmosphere on convection in $LiTaO_3$ melt, 7A1224

OKAYA, D: Frequency-time decomposition of seismic data using wavelet-based methods, 3A1290

OKAZAKI, S: Corrosion resistible coating with combination of ion plating and heat treatment for molten carbonate fuel cell separator, 6A620

OKAZAKI, Y: Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), 4A863

OKI, S-I: Wave equation over permeable rippled bed and analysis of Bragg scattering of surface gravity waves, 7A270

OKI, T: Atmospheric water balance and global hydrologic cycle (Japanese), 3A1342

OKI, Y: New hybrid-streamline-upwind FEM in dual space: Fundamental theory and discrete Del operator, 7T31

OKIISHI, TH: Improved aspirating probe for total-temperature and total-pressure measurements in compressor flows, 5A1082

OKINE, RJ: Transient rheological behavior of a long discontinuous fiber-melt system, 12A1013

OKINO, H: Effects of cardiac infarction on realistic 3D left ventricular blood ejection, 9A1447

OKOROAFOR, EU: Weibull statistics of fiber bundle failure using mechanical and acoustic emission testing: The influence of interfiber friction, 1A824

OKRASINSKI, W: Asymptotic behavior of the interface of some nonlinear diffusion problems, 8A1242

OKSANEN, A: Combustion-generated NO_x and coke in heavy-residual fuel oil combustion, 8A1254

OKSENDAL, B: Fluid flow in a medium distorted by a quasiconformal map can produce fractal boundaries, 8A1311
OKUBO, M: Bubble behavior in magnetic fluid under a nonuniform magnetic field, 1T1092
- Basic study on an energy conversion system using gas-liquid two-phase flows of magnetic fluid: Analysis on the mechanism of pressure rise, 7A1147
OKUDA, H: Finite element solutions with feedback network mechanism through direct minimization of energy functionals, 8A35
OKUDA, K: Calculation of the fractal dimensions of machined surface profiles, 10A989
OKUI, T: Outdoor robots system for autonomous mobile all-purpose platform, 11T376
OKUKAWA, A: Local stress and fatigue strength of the joint between longitudinal and transverse ribs in orthotropic steel deck plate (Japanese), 1A616
OKUMURA , M: Bimaterial plane with elliptic hole under uniform tension normal to the interface, 2A641
OKUMURA, IA: Generalization of Cerruti's problem in an elastic half-space, 1A463
OKUNO, T: Shock tube and modeling study of ketene oxidation, 12A1309
OKUNO, TETSU: Determination and renewal of the optimum pumping rates for dewatering during excavation based on Bayesian decision theory and observational method (Japanese), 4A622
OKURA, I: Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), 5A688
- Fatigue strength of drilled holes under membrane and plate-bending stresses (Japanese), 11A641
OKUYAMA, E: Non-contact measurement of a gear (4th Report): Development of a measuring system for tooth profiles using the optical 2 point method (Japanese), 5T822
OKUYAMA, S: Study on the motion errors of NC surface grinding machine: Static accuracies versus circular motion errors (Japanese), 5A579
- Study on the motion errors of NC surface grinding machine: Method for measuring the motion errors under the circular interpolation, 9A716
OL'KHOVIK, O: Identification of static strength criteria, 10A766
OLABI, AG: Effect of post-weld heat-treatment on mechanical-properties and residual-stresses mapping in welded structural steel, 7A1028
OLAFSSON, S: Simulation of earthquake ground motion and structural response, 1A1403
OLAGUNJU, DO: Elastic instabilities in cone-and-plate flow: Small gap theory, 5A426
OLAJOSSY, A: Nature and meaning of forces occurring in the problems of gravitational enrichment, 3A1355
- Nonstationary states in gravitational separators: Fokker-Planck equation, 9A1413
OLBRICHT, WL: Pore-scale prototypes of multiphase flow in porous media, 6A945
OLCMEN, MS: Experimental study of a 3D pressure-driven turbulent boundary layer, 12T1149
OLDENBURG, CM: Mixing with first-order decay in variable-velocity porous media flow, 9A1354
OLDHAM, DJ: Determination of the directivity of a planar noise source by means of nearfield acoustical holography - Part III: Measurements on homogeneous, profiled and composite panels, 7A359
OLECH, B: Implementation of a new coding scheme for ray tracing subdivision algorithms, 10A70
OLEJNICZAK, M: Problem of bending of fiber composite viscoelastic plates, 9A596
OLEK, S: Pressure perturbations method for analysis of transient compressible gas flow around wells in porous media, 1T1356
OLEKSY, A: Damage development in boundary layers of Mindlin-Reissner plates, 9A602
OLESIAK, ZS: Boundary value problems in fracture of elastic composites, 5A636
OLESKY, A: Damage development in boundary layers of Mindlin-Reissner plates, 3A715
OLEVSKY, E: Hiping conditions for processing of metal matrix composites using the continuum theory for sintering - I: Theoretical analysis, 6A582
- Hiping conditions for processing of metal matrix composites using continuum theory for sintering - II: Application to fiber reinforced titanium alloys, 6A583
OLGAC, N: Introduction to the dual frequency fixed delayed resonator, 7A914
OLGAC, SS: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
OLHOFF, N: Structural and Multidisciplinary Optimization - Proc of 1st World Congress of Structural and Multidisciplinary Optimization, May 28 - June 2, 1995, Goslar, Germany, 3N25
- Optimum design of structures and materials, 11A731
OLIA, M: Hybrid effect and matrix yielding at fiber breaks in hybrid composite sheets, 6A403
- Analysis of adhesively bonded joints with gaps subjected to bending, 11A829
OLIFERUK, W: Application of infrared radiation detection to the metal behavior investigation under mechanical loading, 10A564
OLIGER, J: Time Dependent Problems and Difference Methods - Pure and Applied Mechanics Series, 9R1
- Stability and error estimation for component adaptive grid methods, 12A50
OLIMPIEV, VV: Analysis of calculation data with the use of the model of internal heat-releasing boundary layers and the resistance of tubes with circular lateral bulges, 11A955
OLINGER, DJ: Delta wing vortex control via recessed angled spanwise blowing, 1A1101
- Control of pressure oscillations in deep cavities excited by grazing flow, 7A318
OLIVA, A: Thermal and fluid-dynamic behavior of double-pipe condensers and evaporators: A numerical study, 4A1218
OLIVAS, JD: Buckling of filament-wound cylindrical vessels subjected to external pressure, 10A631
OLIVEIRA, FMF: Mechanical behavior of cementitious matrix composites, 10A570
OLIVEIRA, LA: Control-volume based FEM for 3D incompressible turbulent fluid flow, heat transfer, and related phenomena, 2A12
OLIVER, J: Seismic evaluation of concrete dams via continuum damage models, 1A1398
- Continuum modeling of strong discontinuities in solid mechanics using damage models, 6A383
OLIVER, JH: Synthesis of spatially and intrinsically constrained curves using simulated annealing, 8A824
OLIVER, LD: Boundary condition sensitivity analysis of the stochastic flow equation, 5A1335
OLIVER, WC: Influences of stress on the measurement of mechanical properties using nanoindentation - Part I: Experimental studies in an aluminium alloy, 8A692
- Influence of stress on the measurement of mechanical properties using nanoindentation - Part II: FE Simulations, 8A697
OLIVERI, F: Dynamics and wave propagation in dilatant granular materials, 2A159
OLIVERI, SM: Thermal infrared analysis of plastics under monoaxial loads, 7A1043
OLIVES, J: Combined capillarity and elasticity problem for a thin plate, 9A314
OLIVETO, G: Sinusoidal stiffness matrix for buckling and vibration analyses of rectangular Mindlin plates, 4A172
- Complex modal analysis of a continuous model with radiation damping, 10A657
- Time domain response of a 1D soil-structure interacting model via complex analysis, 10A661
OLIVIER, H: Influence of the velocity gradient on the stagnation point heating in hypersonic flow, 5T900
OLIVIER, M-G: Adsorption of propane, propylene, and propadiene on activated carbon, 8A1372
OLIVITO, RS: Ultrasonic measurements in wood, 9A869
OLIYNIK, VN: Sound radiation by a cylindrical piezoelastic shell with an asymmetric insertion, 6A234
OLLER, S: Coupled thermomechanical model for the solidification of cast metals, 5A1185
- Coupled plastic-damaged model, 8A607
- Plastic damage constitutive model for composite materials, 11A660
OLLEY, P: Repair learning for a working knowledge-based system, 2A345
OLLIVIER-GOOCH, CF: Multigrid acceleration of an upwind Euler solver on unstructured meshes, 3A921
OLMOS, F: Finite element resolution of convection-diffusion equations with interior and boundary layers, 9A40
OLOFSSON, K: Generating and recording transient bending waves in plates by pulsed lasers, 7T247
OLOFSSON, U: Cyclic micro-slip under unlubricated conditions, 4A838
- Response spectrum methods in tank-vehicle design, 5A153
OLOWOKERE, DO: Evaluation of stress intensity factors for steel tubular T-joints using line spring and shell elements, 2A619
OLSEN, KB: Simulation of 3D elastic wave propagation in the Salt Lake Basin, 6A1231
- Three-dimensional simulation of earthquakes of the Los Angeles fault system, 12A1390
OLSETH, JA: Spatially continuous mapping of solar resources in a complex high latitude topography, 5A1357
- Estimation of atmospheric radiation from surface meteorological data, 11A1426
OLSON, DL: Designing shielded metal arc consumables for underwater wet welding in offshore applications, 5A859
OLSON, GB: Homogeneous nucleation of a solid-solid dilatational phase transformation, 8A508
OLSON, JR: Loaded thermoacoustic engine, 3A1247
OLSON, L: Singular function boundary integral method for the Laplace equation, 8A60
OLSON, LD: Advanced NDT methods for evaluating concrete bridges and other structures, 6A766
OLSON, MD: Rigid-pastic analysis of underwater blast loaded stiffened plates, 1A508
OLSON, SM: Liquefaction resistance using CPT and field case histories, 6A532
OLSON, WW: Predictive heat generation model in orthogonal cutting visco-plastic material, 9A709
- Development of anti-lock braking traction and control systems of the Advanced Technology Demonstrator II using DADS simulation code, 11A324
OLSSON , A: Valve-less planar pump isotropically etched in silicon, 10T473
OLSSON, J: Experimental verification of interference-free testing concept for vehicles with propulsive jets, 12A865
OLSSON, M: Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix, 2A447
OLSSON, MG: Classical Mechanics: A Modern Perspective, Second Edition, 3R6
OLSSON, R: Improved theory for contact indentation of sandwich panels, 11A521
OLSSON, WA: Development of anisotrophy in the incremental shear moduli for rock undergoing inelastic deformation, 2A533
OLTROGGE, DL: Compact finite burn targeting and reconstruction algorithm, 12T382
OLUKOKO, OA: Boundary element analysis of heat conduction and thermal stresses in contact problems using independent meshing, 9A1267
OLUMOLADE, MO: Reactive scheduling system for cellular manufacturing with failure-prone machines, 8T370
OLVER, AV: Limitations of thin film microtransducers in highly loaded contacts, 6T799
OLYNICK, DR: Comparison of coupled radiative flow solutions with Project Fire II flight data, 3A1134
OMINE, K: Evaluation of deformation-strength properties of in-situ cement-treated soils (Japanese), 2A531
OMIROU , SL: Three-dimensional circular interpolation for CNC machines, 11A602
OMPRAKASH, S: Finite element analysis of Mode III quasi-static crack growth at a ductile-brittle interface, 9A848
OMRANI, S: Nonexistence result for traveling front solutions in a cylindrical domain, 4T232
ONA, H: Life test of ceramic ball bearings by staircase method, 7T476
- Life test of ceramic ball bearings by staircase method (Japanese), 7A1002
ONAKA, S: Elastic state and orientation of needle-shaped inclusions, 8A383
ONATE, E: Coupled thermomechanical model for the solidification of cast metals, 5A1185
- New assumed strain triangles for nonlinear shell analysis, 6A482
- Boundary conditions for FE simulations of convective flows with artificial boundaries, 9A1304
- Numerical modeling and simulation of frictional contact using a generalized Coulomb law, 9A993
- Petrov-Galerkin methods for the transient advective-diffusive equation with sharp gradients, 10A1355
- Plastic damage constitutive model for composite materials, 11A660
ONCHI, Y: Cutting mechanism of superfinishing by fine CBN stone (Japanese), 12A694
ONCLEY, S: Lighthill relationship and sound generation from isotropic turbulence, 2A216
ONG'IRO, A: Thermodynamic simulation and evaluation of a steam CHP plant using ASPEN plus, 6A1062
ONG, BG: Probablistic approach to fatigue life prediction of repaired reinforced concrete slabs, 3A780
ONG, CHONG JIN: Computation of penetration between smooth convex objects in 3D space, 10A488
ONG, KCG: Probablistic approach to fatigue life prediction of repaired reinforced concrete slabs, 3A780
ONG, KS: Thermal performance of solar air heaters: Mathematical model and solution procedure, 1A1422
- Thermal performance of solar air heaters: Experimental correlation, 3A1373
ONG, L: Velocity field of the turbulent very near wake of a circular cylinder, 10A1160
ONG, LS: Cylindrical shell subject to local loads applied on an arbitrarily shaped area, 8A491
ONG, SK: Process modeling and formulation for the development of an intelligent set-up planning system, 4A418
ONIKURA, H: Effects of ultrasonic vibration on machining accuracy in microdrilling (Japanese), 12A687
ONISHI, Y: Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
ONISI, M: Effects of surface treatment on the bending-fatigue strength of carburized spur gears, 9A755
ONO, A: Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743
ONO, F: Experimental studies of supersonic film cooling with shock wave interaction, 7A1096
ONO, K: Numerical and experimental study of the propulsive speed of the three-joint bending propulsion mechanism, 9A1456
ONO, M: Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), 5A1315
- Development of optical apparatus for measuring small hole diameter (Japanese), 7A873
ONO, S: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
- Development of precooling method using frozen sand (sandprecool method) (Japanese), 4T1206
- Non-destructive testings and their feasibility study in concrete structures (Japanese), 4A816
- Force transmission mechanism and fatigue behavior of a pin-connection anchor of hanger for a long-span suspension bridge (Japanese), 11A779
ONO, SHUJI: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
ONO, T: Linear robust control of nonlinear systems: Elevation control of hovercraft via multi-sectional control, 6A295
ONODA, J: Alternative control logic for type-II variable-stiffness system, 6T118
- Semiactive vibration suppression by variable-damping members, 7A138
- Two-dimensional deployable hexapod truss, 12A869
ONODERA, O: Experimental investigation on tunnel sonic boom, 3T208
ONODERA, Y: Development of a novel technique to measure rock mass behavior in a borehole (Japanese), 7A718
ONOFRI, M: Analysis of unsteady supersonic viscous flows by a shock-fitting technique, 12A1074
ONORATO, M: Turbulent boundary layer manipulation by outer-layer devices, 2A984
ONORO , J: Analysis on the use of DCB specimens in fatigue crack growth testing, 9A748
ONOSATO, M: New trends in manufacturing systems (Japanese), 7T481
- Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486
ONOZUKA, M: Railgun pellet injection system for fusion experimental devices, 4T857
ONU, G: Equivalences in the soil-structure interaction, 3A583
ONYEJEKWE, OO: Green element simulations of the transient nonlinear unsaturated flow equation, 3A47
ONYSHKEVICH, VM: Interaction of a rigid cylinder with elastic half-space under heat formation on the contact area, 7T507
ONYSHKEVYCH, VM: Plane contact problem with heat generation account of friction, 5A794
ONYSHKO, S: Extended integral method to derive Lyapunov functions for nonlinear systems, 2T248
ONYSYK, J: Random simulation of material effort of precast RC beam spans (Polish), 10A908
ONZAWA, T: Influence of the stiffness of the measurement system on the elastic adhesional contact, 3A872
- Effect of the stiffness of the measurement system on adhesion force curves in the elastic continuum limit, 8A391
OOI, JY: Rigorous statistical technique for inferring circular silo wall pressures from wall strain measurements, 8A784
- Local stiffening effect of "double deck" bending strain gauges - Part 1, 10A872
- Local stiffening effect of "double deck" bending strain gauges - Part 2, 12A805
OOI, KIM-TIOW: Analysis of vane-spring structures, 1A598
OOI, KT: Calibration technique for a parallel-wire depth probe with conductivity compensation, 10A1235
- Adiabatic capillary tube expansion devices: A comparison of the homogeneous flow and the separated flow models, 11A865
OOKA, Y: Simulative analyses of dynamic buckling of bellows, 10A637
OORE, M: Procedure to minimize error in fatigue crack growth testing, 1A776
OORTWIJN, J: Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, 2A158
OOSTERLEE, CW: Convergence of parallel multiblock multigrid methods, 6A55
OOSTHUIZEN, PH: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3, 3N34
- Numerical study of free convective heat transfer from a heated half-cylinder in an enclosure, 3A1044
- Free convection in a horizontal enclosure partly filled with a porous medium, 3T1072
OOTAKE, N: Study of the generation mechanism and the compensation of the exponential type lost motion for feed drive system of NC machine tools (Japanese), 9T710
OOTANI, T: Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of austenitic heat-resistant steel SUH36 against FE-base sintered alloy using plane specimens, 3A827
- Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, 9A1341
OOTAO, Y: Three-dimensional transient thermal stress analysis of a nonhomogeneous hollow

circular cylinder due to a moving heat source in the axial direction, 3A1173
OOUCHI, A: NDE of a crack by using closely coupled probes for DCPD technique, 10A868
OPALICKI, M: Processing of short fiber-thermosetting matrix composites, 7A564
OPICE, S: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
OPREA, I: Application of the BEM to the magneto-hydrodynamic duct flow, 5A56
ORAL, S: Filament-wound composite links in multibody systems, 4A105
- Improved semianalytical method for sensitivity analysis, 8A712
- Optimum design of flexible multibody systems with dynamic behavior constraints, 10A1028
ORAN, ES: Scaling in buoyancy-driven turbulent premixed flames, 9A1316
- Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, 12A67
ORAVAS, GAE: Large displacement Lagrangian mechanics - Part I: Theory, 8A1
- Large displacement Lagrangian mechanics - Part II: Equilibrium principles, 8A2
ORBISON, JG: Assessment of American block shear load capacity predictions, 5A722
ORCUTT, JA: Recording teleseismic earthquakes using ocean-bottom seismographs at mid-ocean ridges, 6A1260
- Suppression of sea-floor-scattered energy using a dip-moveout approach: Application to the mid-ocean ridge environment, 11A1378
ORDAZ, M: Scheme of random summation of an empirical Green's function to estimate ground motions from future large earthquakes, 6A1267
OREN, PE: Fluid distribution and pore-scale displacement mechanisms in drainage dominated three-phase flow, 4A1305
- Dimensional analysis of pore scale and field scale immiscible displacement, 9A1373
ORENSTEIN, RM: Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, 10A1400
ORETGA, A: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 1, 3N32
ORFANOUDAKIS, NG: Evaluation of an amplitude-sizing anemometer and application to a pulverized coal burner, 8A1282
ORFI, J: Transient behavior of a $NaNO_3$ float zone operating at high Marangoni number under μ-g conditions, 1A1194
- Numerical investigation of the effects of rotation on a germanium float zone under microgravity conditions, 5A1144
ORGAN, D: Coupled FE and element-free Galerkin method, 6A24
ORIHARA, H: Dynamics of 1D periodic pattern formation on the electro-hydrodynamic convection of a nematic liquid crystal, 7A1040
ORIZIO, C: Surface mechanomyogram reflects muscle fibers twitches summation, 8T1442
ORKWIS, PD: Simulation of laminar-turbulent transition with an explicit Navier-Stokes flow solver, 4A1091
- Comparison of Baldwin-Lomax turbulence models for 2D open-cavity computations, 8T964
- Numerical issues affecting vortex asymmetries computed with the conical Navier-Stokes equations, 9A1062
- Comparison of numerical and analytical Jacobians, 11A43
ORLANDE, HRB: Transient thermal constriction resistance in a finite heat flux tube, 3T1114
- Inverse heat conduction problem for the estimation of the temperature dependence of thermal conductivity, 3A1123
ORLANDI, P: Steady columnar vortices under local compression, 2A869
- Tentative approach to the direct simulation of drag reduction by polymers, 4A1035
- Finite-difference scheme for 3D incompressible flows in cylindrical coordinates, 7A1069
- Numerical simulations of transitional axisymmetric coaxial jets, 9A1135
- Wall and vortex-ring interactions, 12A1111
- Dynamics of a vortex ring in a rotating fluid, 12A1033
ORLANDO, M: Numerical shape finding procedure for very thin shells, 2A468
ORLIKOWSKI, C: Symbolic analysis of bond graphs by application of the Coates rule, 2A81
ORLOFF, LS: Triple annual maximum series in wave climate analyses, 7T268
ORLOV, AR: Validity of safety factor according to stresses, 11A743
ORLOV, EF: Fractographic analyses of fatigue crack growth in D16T alloy subjected to biaxial cyclic loads at various R-ratios, 5T589
ORLOV, VP: Stability of zero solution of mathematical model of multidimensional barotropic viscoelastic medium, 10T533
ORLOVA, A: Constitutive description of creep curves based on internal stress evolution, 3A450
ORMISTON, RA: Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, 6A1035
ORNAI, D: Extension fracture due to collinear cracks, 10A772
ORNEK, S: Dynamic loss of stability in depth control of submersible vehicles, 9A960
ORON, A: Instability of non-wetting film with interfacial viscous stress, 2A978
- Marangoni instability in a liquid layer with two free surfaces, 4A1067
OROZCO, CE: Infeasible path optimal design methods with applications to aerodynamic shape optimization, 7A1175
ORPANA, V: ICPR '93: 12th international conference on production research, 1A443
ORPHAL, DL: Penetration of confined aluminum nitride targets by tungsten long rods at 1.5-4.5 km/s, 9A285
ORS, H: Well-posedness of the initial value problem in elasto-plastodynamics for a linear comparison solid, 2A400
ORSO, J: Stress effects of inhomogeneous expansion-controlled matrices in continuous fiber composites, 4A738
ORSZAG, SA: Extended Lagrangian particle-in-cell (ELPIC) code for inhomogeneous compressible flows, 4A596
- Numerical study of 3D Kolmogorov flow at high Reynolds numbers, 7A1135
ORTEGA , JM: SOR as a preconditioner, 4A91
ORTEGA, A: Numerical investigation of conjugate heat transfer from a flush heat source on a conductive board in laminar channel flow, 1A1181
ORTEGA, MA: Two-dimensional and axisymmetric nozzle flow computations using the Euler equations, 4A1046
ORTEGA, R: Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, 12T376
ORTIZ, K: Random Vibrations: Theory and Practice, 2R8
ORTIZ, M: Modeling and simulation of high-speed machining, 4A639
- Ductile fracture by vacancy condensation in FCC single crystals, 6A648
- Two-dimensional structure of dynamic boundary layers and shear bands in thermoviscoplastic solids, 7A536
- Three-dimensional crack-tip fields in four-point-bending copper single-crystal specimens, 12A748
ORTLAND, DA: Stellar alignment of the high resolution Doppler image, 5A242
ORYNYAK, IV: Ductile fracture of a pipe with a part-through slot, 1A791
- Phenomenological modeling of a brittle-to-ductile transition for bodies with cracks, 2A635
OSADA, T: Position and force control of pneumatic cylinder with ultrasonic PWM valves: First Report - Evaluation of control system by numerical simulation and experiments (Japanese), 3A412
OSADNIK, J: Analytical determination and computer investigation of loading distribution of drives of an armoured face conveyor with different number chain sprockets' teeth (Polish), 3A840
OSAFUNE, T: Influence of water on energy absorption of filament winding ring under lateral impact loading (Japanese), 12A548
OSAGE, DA: Failure investigation of a low chrome long-seam weld in a high-temperature refinery piping system, 5A611
OSAKA, H: Development of optical apparatus for measuring small hole diameter (Japanese), 7A873
OSAKA, K: Fiber optic method for detection of impact induced damage in composite laminates (Japanese), 3A742
OSAKA, T: High-precision grinding and turning for optics with 3D profile, 9A713
OSAKABE, M: Effect of valve lift and disk surface on two-phase critical flow at hot water relief valve, 8A930
OSAKADA, K: Inclusion of elastic deformation in rigid-plastic FE analysis, 8A24
- Simplified 3D simulation of non-isothermal filling in metal injection molding by the FEM, 11A609
OSANAI, Y: Stress transfer mechanism of socket base connections with precast concrete columns, 11A763
OSAWA, S: Measurement of 3D objects using gray code projection (Japanese), 2A705
OSBORN, JW: Features of human jaw design which maximize the bite force, 8A1409
OSBORNE, JR: Soil parameters for estimating the rolling resistance of earthmoving plant on a compacted silty cohesive soil, 2A793
OSHER, S: Nonoscillatory high order accurate self-similar maximum principle satisfying shock capturing schemes I, 10A298
OSHIDA , Y: Development of photo-sensing bulge ductility tester, 2A1307
OSHIDA, Y: Some mechanistic observation on water-deteriorated dental composite resins, 2A1306
OSHIMA, R: High-speed observation of ultrahigh-speed submerged water jets, 10A1165
OSHIRO, N: Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, 9A413
OSHKHUNOV, MM: Convergence rate of iteration processes in physically nonlinear elasticity theory, 7T494
OSIANDER, R: Thermal NDE using microwave sources, 1A861
OSINOV, VA: Plane shear waves and loss of stability in a saturated granular body, 10A256
OSINSKI, J: Forms of damping matrix in the FE analysis of flexible mechanisms, 3A17
- Design of interferenced and clamped joints under general state of stress, 3A860
- Dynamical loads in a geared system with regard to shaft and bearing flexibility, 9A223
OSINSKI, Z: Stability of a rotor supported by short slide bearings, 9A226
OSIPIUK, W: Description of the stress relaxation process under plane stress conditions, 1A481
OSIPOV, AS: Methods of continuous control of irregularities and surface defects in chemical threads and yarns, 6T592
OSIYEMI, SO: Mechanical performance of carbon-fiber and glass-fiber-reinforced epoxy I-Beams - I: Mechanical behavior, 9A818
OSMAM, H: Development of photo-sensing bulge ductility tester, 2A1307
OSMAN, MH: Residual shear strength of fatigue cracked slender web panels, 5A604
OSMAN, MOM: Analysis of modified railway passenger truck designs to improve lateral stability-curving behavior compatibility, 2A70
- Design of ejectors for deep hole machining, 4A635
- Improvement of tool life in self-piloting drilling with external chip removal, 11A595
OSSWALD, TA: Boundary Elements XVII, 2N1
OSTACHOWICZ, W: Fatigue damage modeling of elastic-plastic materials, 3A710
- Damage indicators for diagnostic of fatigue cracks in structures by vibration measurements: A survey, 10A835
- Analysis of natural frequencies of delaminated composite beams based on FEM, 11A6
OSTAPENKO, A: Simplified method to determine the moment-curvature relationships of a damaged tubular segment, 9A975
OSTAPENKO, AV: Relationship between the critical heat flux density and the frequency of formation of vapor clusters under near-critical conditions, 1A1239
OSTASH, OP: Determination of stress concentrator opening displacement, 7A819
OSTENSEN, JO: Analysis of a grease-lubricated roller bearing under arctic conditions, 1T1147
- Prediction of film thickness in an elastohydrodynamic point contact lubricated with a viscosity index improved base oil, 4T1125
OSTERKAMP, TE: Considerations in determining thermal diffusivity from temperature time series using finite difference methods, 3A577
OSTIGUY, GL: Interaction between forced and combination resonances, 4A169
OSTLUND, S: Fracture modeling of brittle-matrix composites with spatially dependent crack bridging, 3A694
OSTMARK, H: Concentration and temperature measurements in a laser-induced high-explosive ignition zone - Part I: LIF spectroscopy measurements, 10A1381
OSTOJA-STARZEWSKI, M: Computational Methods in Micromechanics, AMD-Vol 212/MD-Vol 62 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N1
- Wavefront propagation in a class of random microstructures - II: Nonlinear elastic grains, 5A184
- Cauchy and characteristic boundary value problems of random rigid-perfectly plastic media, 6A391
OSTOJIC, M: Numerical approach to nonlinear control design, 12A366
OSTRACH, S: Thermocapillary convection experiment in microgravity, 3A1046
- Thermosolutal transport phenomena in large Lewis number electrochemical systems, 5A1204
- Effects of heating mode on steady axisymmetric thermocapillary flows in microgravity, 8A1107
OSTROVSKY, LA: Transitions and statistical characteristics of vibrations in a bimodular oscillator, 2A83
OSTROWSKA-MACIEJEWSKA, J: Elastic orthotropy, 9A472
- Two-dimensional Hooke's tensors: Isotropic decomposition, effective symmetry criteria, 10A523
OSTROWSKA-MACIEJEWSKA, T: Stress distribution in bending of strongly anisotropic beams, 1A596
OSTROWSKI, R: Modeling of bed shear stress under irregular waves, 9A1183
OSUKA, K: Linear robust control of nonlinear systems: Elevation control of hovercraft via multi-sectional control, 6A295
OSUMI, M: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737
OSWALD, DC: Spacecraft autonomous operations experiment performed during the Clementine lunar mission, 5A754
OSWALD, P: Preconditioners for nonconforming discretizations, 12A27
OSWIN, JR: Improved interferometric techniques for measuring flexiensional transducer vibration patterns underwater, 12A316
OTA, T: Inertia effects on film rupture in hydrodynamic lubrication, 5A1092
OTAIGBE, JU: Melt rheology of zinc alkali phosphate glasses, 8A868
OTANI, H: Design method of rip rap scour protection works for pier in fast tidal current (Japanese), 3A813
OTANI, J: Pull-out resistance of geogrids in reinforced soil, 12A664
OTANI, Y: Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), 2A691
- Removal of fine particles from smooth flat surfaces by consecutive pulse air jets, 4A1289
- Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), 7A878
OTEGUI, JL: Importance of toe irregularity for fatigue resistance of automatic welds, 6A617
- Application of a weight function based method to assess partially closed cracks, 12A771
OTHMAN, MO: Vibration effects on setting pregnant women: Subjects of various masses, 8A1447
OTMANI, SE: Homogenization for hydraulic drainage systems with periodically distributed 3D cavities, 9A1362
OTMIANOWSKI, T: Modification of tribological properties of surface layer by laser beam diffusion (Polish), 6A587
OTSUKA, J: Present and future technique of ultraprecision positioning (Japanese), 7T449
OTSUKA, K: Properties of microcracks formed on surface of concrete at steam curing period (Japanese), 2T601
OTSUKA, S: Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, 12A1023
OTSUKI, N: Study on the characterization of silica fume and the evaluation of properties of concrete containing silica fume (Japanese), 2T414
- Evaluation of the effect of surface coatings through the diffusion process of chloride ion in concrete (Japanese), 2A752
- Study on durability of surface coatings performed on an existing concrete structure (Japanese), 2A765
- Effect of size distribution of powders on yield value and viscosity of mortar (Japanese), 9A525
OTT, P: Computation of unsteady 3D transonic nozzle flows using k-e turbulence closure, 12A1127
OTTAVY, N: Stress intensity factors in 2D crack problems by using the superimposed meshes method, 10A777
OTTER, M: Modeling of multibody systems with the object-oriented modeling language Dymola, 7T91
OTTEWILL, GA: Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806
OTTINGER, HC: Numerical study of the flow of a low-density-polyethylene melt in a planar contraction and comparison to experiments, 6A907
- Velocity field in nondraining polymer chains, 10A1042
OTTINO, JM: Control of transport in a chaotic lattice, 11A85
OTTO, A: Three-dimensional plasma-neutral gas-fluid code, 11A929
OTTO, JS: Multigrid convergence for discretizations of singular perturbation problems with grid-aligned flow, 7A50
OTTO, JW: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082
OTTO, SR: Spatial evolution of centrifugal instabilities within curved incompressible mixing layers, 11A988
OTUGEN, MV: Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf, 2N46
- Laser Anemometry - 1995 ASME/JSME Fluids Eng Conf, 2N44
- Turbulent incompressible jet in a curved coflow, 12A1136
OTUKI, N: Quantative estimation of steel corrosion in mortar due to carbination (Japanese), 9A923
OTUONYE, F: Effects of torque on the transverse vibration frequency of a point-anchored bolt, 7A186
OU, CHANG-YU: Three-dimensional FE analysis of deep excavations, 10A683
OU, JS: Optimal design of controlled structures, 8A720
OU, ZONGYING: Principle and applications of undoing in solid modeling (Chinese), 8A828
- Analysis and simulation expert system of planar link mechanism based on variational geometry (Chinese), 8A340
- Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), 8A827
OUAFTOU, M: Parameter of nonlinearity B/A in saccharide solutions (French), 11A240
OUAZAR, D: Global interpolation function based DRBEM applied to Darcy's flow in hetcrogeneous media, 8A1324

OUAZZANI, J: Spectral multidomain technique for the computation of the Czochralski melt configuration, 6A1103
- Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, 12A1216
OUDSHOORN, A: Considerations on modal reanalysis of nonconservative dynamics systems by the generalized receptance method, 2A776
- Implementation of a modal reanalysis method in a FE analysis context, 4A33
OUEINI, SS: Experimental implementation of the internal resonance control strategy, 10A883
OUELLET, Y: Analysis of time varying errors in quadratic FE approximation of hyperbolic problems, 4A25
OUGIYA, Y: Profile calculation method for form grinding wheels: Theoretical analysis of error transmission and its application, 7A753
OUILLON, S: Modeling non-cohesive suspended sediment transport in 2D vertical free surface flows, 12T1025
OULD EL MOCTAR, A: Numerical and experimental investigation of direct electric conduction in a channel flow, 6A1095
OULD-ROUIS, M: Statistics of temperature increments in fully developed turbulence - Part II: Experiments, 1A1089
OUSAKA, A: Effect of surface geometry on steam absorption into a falling film of aqueous solution of LiBr, 9A1258
OUT, L: Influence of the parameters of a human triceps surae muscle model on the isometric torque-angle relationship, 9A1438
OUTCALT, SI: Detection of heat-mass transfer regime transitions in the active layer using fractal geometric parameters, 3A578
OUYANG, CHENGSHENG: Fracture Mechanics of Concrete and Rock: Applications of Fractures Mechanics to Concrete, Rock, and Other Quasi Brittle Materials, 1R17
- Relationship between fracture parameters from two parameter fracture model and from size effect model, 9A793
OUYANG, HJ: Wave propagation along longitudinally periodically supported or stiffened prismatic plate assemblies, 2A154
OUYANG, HONG: Development of pressure-based composite multigrid methods for complex fluid flows, 11A902
OUYANG, TIANHONG: Finite element simulations involving simultaneous multiple interface fronts in phase change problems, 8A1168
OVAKIMYAN, N: Chaotic vibrations of a nonlinear viscoelastic beam, 9A182
OVARLEZ, J: Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, 12T1417
OVASKAINEN, O: Shell deformation states and the FEM: A benchmark study of cylindrical shells, 5A520
OVECHKIN, DA: Evaporation heat and mass transfer in a system of monodisperse macroparticles, 10A1280
OVERHOLT, JL: Singularly perturbed bond graph models for simulation of multibody systems, 5A314
OVERNEY, RM: Friction and elasticity on a molecular scale, 4T827
OVERTON, ML: Stability theory for dissipatively perturbed Hamiltonian systems, 2A71
OVODKOV, AA: Effect of flow swirling and porous coating on critical heat flux in a horizontal tube with nonuniform heating, 1A1236
OWCZAREK, S: Vector model of solar radiation density incident on tilted surfaces: Identification for the area of Warsaw, 9T1425
OWEN, DR: Integral-gradient formulae for structured deformations, 1T448
OWEN, DRJ: Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, 1A160
- Finite elasticity in spatial description: Linearization aspects with 3D membrane applications, 3A427
- Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, 4A45
- Block conjugate gradient method applied to linear systems with multiple right-hand sides, 4A80
- New criterion for determination of initial loading parameter in arc-length methods, 4A587
- Consistent linearization for the exact stress update of Prandtl-Reuss non-hardening elastoplastic models, 9A518
- Iterative solution of coupled FE-BE discretizations for plate-foundation interaction problems, 11A525
- Conjugate gradient methods for solving the smallest eigenpair of large symmetric eigenvalue problems, 12A73
OWEN, I: Theoretical analysis of the thermal resistance of non-uniform fouling on cross-flow heat exchanger tubes, 3A1150
OWEN, JM: Turbulent flow between two disks contrarotating at different speeds, 11A896
OWENS, AD: Overview of recycling issues for composite materials, 8A1407
OWENS, DH: Iterative Learning Control: An overview of recent algorithms, 1A375
- Limit systems, limit gains and non-generic behaviors arising in adaptive stabilizing control, 3A311
- Stability of discrete non-unit memory linear repetitive processes: A 2D systems interpretation, 8T266
- Adaptive stabilization using a variable sampling rate, 8T262
OWENS, RG: Steady viscoelastic flow past a sphere using spectral elements, 10A551
OWENS, TJ: Lateral variation in crustal structure of the Northern Tibetan plateau inferred from teleseismic receiver functions, 6A1229
- Signal detection using multi-channel seismic data, 11A1397
- Propagation characteristics of Lg across the Tibetan Plateau, 11A1347
OWSIK, J: Diffraction splitter of laser radiation with high splitting coefficient, 3A1144
- Apparatus for measuring the energy of pulse radiation of a laser, 9A860
OXLEY, PLB: Prediction of chip flow direction and cutting forces in oblique machining with nose radius tools, 2A546
- Explaining the mechanics of metallic sliding friction and wear in terms of slipline field models of asperity deformation, 5A767
OYADIJI, SO: Characterization of the dynamic properties of viscoelastic elements by the direct stiffness and master curve methodologies - Part I: Design of load frame and fixtures, 3A171
OYAMA, K-I: VLF wave experiments in space using a modulated electron beam, 1A277
OYINLOLA, AK: Frictional characteristics of fatty-based oils in wire drawing, 12A925
OZ, H: Direct optimal control of nonlinear systems via Hamilton's law of varying action, 5A319
OZAKA, Y: Evaluation of lifetime risk in reinforced concrete structure (Japanese), 9A915
OZAKI, D: Experimental study of bridge seismic sliding isolation systems, 8A145
OZAKI, K: Optimization of diamond grain size of polycrystalline diamond for cutting Al-16%Si alloy (Japanese), 2A542
- Development of a wireless communication system for a distributed autonomous robotic system (Japanese), 2A312
OZAKI, M: Stability of liquid CO_2 in seawater at high pressures, 3A957
OZAKI, T: Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970
OZARD, JM: Prewhitening for improved detection by matched-field processing in ice-ridging correlated noise, 3A303
OZAWA, K: Development of self-compacting high performance concrete (Japanese), 4T806
OZAWA, T: Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, 5T1293
OZBEK, MA: Space-time mixed FEa for rods, 11T16
OZBELGE, TA: Heat transfer enhancement in water-feldspar upflows through vertical annuli, 3A1096
OZBOLT, J: Numerical smeared fracture analysis: Nonlocal microcrack interaction approach, 7A864
OZER, A: Slightly damped uniform n-mass oscillator, 9A194
OZEROV, VN: Disturbance growth control in a boundary layer, 10A1134
OZGUNER, U: Closed-loop control of systems over a communications network with queues, 2A276
- Control of flexible manipulators via singular perturbations and distributed vibration damping, 7A441
- Co-states for sliding mode design in linear systems, 11T289
OZGUR, K: Separation phenomena in force closed cam mechanisms, 9A995
OZGUR, M: Analysis of closed cell metal composites, 9A557
OZGUVEN, HN: Modal superposition method for nonlinear structures, 7A122
OZIMEK, JL: Integrated digital avionics to improve aircraft environmental control systems, 7T1173
OZISIK, MN: Inverse analysis to estimate linearly temperature dependent thermal conductivity components and heat capacity of an orthotropic medium, 1A1255
- Transient thermal constriction resistance in a finite heat flux tube, 3T1114
- Inverse heat conduction problem for the estimation of the temperature dependence of thermal conductivity, 3A1123
- Inverse analysis of transient turbulent forced convection inside parallel-plate ducts, 11T1112
OZKAN, MY: Evaluation of Surgu dam response during May 5, 1986 earthquake, 5A1319
OZOE, H: Effect of the temperature dependence of fluid properties on the migration of an interface in double diffusive natural convection, 2A1164
- Effect of aspect ratio on mass transfer from a rotating cup, 11T1257
OZONO, S: Measurement of 3D objects using gray code projection (Japanese), 2A705
- Data processing and calibration of coordinate measuring machine, 3A740
- On-line process control based on geometrical parameters from measured data in machining process (Japanese), 7A482
OZSOY, C: Mimo and siso self-tuning hybrid position-force control of robotic manipulators, 5A373
OZTURK, M: Axisymmetric crack problem in bonded materials with a graded interfacial region, 3A691
- Periodic cracking of functionally graded coatings, 4A736
OZYORUK, Y: New efficient algorithm for computational aeroacoustics on parallel processors, 9T385
- Computation of sound radiating from engine inlets, 10A375

P

PABIOT, J: Fracture mechanics applied to glass fiber-epoxy matrix interface characterization, 6A667
PACHTER, M: Reconfigurable tracking control with saturation, 3T357
- Full envelope flight control system design using qualitative feedback theory, 6A311
- Literal Nyquist stability criterion for MIMO control systems, 8A264
PACKARD, A: Optimally scaled H_{∞} full information control synthesis with real uncertainty, 12T355
PACKER, JA: Effective weld length for HSS T, Y, and X connections, 2A833
- New guidelines for fatigue design of HSS connections, 7A926
PACOSTE, C: Element behavior in post-critical plane frame analysis, 1A650
PACZELT, I: New developments in contact pressure optimization, 1A467
PACZKOWSKA, T: Influence of support conditions on internal forces in single layer network shell (Polish), 6A488
PACZKOWSKI, W: Aerodynamic testing of cylindrical shell in model wind tunnel (Polish), 10A241
PACZKOWSKI, WM: Multicriterion optimization of space trusses with stiffness variation, 6A718
PADALKIN, BV: Short-term creep of a zirconium alloy in the case of a complex stressed-strained state, 9T773
PADEN, B: Stable inversion of nonlinear non-minimum phase systems, 11A303
PADFIELD, G: Helicopter Flight Dynamics: The Theory and Application of Flying Qualities and Simulation Modeling, 11N30
PADGETT, WJ: Weibull analysis of the strength of carbon fibers using linear and power law models for the length effect, 2A605
PADIVAL, NA: Use of iron salts to control dissolved sulfide in trunk sewers, 3T1397
PADMANABAN, K: Ultimate strength analysis of stub girders, 1A898
PADMANABHAN, B: Setdown of a catenary-moored gravity platform, 9A957
PADMANABHAN, C: Dynamics of a piecewise nonlinear system subject to dual harmonic excitation using parametric continuation, 1A180
- Linear dynamic analysis of multimesh transmissions containing external, rigid gears, 1A942
- Dynamic analysis of a brushless dc motor using a modified harmonic balance method, 5A338
- Analysis of periodically forced nonlinear Hill's oscillator with application to a geared system, 6A151
PADMANABHAN, KA: Effect of prior cold work on the room-temperature low-cycle fatigue behavior of AISI 304LN stainless steel, 9A753
- Mechanistic model for boundary sliding controlled optimal superplastic flow - II: Experimental verification, 10A512
- Mechanistic model for boundary sliding controlled optimal superplastic flow - I: Theory, 10A511
PADMANABHAN, M: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Inst Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
- Transient extensional viscosity from a rotational shear rheometer using fiber-windup technique, 12A1016
PADMAPRABHA: Effect of overstressing on fatigue behavior of austempered ductile iron, 1A752
PADMAVATHI, BS: Two dimensional Stokes flows with slip-stick boundary contitions, 2T877
- Stokes flow past a composite porous spherical shell with a solid core, 10A1425
PADOVAN, J: Thermoelastic load trasfer between twisted cord and matrix in composites, 3A1169
- Hierarchically partitioned solution strategy for CFD applications - Part I: Theory, 4A976
- Hierarchically partitioned solution strategy for CFD applications - Part II: Numerical applications, 4A977
- Cyclic stress response, strain resistance, and fracture behavior of modified 1070 steel, 9A749
PADOVANI, C: Numerical solution of equilibrium problems for elastic solids with bounded tensile strength, 4A441
- Masonry-like solids with bounded compressive strength, 9A526
PADTURE, NP: Damage-resistant alumina-based layer composites, 6A659
PAEK, SEUNG-KIL: Flutter analysis for control surface of launch vehicle with dynamic stiffness, 12A265
PAES, MTP: Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, 11A834
PAEZ, TL: Random Vibrations: Theory and Practice, 2R8
PAGANO, NJ: Free edge effect on residual stresses and debond of a composite fiber-matrix interface, 1A540
- Asymptotic stresses around a crack tip at the interface between planar or cylindrical bodies, 1A807
- Effective thermoelastic moduli of a unidirectional fiber composite containing interfacial arc microcracks, 9A1286
PAGANO, S: Dynamic behavior of tilting-pad journal bearings, 4A853
PAGE JR, GW: Method to predict sound levels from hydrodynamic sources associated with flow through throttling valves, 4A306
PAGE, CL: Influence of some parameters relevant to the Arabain Gulf environment on corrosion of reinforcing steel in concrete, 2A594
- Effect of temperature and salt contamination on carbonation of cements, 11A469
PAGE, NW: Microprojectile velocities in a gas driven launcher, 3A1404
PAGE, RH: Self-oscillation enhancement of impingement jet heat transfer, 10T1318
- Combustion measurements from an impinging radial jet reattachment flame, 12A1324
PAGEAU, SS: Finite element approach to 3D singular stress states in anisotropic multi-material wedges and junctions, 2A377
- Singular antiplane stress fields for bonded and disbonded three-material junctions, 4A737
PAGLIONE, P: Nonequilibrium reactive flows through convergent-divergent nozzle by the method of characteristics (Spanish), 3A949
PAHK, HJ: Precision alignment technique for parts having thin features using measurement feedback iterative method in CAD-CAI environment, 4A417
- Hybrid-type active vibration isolation system using neural networks, 11A155
PAHUD, P: Thermo-elasto-hydrodynamic (TEHD) lubrication, 8A1038
PAI, PERNGJIN F: Nonlinear displacement-based FE analyses of composite shells: A new total Lagrangian formulation, 1A631
PAI, PF: Large-deformation analysis of flexible beams, 7A597
PAI, SS: Probabilistic response of truss-type space structure with joint and member imperfections, 5A751
PAI, VM: Methanol and hydrogen oxidation kinetics in water at supercritical states, 12A1308
PAIDOUSSIS, MP: Three dimensional viscous flows between concentric cylinders executing axially variable oscillations: A hybrid spectral-finite difference solution, 5A940
- Analysis of 2D and 3D unsteady annular flows with oscillating boundaries, based on a time-dependent coordinate transformation, 8T889
- Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, 9A1269
- Dynamics of an articulated cylinder in annular flow via nonlinear and partially-linearized versions of an analytical model, 11A222
PAIK, ET: Generalized FEM for solving the Helmholtz equation in 2D with minimal pollution, 5A289
PAIK, JG: Effective four node degenerated shell element for geometrically nonlinear analysis, 5A32
PAIK, S: Solution domain decomposition with finite difference methods for partial differential equations, 1A49
PAIK, SAUNGHO: Unsteady mixed convection about a rotating circular cylinder with small fluctuations in the free-stream velocity, 4A1163
PAIMUSHIN, VN: Refined dynamic equations for multilayer shells with transversely soft fillers, 10A187
PAIS, MR: Free expansion study of liquid nitrogen, 1A1061
- Effect of spray characteristics on spray cooling with liquid nitrogen, 3A1084
- Analytical method to determine the liquid-film thickness produced by gas-atomized sprays, 8T1135
PAJAK, D: Rayleigh-Benard convection in a tube bank: Experimental verification of a simple model (German), 3T1052
PAJARES, A: Residual stresses around Vickers indents, 2A403
PAJARI, M: Shear capacity of notched prestressed hollow core slabs with circular voids, 3A790
PAJEWSKI, W: Generation and detection of acoustic waves in microwave cavities, 1A361
- Methods of measurements of the quality factor of piezoelectric resonators with high electrical and mechanical losses, 9A650
- Radiation of piezoelectric rings into the air through cylindrical waveguides, 9A260
PAK, CHAN-GI: Digital adaptive flutter suppression and simulation using approximate transonic aerodynamics, 3A221

PAK, EE-TONG: Analytical solutions to a 1D finite-domain model for stratified thermal storage tanks, 11A1238

PAK, RYS: Elastodynamic Green's functions for a smoothly heterogeneous half-space, 6A389

- Torsional contact problem for an indented half-space, 9A483
- Scattering of vertically-incident P-waves by an embedded pile, 9A271

PAK, VE: Extension of the nonlinear problem of optimal control with nonstationary phase restrictions, 4T350

PAKADE, SV: Ultrasonic velocity and elastic constant measurements in some borate glasses, 7A587

PAKDEMIRLI, M: Comparison of direct-perturbation methods with discretization-perturbation methods for nonlinear vibrations, 4T118

- Symmetry groups of boundary layer equations of a class of non-Newtonian fluids, 11A853

PAL, CHINMOY: Dynamic system identification by neural network: A new fast learning method based on error back propagation, 6A270

PAL, K: Static and dynamic characteristics of spot welded sheet metal beams, 5A125

PALA, Y: Pure bending of elliptical ring sector with cross section of multi-connected region composed of confocal ellipses, 7A602

PALAKAL, MJ: Neural network approach to fatigue-crack-growth predictions under aircraft spectrum loadings, 1A837

PALANIAPPAN, D: Regular and chaotic flows in paraboloidal basins and eddies, 9A1058

PALAZOGLU, A: Test for stabilizability by constant output-feedback, 3T320

- Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems, 11A291

PALAZOTTO, AN: Nonlinear displacement-based FE analyses of composite shells: A new total Lagrangian formulation, 1A631

- Large-deformation analysis of flexible beams, 7A597
- Nonlinear dynamics of unidirectional, fiber-reinforced tori, 8A776
- Viscoelastic material response with a fractional-derivative constitutive model, 8A402
- Collapse of composite cylindrical panels with various thickness using FE analysis, 12A624
- Numerical application of fractional derivative model constitutive relations for viscoelastic materials, 12A510

PALAZZO, B: Reduction factors for base isolated structures, 12A1409

PALAZZOLA, A: Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, 5A697

PALAZZOLO, AB: Forced response analysis and application of impact dampers to rotordynamic vibration suppression in a cryogenic environment, 5A164

- Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, 5A157
- Transient analysis of plain and tilt pad journal bearings including fluid film temperature effects, 10A1219

PALCHENOK, GI: Heat transfer to developed surfaces above a fluidized bed, 10A1419

PALCHEVSKY, AS: Prediction of critical value of the axial force of the imperfect cylindrical shell, 9A587

PALDOR, N: Stability of a potential vorticity front: From quasi-geostrophy to shallow water, 11A982

PALENICHKA, R: Fast algorithm for edge structure detection in monochrome and color images, 6A282

PALERO, V: Fast quantitative processing of particle image velocimetry photographs by a whole-field filtering technique, 4A1130

PALES, D: First-order third-moment reliability method, 7A923

PALIWAL, DN: Design of loose type orthotropic flange, 1A607

- Design of orthotropic flat heads, 1A608
- Vibrations of an orthotropic shallow spherical shell on a Pasternak foundation, 5A516
- New approach to the analysis of a tubesheet for a U-tube heat exchanger, 9A610
- Further investigations in tubesheet design for a U-tube heat exchanger, 10A612

PALIZZOLO, L: Optimality conditions for shake-down design of trusses, 5A694

PALKOVICS, L: Design of an active unilateral brake control system for five-axle tractor-semitrailer based on sensitivity analysis, 4A371

PALLABAZZER, R: Evaluation of wind-generator potentiality, 1A1431

PALLEWATTA, TM: Effectiveness of laterally arranged reinforcement on the confinement of core concrete, 2A751

- Verification of 3D constitution model of concrete in line with capacity and ductility of laterally reinforced concrete columns, 2A767

PALLIX, JB: Measurement of catalytic recombination coefficients on quartz using laser-induced fluorescence, 10A1211

PALMA, ES: Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), 2A391

- Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), 3A459

PALMA, JMLM: Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 2: Higher order moments and flow visualization, 5A1278

- Experimental investigation of the flow inside a water model of a gas turbine combustor - Part 1: Mean and turbulent flowfield, 5A1277

PALMBERG, J-O: Application and implementation of LQ design method for the velocity control of hydrostatic transmissions, 6A324

PALMER , SC: Strain concentrations in pressurized dented pipes, 9A972

PALMER, BJ: Parametric study of radiative heat transfer in arrays of fixed discrete surfaces, 8T1175

- Monte Carlo simulation of radiative heat transfer in arrays of fixed discrete surfaces using cell-to-cell photon transport, 11A1214
- Comparison of experiment with Monte Carlo simulations on a reflective gap using a detailed surface properties model, 11A1207

PALMER, CA: Ash deposition in a wood-fired gas turbine, 5A1029

PALMER, DR: Rayleigh scattering from nonspherical particles, 9A366

PALMER, G: Three-dimensional computational analysis of complex launch vehicle configurations, 7A991

PALMER, GB: Variation of fracture energies G_{IC}, γ_{wof}, J_{IC} with specimen size and pre-fired temperature in a low cement refractory, 2A639

PALMER, GM: Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316

PALMER, JL: Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049

PALMER, SB: Optimization of a miniature laser-EMAT system for pulsed ultrasonics, 10A862

PALMER, SC: Burst pressures of pipes containing dents and gouges, 9A971

PALMER, SJP: Automated fine grid technique for measurement of large-strain deformation maps, 3A727

PALMERIO, B: Coupling mesh and flow in viscous fluid calculations on unstructured triangular FEs, 12A13

PALMESE, GR: Relationship between interphase composition, material properties, and residual thermal stresses in composite materials, 3A1184

PALMOV, VA: Thermodynamic derivation of the heat conduction equation and the dynamic boundary value problem for thermoelastic materials and fluids, 8A1158

PALO, PA: Identification of physical parameters with memory in nonlinear systems, 5A305

PALOSZ, B: Investigations of the combustion products of aluminum in explosion processes, 9A332

PALUCH, B: Analysis of geometric imperfections affecting the fibers in unidirectional composites, 10A572

PAMADAI, BN: Simple guidance method for single stage to low earth orbit, 4T368

PAMECHA, A: Evaluating efficiency of self-reconfiguration in a class of modular robots, 10A491

PAMIN, J: Gradient plasticity approach to FE predictions of soil instability, 1A704

- Numerical simulation of localization phenomenon using gradient plasticity and FEa, 1A522
- Gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials, 6A651
- Gradient plasticity in numerical simulation of concrete cracking, 10A828

PAN, AD: Stability analysis of semirigid steel scaffolding, 4A871

- High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, 7A925
- High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, 7A924
- Analysis of concrete placement load effects using influence surfaces, 9A907

PAN, ANSHENG: Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), 8A817

PAN, C: Control of pressure oscillation in bilinear-displacement constant-pressure element, 5A23

- Overview and applications of the reproducing Kernel Particle methods, 9A22

PAN, CHIN: Predictions of void friction in convective subcooled boiling channels using a 1D two-fluid model, 3T1082

- Chaotic oscillations in a low pressure two-phase natural circulation loop under low power and high inlet subcooling conditions, 11A1421

PAN, CHUNG-HUNG: Analysis of the effects of torque, engine geometry, and speed on choosing an engine inertia model to minimize prediction errors, 9A434

PAN, CP: Natural convection in horizontal-layered porous annuli, 3T1074

PAN, DARTZI: Computation of vortex lock-in in the laminar wake of a circular cylinder using unsteady monopole sources, 1A1066

- Unstructured Euler flutter analysis of 2D wing-tail configuration, 2T197

PAN, E: Stress concentration at irregular surfaces of anisotropic half-spaces, 5A400

- Role of topography and anisotropy when selecting unlined pressure-tunnel alignment, 6A538
- Edge function analysis of stress intensity factors in cracked anisotropic plates, 6A672
- Three-dimensional BE formulation of anisotropic elasticity with gravity, 7A58

PAN, G: Dynamic response of finite sized elastic runways subjected to moving loads: A coupled BEM-FEM approach, 2A123

PAN, GG: Intelligent control system for multiple dof vibration isolation, 7A136

PAN, H: Impact characteristics of hailstones simulating ingestion by turbofan aeroengines, 11A184

PAN, HL: Baffle effect on sloshing-modulated torques responsed to orbital accelerations in microgravity, 1A248

- Combined gravity gradient and jitter accelerations acting on liquid-vapor interface oscillations in reduced gravity, 2A927
- Fluid force activated spacecraft dynamics driven by gravity gradient and jitter accelerations, 3T234
- Spin-up and wrapping of cryogenic helium bubble around dewar well from rest in microgravity, 4T965
- Sloshing-induced moment driven by gravity gradient associated with spacecraft slew motion, 5A245
- Actuation of sloshing modulated force and moment on liquid container driven by jitter accelerations associated with slew motion in microgravity, 6A206
- Modeling of sloshing modulated angular momentum fluctuations actuated by gravity gradient associated with spacecraft slew motion, 10A303

PAN, J: Macroscopic constitutive law for porous solids with pressure-sensitive matrices and its implications to plastic flow localization, 2A5

- Anisotropic stress resultant constitutive law for sheet metal forming, 7A729
- Dynamic response and power flow in 2D coupled beam structures under in-plane loading, 10A923

PAN, JH: High accuracy for mixes FEMs in Raviart-Thomas element, 10A31

PAN, JIANHUA: Manipulator control design using a nonparametric method, 2A314

PAN, L: Unstructured multigrid method for shells, 9A611

PAN, MING-CHING: Evaluation of the preform design of a stepped forging part by coupled thermoviscoplastic FE analysis and viscoplasticity, 12A679

PAN, O: Swirling flows in circular to rectangular transition ducts, 10A1148

PAN, R: Non-stationary responses of a nonlinearly coupled pitch-roll ship model under modulated excitation, 11A93

PAN, RUIGUI: Responses on a nonlinearly coupled pitch roll ship model under harmonic excitation, 9A1211

PAN, TSO-CHIEN: When the doorbell rings: A case of building response to a long distance earthquake, 3A1330

PAN, WEN CHUEH: Study of orthogonal cutting with tool flank wear and sticking behavior on the chip-tool interface, 3A625

PAN, WF: Observations on yield surfaces for 304 stainless steel at large prestrain, 5A451

PAN, X: Application of an in-line, stereoscopic, PIV system to 3-component velocity measurements, 1A1150

- Investigation of the performance of multilayer, neural networks applied to the analysis of PIV images, 1T1151

PAN, XC: Flamelet structure of radiating CH_4: Air Flames, 1A1329

PAN, XIAO-BO "DAVID": Fixed angle softened truss model for reinforced concrete, 9A916

PAN, XIAO-DONG: Influence of axial stress and dilatancy on rock tunnel stability, 7A717

PAN, YADUNG: Fuzzy adaptive recurrent counter-propagation neural networks: A tool for efficient implementation of qualitative models of dynamic processes, 5A315

PAN, Z: Robustness of minimax controllers to nonlinear perturbations, 6T268

PANAGIOTOPOULOS, DG: Long-term earthquake prediction in Central America and Caribbean Sea based on the time- and magnitude-predictable model, 2A1237

PANAGIOTOPOULOS, PD: Hemivariational Inequalities: Applications in Mechanics Engineering, 6R1

- Debonding effect in saddles: Comparison of the performance of Flugge's and Sanders' shell theories, 1A612
- Generalized hardening plasticity approximated via anisotropic elasticity: A neural network approach, 1A519
- Comparison of two methods for the solution of a class of nonconvex energy problems using convex minimization algorithms, 2A369
- Plasticity including the Bauschinger effect, studied by a neural network approach, 5A434
- Softening behavior of continuous thin-walled steel beams: Two numerical methods, 6A467
- Hardening plasticity approximated via anisotropic elasticity: The Fokker-Planck equation in a neural network environment, 6A400
- Stability of elastic bodies with non-monotone multi-valued boundary conditions of the quasi-differential type, 6A489
- Behavior of circular cylindrical shells due to local debonding, 8A490

PANAGIOTOU, T: Measurements of particle flame temperatures using three-color optical pyrometry, 8A1283

PANAHI, KK: Advances in Vibration Issues, Active and Passive Mitigation, Damping and Seismic Isolation - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N8

PANARAS, AG: Review of the physics of swept-shock/boundary layer interactions, 6A952

PANARIELLO, GF: Active tendon control systems for structures subjected to multiple support excitation, 2A278

PANAS, AJ: Analysis of selected components of the interferometric thermal expansion measurement error by means of numerical simulation, 6A1174

PANASENKO, GP: Averaging of the system of equations of motion of a viscous fluid in a porous medium, 2A1225

PANASOV, SN: Evaporation heat and mass transfer in a system of monodisperse macroparticles, 10A1280

PANASYUK, VV: Determination of stress concentrator opening displacement, 7A819

PANAYOTOUNAKOS, DE: Classes of solutions in the problem of stability analysis in bars with varying cross-section and axial distributed loading, 1A639

- General membrane equilibrium equation as an application of a proposed method for decoupling higher-order linear partial differential systems, 4A555

PANDA, J: Shock detection technique based on light scattering by shock, 4T1133

- Wide angle light scattering in shock-laser interaction, 4T284

PANDE, GN: Numerical Models in Geomechanics - Proc of 5th Int Symp, NUMOG V, Davos, Switzerland, Sept 1995, 12N28

- Mechanical response of saturated cemented materials - Part I: Theoretical considerations, 1A690
- Mechanical response of saturated cemented materials - Part II: Experimental investigation and numerical simulations, 1A691
- Constitutive relations for partially saturated soils containing gas inclusions, 6A523
- Stochastic model for the permeability characteristics of saturated cemented porous media undergoing freezing, 9A1360

PANDEY, MC: Air-environment-creep interaction in a nickel base superalloy, 4A686

PANDEY, PC: Exponential ductile continuum damage model for metals, 6A626

PANDEY, R: Visualization of representative volume elements for 3D four-step braided composites, 9A537

PANDEY, RK: Failure analysis of the impellers of a feed pump, 9A765

- Thermal effects on film thickness and traction in rolling-sliding EHL line contacts: An accurate inlet zone analysis, 10A1228

PANDHEERADI, M: Iterative and direct solvers for interface problems with Lagrange multipliers, 4A34

PANDIT, R: Conjectures about phase turbulence in the complex Ginzburg-Landau equation, 7T104

PANDIYAN, R: Liapunov-Floquet transformation: Computation and applications to periodic systems, 10A88

PANEK, A: Simulation of solar radiation heat flux data for energy calculation, 7A1397

PANEVIN, VI: Dispersed film boiling heat transfer, 1A1240

PANFILOV, NA: Evaluation of potentialities of composites application in ship shaftlines (Russia), 8A467

PANFILOV, VS: Unstable steam-water convection as possible trigger to earthquakes, 3A1316

PANG , CHENG: Thermal regulation of head region and its selective cooling, 7A1419

PANG, HW: Comparison between cube strengths and *in situ* concrete strength development, 11A748

PANG, SS: Stress-strain and failure analyses of composite pipe under torsion, 5A484

PANG, SU-SENG: Stress-strain analysis of single-lap composite joints under tension, 10A596

PANG, SW: Released Si microstructures fabricated by deep etching and shallow diffusion, 11T360

PANG, XIAO-BO: Behavior of reinforced concrete membrane elements in shear, 5A705

PANIN, VE: Design of New Materials and Strengthening Technologies, 8N14

PANKAJ: Exact prescribed displacement field solutions in Mohr Coulomb elastoplasticity, 9A519

PANKHAWALA, VA: Classification of crack-tip isochromatics in orthotropic composites, 5A637

PANKHAWALLA, A: Plotting of fringe contours from FE results, 3A33

PANKIEWICZ, E: Limit analysis of discs by a rigid FEM, 4A551

PANKOV, AA: Quaternion laws of kinematic attitude control of a rigid body by the angular velocity, 10A72
PANKOV, BV: Three-phase fluidized bed for quenching steel parts, 10A1421
PANNESE, L: Computational acoustics: Noise reduction via diffraction by barriers with different geometries, 12A303
PANNETON, R: Vibration and sound radiation of a cylindrical shell under a circumferentially moving load, 3A252
PANONTIN, TL: Proof-test-based life prediction of high-toughness pressure vessels, 7A993
PANOSKALTSIS, VP: Micro and macromechanical aspects of the behavior of concrete materials with special emphasis on energy dissipation and on cyclic creep, 9A772
PANT, RK: Economic parameters in the conceptual design optimization of an air-taxi aircraft, 1A870
PANTALONI, J: Experimental study of convective boiling in a porous medium: Temperature field analysis, 8T1151
PANTARATORN, N: Finite element analysis on shear resisting mechanism of concrete beams with shear reinforcement, 2A9
PANTAZOPOULOU, SJ: Role of expansion of mechanical behavior of concrete, 6A419
PANTELELIS, NG: Parallel block adaptive multigrid method for the implicit solution of the Euler equations, 8A885
PANTELIDES, C: Comparison of linear and nonlinear seismic drift histories for midrise steel frames, 12A1398
PANTELIDES, CP: Stability of elastic bars on uncertain foundations using a convex model, 7A656
- Buckling and postbuckling of stiffenod elements with uncertainty, 11A536
PANTON, RL: Incompressible Flow, Second Edition, 8R24
PANTON, SM: Effects of geometric variables in roll forming a channel section, 10A704
PANTUSO, D: Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, 1A518
PANUSZKA, RJ: Influence of stiffness and boundary conditions of thin rectangular plates on radiated acoustic power, 6A232
PAO, CV: Block monotone iterative methods for numerical solutions of nonlinear elliptic equations, 5A67
- Quasisolutions and global attractor of reaction-diffusion systems, 10T1348
PAO, LY: Minimum-time control characteristics of flexible structures, 6A328
- Measurement reconstruction approach for distributed multisensor fusion, 12T428
PAO, YI-HSIN: Evaluation of design parameters for leadless chip resistors solder joints, 3A864
- Plastic deformation kinetics of 95.5Sn4Cu0.5Ag solder joints, 3A866
PAOLA, C: Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation (French), 8T401
- Numerical simulation of aggradation and downstream fining (French), 12T1027
PAOLACCI, F: Design of yielding or friction-based dissipative bracings for seismic protection of buildings, 1A1392
PAOLETTI, A: Experimental study on grinding of silicon carbide reinforced aluminum alloys, 10A715
PAOLINI, M: Numerical simulations of measurements of capillary contact angles, 9A1081
PAOLO BISEGNA, P: Mohr's Arbelos, 2T356
PAOLUCCI, S: Stability of unstably stratified shear flow in a channel under non-Boussinesq conditions, 3A963
- Stability of mixed-convection flow in a tall vertical channel under non-Boussinesq conditions, 4A1160
PAPADIMITRIOU, C: Stochastic response cumulants of MDOF linear systems, 3A794
- Approximate analysis of response variability of uncertain linear systems, 6A115
- Stochastic cumulant analysis of MDOF systems with polynomial-type nonlinearities, 9A932
PAPADOPOULOS, CA: Crack identification in beams by coupled response measurements, 3A717
- Lyapunov's stability of nonlinear misaligned journal bearings, 5A829
PAPADOPOULOS, E: Design methodology for zero reaction robots, 3A400
PAPADOPOULOS, GA: Study of orthotropic materials: The interphase model and the crack initiation, 5A470
PAPADOPOULOS, IV: Exploring the high-cycle fatigue behavior of metals from the mesoscopic scale, 9A859
PAPADOPOULOS, K: Predicting single sided natural ventilation rates in buildings, 4A1226
PAPADOPOULOS, KH: Study of the turbulent characteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, 1A1434
PAPADRAKAKIS, M: Three-dimensional simulation of structural pounding during earthquakes, 10A1435
- Domain decomposition PCG methods for serial and parallel processing, 12A849
PAPAGEORGAS, PG: Study of the turbulent characteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, 1A1434
PAPAGEORGIOU, AS: Locally generated surface waves in Santa Clara Valley: Analysis of observations and numerical simulation, 6A1284
PAPAGEORGIOU, DT: Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995, 12N39
- Analytical description of the breakup of liquid jets, 4A1065
PAPAGEORGIOU, G: Family of fifth-order Runge-Kutta pairs, 12A42
- Continuous Runge-Kutta(-Nystrom) methods with reduced phase-errors, 12A39
- General family of explicit Runge-Kutta pairs of orders 6(5), 12A43
PAPAILIOU, KD: Design method for stator cascades with stream surface of revolution using natural coordinates, 8A958
- Arbitrary blade section design based on viscous considerations: Blade optimization, 12A1180
- Arbitrary blade section design based on viscous considerations: Background information, 12A1179
PAPAIOANNOU, SG: Three-dimensional circular interpolation for CNC machines, 11A602
PAPAKOSTAS, SN: Family of fifth-order Runge-Kutta pairs, 12A42
- General family of explicit Runge-Kutta pairs of orders 6(5), 12A43
PAPALAMBROS, PY: Discrete optimal design formulations with application to gear train design, 5A847
- Global feasible search for global design optimization with application to generalized polynomial models, 5A848
- Infeasibility and non-optimality tests for solution space reduction in discrete optimal design, 5A849
- Network reliability approach to optimal decomposition of design problems, 5A855
- Convex cutting plane algorithm for global solution of generalized polynomial optimal design models, 8A831
- Deterministic global design optimization method for nonconvex generalized polynomial problems, 8A832
PAPALOU, A: Response of impact dampers with granular materials under random excitation, 8A157
PAPANASTASIOU, P: Hydro-mechanical aspects of the sand production problem, 9A1369
PAPANGELIS, JP: Prebuckling deformations and flexural-torsional buckling of arches, 1A648
PAPANICOLAOU, E: Computation of turbulent flow in mixed convection in a cavity with a localized heat source, 3A1056
PAPANICOLAOU, G: Localization and mode conversion for elastic waves in randomly-layered media - I, 10A258
- Localization and mode conversion for elastic waves in randomly-layered media II, 10A257
PAPANICOLAOU, GC: Effect of treatment conditions on the mode I delamination fracture toughness of sandwich structures, 6A662
- Interlaminar fracture behavior of sandwich structures, 7A834
PAPANIKOLAOU, N: Effect of burner geometry on the blowout limits of jet diffusion flames in a co-flowing oxidizing stream, 12A1317
PAPANIKOLOPOULOS, NP: Selection of features and evaluation of visual measurements during robotic visual servoing tasks, 1A427
PAPANTONIS, DE: Unsteady flowfield and torque predictions during the rotation of the guidevanes of hydraulic turbine, 5A1065
PAPASTEFANOU, C: Influence of air pollutants in the ^{7}Be size distribution of atmospheric aerosols, 8A1406
PAPAZACHOS, CB: Moment-tensor summation to derive the active crustal deformation in Japan, 12A1382
PAPAZOGLOU, VJ: Deep water mooring dynamics, 3A130
- Large deflection dynamic response of composite laminated plates under in-plane loads, 7A610
- Large deflection dynamic response of composite laminated plates under lateral loads, 12A163
PAPIA, M: Stability of masonry walls subjected to seismic transverse forces, 3A1329
PAPKOV, SN: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
PAPOULIA, KD: Compression of bonded blocks of soft elastic material: Variational solution, 7A500
PAPOULIAS, FA: Dynamic loss of stability in depth control of submersible vehicles, 9A960
PAPRZYCKI, M: High performance solution of partial differential equations discretized using a Chebyshev spectral collocation method, 12A62
PAQUER, D: New bifunctionalized additives for cold rolling emulsions, 10A1230
PAQUET, P: Link between the retrograde-prograde nutations and nutations in obliquity and longitude, 7A300
PARADIES, R: Designing quasi-isotropic laminates with respect to bending, 11A483
PARAMASIVAM, P: Probabilistic approach to fatigue life prediction of repaired reinforced concrete slabs, 3A780
- Steel fibers as shear reinforcement in partially prestressed beams, 5A713
PARAMASIVAM, V: Stability analysis of axisymmetric thin shells, 8A515
PARAMESWARAN, VR: Electrical freezing potentials measured in a pingo growing in the western Canadian arctic, 11A1439
PARANJPE, R: Transient thermohydrodynamic analysis including mass conserving cavitation for dynamically loaded journal bearings, 5A1105
PARASCHIV, I: Creep, damage and failure around large rectangular-like caverns and galleries, 11A651
PARASKEVOPOULOS, PN: Sampled-data minimum ∞ -norm regulation of linear continuous-time systems using multirate-output controllers, 4T357
PARAUSANU, I: Application of asynchronous exciting force fixed in space for dynamic analysis of rotor-bearing systems, 11A818
PARBERY, RD: Optimum circular shafts in forward procession, 2A115
PARDINI, LC: Development of a tri-directional carbon fiber reinforced carbon composite for aerospace applications, 4A484
PARDIS, CJ: Optimal power-limited rendezvous with thrust saturation, 3A353
PARDO, RD: Stability of walking frames, 8A1451
PARDOUX, E: Asymptotic stability of the optimal filter with respect to its initial condition, 7T370
PAREIGE, P: Experimental study of the conversion of Lamb waves at the end of an immersed plate, 11A257
PAREKH, DE: Use of streamwise vorticity to increase mass entrainment in a cylindrical ejector, 2A967
PARHI, S: Numerical simulations of MHD wave excitation in bounded plasma slabs, 10A1189
PARIATMONO, N: Asymmetric elastic buckling of axially compressed conical shells with various end conditions, 4A577
PARIHAR, KS: Distribution of body stresses in an n-phase composite body: Prior to outside loading, 5A485
PARIKH, VH: Dynamic response of a pair of walls retaining a viscoelastic solid, 5A1318
PARIS, F: Contact problems with nonconforming discretizations using BEM, 2A372
- Explicit formulae of the integral kernels and C-matrix in the 2D Somigliana identity for orthotropic materials, 3A439
- Simplified numerical analysis of residual stresses in aluminum welded plates, 3A441
- Existence and evaluation of the two free terms in the hypersingular boundary integral equation of potential theory, 8A58
- One-dimensional model for the prediction of residual stress and its relief in welded plates, 9A517
PARK, C-M: Model for sound propagation in capillary ducts with mean flow, 7A321
PARK, CHAN: Fabrication and mechanical properties of 2024 Al-SiC$_p$ composites by mechanical alloying, 7A761
PARK, CY: Study of void crushing in large forgings - I: Bonding mechanism and estimation model for bonding efficiency, 10A703
PARK, EUN-JAE: p-version of the mixed-FEM for nonlinear second-order elliptic problems, 5A28
- Mixed methods for nonlinear second-order elliptic problems in three variables, 5A5
PARK, FC: Lie group formulation of robot dynamics, 4A399
PARK, G-J: Study of direct vs approximation methods in structural optimization, 2A733
PARK, GI: Automotive occupant dynamics optimization, 3A194
- Design of automobile exhaust system using top-down approach design methodology, 11A1280
PARK, GYUNG-JIN: Robust design for unconstrained optimization problems using the Taguchi method, 10A1029
PARK, H: Numerical techniques for predicting brittle failure of reinforced concrete planar structures, 2A759
PARK, HC: Optimum stacking sequence of composite laminates for maximum strength, 1A559
PARK, HI: Combined axial and lateral responses of tensioned buoyant platform tethers, 4A825
PARK, HJ: Fuzzy self-learning control method with application to hydroforming processes, 5A565
PARK, HM: Nonlinear hydrodynamic stability of viscoelastic fluids heated from below, 3A960
PARK, HOON C: Efficient assumed strain element model with six dof per node for geometrically nonlinear shells, 5A519
PARK, HYO SEON: Neural dynamics model for structural optimization: Application to plastic design of structures, 1A875
- Neural dynamics model for structural optimization: Theory, 1A874
PARK, HYUN CHUL: Prediction and measurement of modal damping of laminated composite beams with piezoceramic sensor-actuator, 9A195
PARK, J-H: Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, 6A968
PARK, JB: Reinforcement of bone cement around prostheses by pre-coated wire coil: A FEM study, 2A1316
PARK, JM: Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential, 8A23
PARK, JOON B: Biocompatibility of polysulfone - I: Surface modifications and characterizations, 6T1352
- Biocompatibility of polysulfone - II: Platelet adhesion and CHO cell growth, 6T1353
PARK, JS: CRC Practical Handbook of Materials Selection, 7N31
- Bimodal bound of system reliability for random composite structures, 12A838
PARK, JW: Experiments on response of impinging-jet edge tone to edge misalignment and spanwise coherence of the jet, 5A260
PARK, K: Augmented Lagrangian nonlinear programming algorithm that uses SQP and trust region techniques, 2A259
- Adaptive control for time optimal tracking systems, 10A405
PARK, KC: Consistent model reduction of experimental modal parameters for reduced-order control, 1T374
- Equilibrium constrained assumed natural coordinate strain plate elements, 1A629
- Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, 5A332
- Helically curved unfurlable structural elements: Kinematic analysis and laboratory demonstration, 8A839
PARK, KYU YEOL: Delamination-free and high efficiency drilling of carbon fiber reinforced plastics, 4A483
PARK, MOON SHIK: Prediction of bending collapse behaviors of thin-walled open section beams, 10A626
PARK, MS: Geometrically nonlinear and elastoplastic 3D shear flexible beam element of von-Mises-type hardening material, 7A42
- Prediction of mode parameters and moment-rotation curves for crushed thin-walled trapezoidal tubes in bending, 12A586
PARK, S: Nonlinear transient response and its sensitivity using FEs in time, 10A20
PARK, S-H: Conjugate heat transfer from a single surface-mounted block to forced convective air flow in a channel, 11A1107
PARK, SANG-JIN: Heat transfer by oscillating flow in a circular pipe with a sinusoidal wall temperature distribution, 1A1179
PARK, SEUNG O: Measurements and control of particle deposition velocity on a horizontal wafer with thermophoretic effect, 2A1207
PARK, SH: Numerical study on combustion of a liquid fuel droplet, 12A1319
PARK, T: Anisotropic damage of fiber-reinforced MMC using overall damage analysis, 3A690
- Anisotropic damage for the characterization of the onset of macro-crack initiation in metals, 7A857
PARK, T-D: Collapse of dented cylinders under external pressure, 8A503
PARK, TAE HYOUNG: Dynamic control of a robot manipulator for high-performance conveyor tracking, 2A297
PARK, TAE SEON: Nonlinear low-Reynolds-number k-ϵ model for turbulent separated and reattaching flows - I: Flow field computations, 1A1088
- Local convective mass transfer on circular cylinder with transverse annular fins in crossflow, 6A1179
PARK, TW: Numerical study of droplet-vortex interactions in an evaporating spray, 11A1182
PARK, WC: Unsteady forces on spherical bubbles, 1A1040
PARK, WOO SUN: Wave reflection from perforated-wall caisson breakwaters, 7T271
PARK, Y-S: Study of direct vs approximation methods in structural optimization, 2A733
PARK, YC: Fast adaptive noise control algorithm based on the lattice structure, 6A253
PARK, YEON-SOO: Very low cycle failure process of steel angle members, 7A929
PARK, YH: Contact mechanics analysis of frictional slip of inclusions embedded in dissimilar matrices using the BEM, 3A46
- Configuration design sensitivity analysis of nonlinear structural systems with elastic material, 11A498
- Design sensitivity analysis of truss structures with elastoplastic material, 11A785
PARK, YM: Mechanics of kinking and buckling of plastic board drains, 8A506
PARK, YON-KYU: Bias error due to windows for the Wigner-Ville distribution estimation, 5A301
PARK, YOUN-SIK: Error analysis of indirect force determination and a regularization method to reduce force determination error, 5A318
- Dynamic stability analysis of a closed-loop flexible link mechanism, 11A552
PARK, YOUNG J: New conversion method from response spectrum to PSD functions, 6A53
PARK, YOUNG-PIL: Exploration of a mobile robot based on sonar probability mapping, 9A450
PARK, YS: Vibration analysis of a 3D piping system conveying fluid by wave approach, 10A157

PARKER, AP: Fatigue life analyses and tests for thick-wall cylinders including effects of overstrain and axial grooves, 5A620

PARKER, EHC: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512

PARKER, G: Incipient channels formed at the downstream end of plateaux (Japanese), 3A879

- Longitudinal streaks, 6A885

- Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation (French), 8T401

- Nearly-pure sorting waves and formation of bedload sheets, 10A1060

- Numerical simulation of aggradation and downstream fining (French), 12T1027

PARKER, GG: Spacecraft Euler parameter tracking of large-angle maneuvers via sliding mode control, 11T302

PARKER, GJ: Theoretical study of the performance of an axial flow turbine for a microhydro installation, 10A1214

PARKER, JD: Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part B: The influence of carbides, 10A822

- Effect of microstructure on fracture mechanisms of 2.25Cr1Mo low alloy steel - Part A: The influence of non-metallic inclusions, 10A821

- Strain localization in creep testing of samples with heterogeneous microstructures, 12A725

PARKER, RG: Exact boundary condition perturbation solutions in eigenvalue problems, 9A170

PARKER, SC: Spatial phase stepping method of fringe-pattern analysis, 3A732

PARKER, SL: Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, 9A1233

PARKER, TE: Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, 4A1254

- Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, 8A1057

PARKER, TW: Theoretical upper limits on enthalpy rocket performance, 8A1292

PARKES, NE: LQ-optimization: A cautionary tale, 2A263

- Variational approach to the polynomial optimization of multivariable control with colored noise at the controller output, 3T329

PARKIN, GF: Individual biotransformation rates in chlorinated aliphatic mixtures, 6T1305

PARKIN, RM: Fine motion strategies for robotic peg-hole insertion, 7A443

PARKINS, DW: Measurement of oil film journal bearing damping coefficients: An extension of the selected orbit technique, 5A1108

- Single-axial groove journal bearings: Static characteristics and temperature prediction technique, 7T1011

- Thrust cone lubrication - Part 3: A test facility and preliminary measured data, 11A821

PARKINS, RN: Crack interaction, coalescence, and mixed-mode fracture mechanics, 8A670

- Crack interaction, coalescence and mixed-mode fracture mechanics, 10A814

PARKINSON, AG: Rotordynamic standards: New developments and the need for involvement, 4A212

PARKINSON, BW: Optimal recursive iterative algorithm for discrete nonlinear least-squares estimation, 11A267

PARKS, DM: Criterion for plane strain, fully plastic, quasi-steady crack growth, 6A646

PARKS, EK: Parameter identification and modeling of longitudinal aerodynamics, 1A264

PARLANGE, J-Y: Two-dimensional interaction of a wetting front with an impervious layer: Analytical and numerical solutions, 4A1301

- Note on the soil-water conductivity of a fractal soil, 10T1410

PARLANGE, M: Random sweeping decorrelation hypothesis stratified turbulent flows, 2A987

PARLANGE, MB: Spatial structure of turbulence at production wavenumbers using orthonormal wavelets, 2A993

- Multifractal analysis of lidar measured water vapor, 8T88

- Convective scaling of the average dissipation rate of temperature variance in the atmospheric surface layer, 12A1415

PARLATAN, Y: Buoyancy and property variation effects in turbulent mixed convection of water in vertical tubes, 11A1130

PARLETTE, EB: Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, 8A990

PARMENTER, KE: Influence of surface preparation on thermal contact conductance of stainless steel and aluminum, 6A1117

PARMENTIER, PM: Numerical simulations of interface viscosity effects on thermoconvective motion in 2D rectangular boxes, 1A1191

PARNIANPOUR: Stabilizing role of moments and pelvic rotation on the human spine in compression, 9A1437

PAROLA, AC: Effects of rectangular foundation geometry on local pier scour, 6T883

PAROUBEK, J: Experimental investigation and performance analysis of six low flow coefficient centrifugal compressor stages, 5A1044

PARPIA, IH: Simulation of multiple shock-shock interference patterns on a cylindrical leading edge, 9A298

PARRA, E: Liquefaction of reclaimed island in Kobe, Japan, 6A530

PARRIAUX, A: Automatic nodes generation in N-dimensional space, 10A43

PARRIS, J: Hierarchically partitioned solution strategy for CFD applications - Part I: Theory, 4A976

- Hierarchically partitioned solution strategy for CFD applications - Part II: Numerical applications, 4A977

PARROT, M: Physical mechanisms of man-made influences on the magnetosphere, 8A1330

PARROTT, LJ: Effects of cement and curing upon carbonation and reinforcement corrosion in concrete, 10A893

PARROTT, TL: Parallel-element liner impendances for improved absorption of broadband sound in ducts, 7A355

- Validation of a numerical method for extracting liner impedance, 8A105

PARSA, K: Buckling of advanced composite prestressed units under inplane loading, 12A627

PARSONS, AR: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329

PARSONS, AW: Road surface correction of tire test data, 7A977

PARTEDER, E: Elliptical subsurface cracks under a normal stress and a residual stress field, 8A622

PARTER, SY: Preconditioning cubic spline collocation discretizations of elliptic equations, 4T74

PARTHAN, S: Wave propagation in 1D multi-bay periodically supported panels under supersonic fluid flow, 2A155

- Finite element flutter analysis of composite skew panels, 4A292

PARTHASARATHY, G: Finite volume radiative heat transfer procedure for irregular geometries, 1A1274

- Monte Carlo solutions for radiative heat transfer in irregular 2D geometries, 3T1129

- Simple approach to non-gray gas modeling, 6A1143

PARTHASARATHY, M: Microstructural investigation of the nonlinear response of electrorheological suspensions - Part II: Oscillatory shear flow, 4A899

- Microstructural investigation of the nonlinear response of electrorheological suspensions - I: Start-up of steady shear flow, 4A898

PARTHASARATHY, V: Adaptive prismatic-tetrahedral grid refinement and redistribution for viscous flows, 9A1085

PARTHASARATHY, VM: Application of SPSLIFE to preliminary design evaluation and life assessment of CSGT components, 5A633

PARTOM, Y: L/D effect for long-rod penetrators, 7A255

PARTRIDGE, C: Acoustic scattering from a rigid tapered finite parabolic cylinder, 3A270

- Acoustic scattering from a rigid tapered finite elliptic cylinder, 4A315

- Acoustic scattering from viscoelastically coated bodies, 6A240

PARTRIDGE, IK: Mixed-mode fracture in an interleaved carbon-fiber-epoxy composite, 7A836

PARTYKA, S: Application of the calorimetry to studies of colloidal phenomena: Enthalpies of micellization and enthalpies of adsorption of zwitterionic surfactants onto silica gel, 4A896

PARVATAREDDY, H: Physical aging behavior of high-performance composites, 3A685

- Evaluation of chemical aging-oxidation in high-performance composites using the Vickers microindentation technique, 8A472

PARVULESCU, A: Matched-signal ("MESS") processing by the ocean, 1A305

PASANG, T: Failures of welded titanium aircraft ducts, 6A597

PASCAL, H: Similarity solutions to shear flows of non-Newtonian power law fluids, 3A906

- Similarity solutions to rotating Couette flow of non-Newtonian fluids in the presence of a magnetic field, 11A900

PASCAL, J-C: Influence of microphone vents on measurements of acoustic intensity and impedance, 7A369

- Acoustic holography: A tool for the control and diagnostic of machines and industrial equipments (French), 11T160

PASCAL, JP: Similarity solutions to shear flows of non-Newtonian power law fluids, 3A906

- Similarity solutions to rotating Couette flow of non-Newtonian fluids in the presence of a magnetic field, 11A900

PASCAL, P: Simple description of some inertia effects in the behavior of heavy particles in a turbulent gas flow, 11A928

PASCAZIO, G: Cell-vertex adaptive Euler method for cascade flows, 4A973

- Critical analysis of multi-dimensional upwinding for the Euler equations, 6A895

PASCOVICI, MD: Accuracy of the isoviscous solution of the Reynolds equation in mechanical seals, 11A822

PASHBY, IR: Machining of aluminum based metal matrix composites, 2A540

PASHKEVICH, MI: Approximate formula for wear of ball reducer parts, 6A830

PASHKOV, AI: Digitally controlled invariant active vibration-isolation system for microgravity protection, 7A397

PASIN, F: Continuous modeling of the torsional vibrations of the drive shaft of mechanisms, 5A158

- Separation phenomena in force closed cam mechanisms, 9A995

PASKOTA, M: Control of chaos: Higher periodic orbits, 3A95

PASLAY, PR: Modeling of roller cone bit lift-off dynamics in rotary drilling, 5A1346

PASQUALI, A: Identification of parameters in polymer crystallization, 2A451

PASQUALINI, A: Natural frequencies and modes of free-edge circular plates vibrating in vacuum or in contact with liquid, 6A211

PASQUARELLI, F: Spectral multidomain approximation of elliptic problems with mixed conditions on the interfaces, 4A75

PASQUINELLI, G: Simulation of metal-forming processes by the FEM, 1A710

- Numerical solution of equilibrium problems for elastic solids with bounded tensile strength, 4A441

PASRICHA, A: Time-dependent response of IM7/5260 composites subjected to cyclic thermomechanical loading, 3A471

- Nonlinear viscoelastic-viscoplastic behavior of IM7/5260 composites subjected to cyclic loading, 4A520

- Time-dependent response of IM7-5260 composites subjected to cyclic thermo-mechanical loading, 9A551

PASSECHNICK, VI: Fluctuation theory of thermal acoustic radiation, 6A227

PASSEREL, D: Reconsideration of oblique shock wave reflections in steady flows - Part 1: Experimental investigation, 4A266

PASSOS MORGADO, AH: Equations of motion of body for accelerated frames, 9A133

PASTERNAK, H: Design of steel frames with slender joint-panels, 1A649

- Crane load modeling, 7A920

PASTOR, J: Method for predicting linear viscoelastic mechanical behavior of composites, a comparison with other methods and experimental validation, 4A512

- Modeling the inelastic interphase in unidirectional composites, 4T533

PASTOR, M: Patch test for mesh alignment effects in localized failure, 5A617

- Softening, localization and adaptive remeshing: Capture of discontinuous solutions, 6A412

PASTORE, C: Modification and application of a unit cell continuum model to predict the elastic properties of textile composites, 6A454

PASTORELLI, S: Kinematic analysis of a gearless articulated speed reducer, 2T65

- Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, 4A409

PASTRAVANU, O: Discrete-time model reference adaptive control of nonlinear dynamical systems using neural networks, 11A355

PASTRONE, D: Analysis of air-turborocket performance, 2A1194

PATANKAR, SV: Finite volume radiative heat transfer procedure for irregular geometries, 1A1274

- Monte Carlo solutions for radiative heat transfer in irregular 2D geometries, 3T1129

- Simple approach to non-gray gas modeling, 6A1143

- Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, 10A1083

PATCHING, MJ: Conditions for scuffing failure of ground and superfinished steel disks at high sliding speeds using a gas turbine engine oil, 5T790

PATE, A: Sensitivity of the wave-number domain field separation method for scattering, 12A310

PATEL , VC: Application of turbulence models to separated flow over rough surfaces, 1A1050

PATEL, D: Gravitational effects on closed-cellular-foam microstructure, 10A329

PATEL, MH: Analysis of drill strings in vertical and deviated holes using the Galerkin technique, 2A98

- Combined axial and lateral responses of tensioned buoyant platform tethers, 4A825

- Transient behavior of towed marine cables in two dimensions, 7A975

- Transient behavior of marine cables being laid: The 2D problem, 9A959

PATEL, N: Developing combined convection in an eccentric annulus, 12A1218

PATEL, NR: Titan IV motor failure and redesign analysis, 1A1346

PATEL, RV: Optimal tracking control of multi-zone indoor environment spaces, 5A1181

PATEL, VC: Numerical model of flow in ice-covered channel, 6A874

- Numerical model of turbulent flow over sand dune, 6A878

PATERA, AT: Analysis of a part design procedure, 3A418

PATES III, CS: Sound-structure interaction analysis of composite panels using coupled boundary and FEMs, 1A331

PATHAK, SD: Studies on the impact behavior of banded microalloyed steel, 9A834

PATHIRAJ, B: X-ray fractography studies on austenitic stainless steels, 10A736

PATIGNY, J: Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), 10A1236

PATIL, KR: Absorption heat pump with the TFE-TEGDME and TFE-H_2O-TEGDME systems, 7A1270

PATIL, PV: Adhesion improvement and intrinsic stress decrease in cerium oxide thin films by chopping, 9A1032

PATNAIK , SN: Three dimensional structural analysis by the integrated force method, 5A726

PATNAIK, SN: Merits and limitations of optimality criteria method for structural optimization, 2A725

- Structural optimization with approximate sensitivities, 3A765

- Completed Beltrami-Michell formulation for analyzing mixed boundary value problems in elasticity, 6A376

- Development of FEs for 2D structural analysis using the integrated force method, 9A53

- Comparative evaluation of different optimization algorithms for structural design applications, 10A876

PATNAIK, V: Roll waves in falling films: An approximate treatment of the velocity field, 8A892

- Study of absorption enhancement by wavy film flows, 8A1246

PATNAIKUNI, I: Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, 7A938

PATRA, A: Problem decomposition for adaptive hp FEMs, 2A27

- hp-version discontinuous Galerkin methods for hyperbolic conservation laws: A parallel adaptive strategy, 4A31

- Identification of a class of nonlinear continuous-time systems using Hartley modulating functions, 5T303

- Parallel hp-adaptive discontinuous Galerkin method for hyperbolic conservation laws, 12A80

PATRIA, A: Influence of amylose content on the viscous behavior of low hydrated molten starches, 11A855

PATRICK, M: Normal stress distribution of notched 2D triaxial braided textile composites and tape equivalents under tension, 10A577

PATRIE, BJ: Instantaneous 3D flow visualization of a supersonic mixing layer, 8A916

PATRY, GG: Case studies in dynamic modeling of large-scale wastewater treatment plants, 11A1448

PATTEN, WN: Controlled semiactive hydraulic vibration absorber for bridges, 7A912

PATTERSON, A: Surface pressure measurements on a pitching swept wing in a water channel, 3A989

PATTERSON, EA: Effect of mean stress on the fatigue limit of high tensile bolts, 2A584

- Effect of eccentric loading on the stress distribution in thread roots, 5A398

- Experimental determination of stress intensity factors of cracks in sheet structures with bolted stiffeners, 8A623

PATTERSON, HA: Strain in the medial collateral ligament of the human knee under single and combined loads, 6A1318

PATTERSON, JC: Natural convection in a side-heated cavity: Visualization of the initial flow features, 1A1189

PATTERSON, JS: Installation, testing, and lessons learned of the TF40B gas turbine test facility, 10A1395

PATTERSON, R: Spacecraft expected-cost analysis with k-out-of-n:G subsystems, 5T755

PATTIN, CA: Cyclic mechanical property degradation during fatigue loading of cortical bone, 6A1309

PATTON, HJ: Phase and spectral ratio discrimination between NTS earthquakes and explosions - Part I: Empirical observations, 2A1233

PATTON, RJ: Design of unknown input observers and robust fault detection filters, 8A347

PATTON, ST: Effect of interchanging tapes and head contour on the durability of metal evaporated, metal particle and barium ferrite magnetic tapes, 2T803

PATUTINSKII, VL: Estimation of necessary accuracy of measuring airplane speed and coordinates of touchdown in automatic landing, 6T356

PATYN, J: Calculation of Weibull life expectancy parameters from fracture data using the maximum likelihood criterion and a Nelder-Mead simplex minimization algorithm, 10A755

PAUCHON, C: Nonlinear stability of a defective cylindrical shell, 8A499

PAUK, VJ: Plane contact problem for periodic laminated composite involving frictional heating, 5A474

PAUKER, WHG: Optimization of flow geometries applying quasi-analytical sensitivity analysis, 9A1156

PAUL, DK: Soft missile impact on rigid targets, 2A170
PAUL, FW: Fourier series neural network and its application to system identification, 5A342
PAUL, GR: New Method of investigating piston ring friction under firing conditions, 10A1003
PAUL, HS: Flexural vibration of piezoelectric composite hollow cylinder, 6A511
- Flexural vibration in a finite piezoelectric hollow cylinder of class 6mm, 6A510
PAUL, JP: Design and performance of an experimental external fixation device with load transducers, 4A1369
- Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, 6A1323
- Static *in situ* calibration of force plates, 8A1441
- Three-dimensional joint co-ordination strategies of the upper limb during functional activities, 9A1440
PAUL, JT: Numerical study of free convective heat transfer from a heated half-cylinder in an enclosure, 3A1044
PAUL, M: Theoretical and experimental study on buckling of built-up columns, 2A488
- Buckling loads for built-up columns with stay plates, 3A551
PAUL, O: Two-dimensional integrated gas flow sensors by CMOS IC technology, 3T396
PAUL, S: Effect of cryogenic cooling on grinding forces, 3A627
- Preliminary investigation of the use of air injection to mitigate cavitation erosion, 5A873
- Determination and control of grinding zone temperature under cryogenic cooling, 7A750
PAULEY, WR: Measuring unsteady velocity profiles and integral parameters using digital image processing of hydrogen bubble timelines, 5A876
PAULINO, GH: Hypersingular residuals: A new approach for error estimation in the BEM, 12A54
PAULL, A: Experiments on supersonic combustion ramjet propulsion in a shock tunnel, 1A245
PAULMIER, D: Friction behavior of a graphite-graphite dynamic electric contact in the presence of argon, 10A965
PAULSEN, R: Long term effect of noise protection barriers on the annoyance response of residents, 1A338
PAULSEN, WH: Eigenfrequencies of the 3D Euler-Bernoulli beam system with dissipative joints, 4A154
PAULSON JR, JW: Experimental and computational analysis of shuttle orbiter hypersonic trim anomaly, 5A745
PAUMIER, J-C: Contact problem with slip displacement dependent friction in elastostatics, 9A479
PAUNOV, VN: Lateral capillary interaction between particles protruding from a spherical liquid layer, 2A922
PAUWELS, E: Symmetry from shape and shape from symmetry, 2A320
PAUWELS, J-P: Effect of alkene addition on the structure of a rich $C_2H_2/O_2/Ar$ flame, 11A1281
PAUZIN, S: Shocks detection in a piping system network (French), 11A164
PAVAN, A: Viscoelastic effects on the interlaminar fracture behavior of thermoplastic matrix composites - I: Rate and temperature dependence in unidirectional PEI-carbon-fiber laminates, 1A786
PAVELEC, RS: Distributed mechanics of the canine right ventricle: Effects of varying preload, 6T1337
PAVESE, G: Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, 4A1288
PAVIER, MJ: Analytical and FE predictions of residual stresses in cold worked fastener holes, 3A465
- Assessment of residual-stress measurements around cold-worked holes, 5A458
- Experimental techniques for the investigation of the effects of impact damage on carbon-fiber composites, 5A644
- Specialized composite plate element for problems of delamination buckling and growth, 7A43
PAVIOV, OY: Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, 8A1204
PAVITHRAN, C: Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, 7A562
PAVLIS, GL: Site effect observations from broadband arrays, 6A1269
PAVLOV, AN: Operator-splitting methods for the incompressible Navier-Stokes equations on non-staggered grids - Part 1: First-order schemes, 2A895
PAVLOV, BM: Concept of boiling-up shock, 6A201
PAVLOV, SP: Investigation of free vibration of flexible shells with finished shear rigidity by Neumark method (Russian), 7A173
PAVLOV, VA: Phenomenon of disastrous change of flying vehicle lifting surface shape, 6A1015
PAVLOV, VG: Group interpretation of 2D potential flows of incompressible liquid, 11A869
PAVLOV, YS: Multicriteria simulation and analysis, 12A973
PAVLOVIC , MN: Analysis of thin shells by the two-surface truss model - II: Numerical performance, 9A586
PAVLOVIC, MN: Structural Concrete: Finite-Element Analysis for Limit-State Design, 5R18
- Symmetry-adapted flexibility approach for multi-story space frames - Part 1: General outline and symmetry-adapted redundants, 3A809
- Symmetry-adapted flexibility approach for multi-story space frames - Part 2: Symmetry-adapted loads, 3A810
- Orthotropic rectangular plates under in-plane loading - Part 1: Closed-form solutions for stresses, 4A558
- Orthotropic rectangular plates under in-plane loading - Part 2: Application to the series solution by reference to the problem of colinear compression, 4A559
- Application of the compressive-force path concept in the design of reinforced concrete indeterminate structures: A pilot study, 8A740
- Analysis of thin shells by the two-surface truss model - I: A general formulation, 9A585
- Bending and stretching actions in shallow domes - Part 1: Analytical derivations, 11A512
- Bending and stretching actions in shallow domes - Part 2: A comparative study of various boundary conditions, 12A600
PAVLOVIC, R: Influence of the transverse shear deformation on stochastic instability of isotropic plates, 12A621
PAWAR, SH: Fertilizer solar ponds as a clean source of energy: Some observations from small scale experiments, 5A1352
PAWELEC, E: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191
PAWELEK, A: Propagation of an effective shear stress as solitary wave and possibility of non-crystallographic slip in polycrystals, 1A517
PAWELL, A: Dissolution effects in transport in porous media, 7A1357
PAWINSKI, J: Changes of methane mean concentration in preparatory works excavated in roadheaders (Polish), 3A1352
- Changes of the methane concentration in dog headings (Polish), 9T1406
PAWLICA, J: Influence of galvanic waste additives on properties of ordinary concrete (Polish), 3A799
PAWLISZYN, J: Results of induction study within the Pomeranian segment of the Teisseyre-Tornquist tectonic zone, 6T1261
PAWLOWICZ, R: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
PAWLOWICZ, RA: Simulated tomographic reconstruction of ocean features using drifting acoustic receivers and a navigated source, 3A259
PAWLOWSKI, W: PN and ISO standards of modular coordination, tolerances, dimensioning, and measurement procedures in buildings (Polish), 10T903
PAXSON, DE: Comparison between numerically modeled and experimentally measured wave-rotor loss mechanisms, 2A1045
PAXTON, JP: Material-property effects on a thin-film solar concentrator, 1A1348
PAYANDEH, S: Methods for low-velocity friction compensation: Theory and experimental study, 11A805
PAYATAKES, AC: Generalized relative permeability coefficients during steady-state two-phase flow in porous media, and correlation with the flow mechanisms, 4A1306
PAYNE, JL: Analysis of the photodiode boundary-layer transition indicator, 1A1045
PAYRE, G: Nonlinear oscillations and chaotic motions in a road vehicle system with driver steering control, 7A110
PAYRI, F: Acoustic boundary condition for unsteady 1D flow calculations, 5A282
- Modeling of supercharger turbines in internal-combustion engines, 12A1176
PAYTON, CJ: Estimating propulsive forces in swimming from 3D kinematic data, 6A1378
PEACOCK, GR: Sound-pressure response measurement in small rooms over a finite region, 5A295
PEACOCK, JC: Winging of the scapula: The underlying biomechanics and an orthotic solution, 6A1319
PEAKE, N: Three-dimensional effects in cascade-gust interaction, 12A277
PEARCE, CJ: Computational aspects of a softening plasticity model for plain concrete, 10A561
PEARCE, RG: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304
PEARCEY, J: Maintenance of a commercial fusion power station and its implications for safety, 11T1474
PEARCY, M: Biological basis for instantaneous centers of rotation of the vertebral column, 3A1403
PEARLMAN, HG: Flame propagation and extinction in spatially-periodic longitudinal velocity fields, 5A1215
PEARSON, JC: Concrete penetration by eroding projectiles: Experiments and analysis, 7A252
- Constitutive models for concrete penetration analysis, 8A189
PEARSON, PK: Hybrid ceramic bearings for difficult applications, 10A1011
PEARSON, RA: Applications of Fracture Mechanics in Electronic Packaging and Materials, EEP-Vol 11/MD-Vol 64 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 5N20
PEART, WL: Dynamic influence of flexible payloads on space shuttle RMS, 10A944
PEAT, KS: Comments on "Matrizant approach to acoustic analysis of perforated multiple pipe mufflers carrying mean flow", 10T374
PECHAROVA, I: New approaches to the spinning of cellulose fibers, 6T464
PECHMANN, JC: Simulation of 3D elastic wave propagation in the Salt Lake Basin, 6A1231
PECHT, M: Environmental scanning electron microscopic investigation of failure mechanisms in electronic packages, 3A672
PECHTL, P: Modeling of (cogeneration) power plants on time-dependent power demands of the consumer, 10A1398
PECINKA, L: LBB project for the new generation of WWER plants and lessons learned from the WWER 440 model 230 LBB project, 3A1360
PECKER, A: Validation of small strain properties from recorded weak seismic motions, 4A601
PECKHAM, DE: Engineering the interface in composites and bonded components, 8A452
PECORARI, C: Ultrasonic wave scattering from rough, imperfect interfaces - Part I: Stochastic interface models, 8A182
- Ultrasonic wave scattering from rough, imperfect interfaces - Part II: Incoherent and coherent scattered fields, 8A183
PECULEA, M: Method for plotting the gasodynamic field in the rotor of a cryogenic turboexpander, 11A1042
PEDERSEN, DR: Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
- Sliding-distance-coupled FE formulation for polyethylene wear in total hip arthroplasty, 8A1450
PEDERSEN, EM: Solution adaptive direct variational grids for fluid flow calculations, 11A925
PEDERSEN, NF: Kink-dynamics of the perturbed sine-Gordon equation, 10A107
PEDERSEN, P: Simple transformations by proper contracted forms: Can we change the usual practice?, 3A445
- Design of joint position for minimum mass 3D frames, 11A719
PEDLEY, TJ: Computation of Stokes flow in a channel with a collapsible segment, 5A941
- Dispersion in oscillatory channel flow with coupled transverse wall motion, 10A1147
- Numerical simulation of unsteady flow in a 2D collapsible channel, 11A961
PEDRESCHI, R: Shear behavior of press-joining in cold-formed steel structures, 10A912
PEDRINI, G: Digital double-pulse holographic interferometry for vibration analysis, 7A875
PEDRIZETTI, G: Unsteady tube flow over an expansion, 9A1150
PEDZIWIATR, J: New model for cracking analysis of tension reinforced concrete members based on the bond-slip relationships, 9A920
PEEBLES JR, LH: Carbon Fibers: Formation, Structure, and Properties, 6N20
- Assessment of carbon fiber-organic matrix interactions, 8A446
PEEK, R: Post-bifurcation and imperfection sensitivity of space trusses with many simultaneously buckling bars and a strongly nonlinear prebuckling solution, 3A547
PEERHOSSAINI, H: Numerical and experimental investigation of direct electric conduction in a channel flow, 6A1095
PEERLINGS, RHJ: Gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials, 6A651
PEETERS, LJB: Thermally-induced shapes of unsymmetric laminates, 10A1341
PEFIL, MS: Aerodynamic stability analysis of cable-stayed bridges, 6A159
PEGG, N: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
PEGNA, J: Surface curve design by orthogonal projection of space curves onto free-form surfaces, 8A830
PEHAM, C: Method of signal processing in motion analysis of the trotting horse, 12A1471
PEHAN, S: Applying numerical methods for determining the service life of gears, 2A677
PEHLIVANOV, AI: Least-squares mixed FEM for non-selfadjoint elliptic problems - Part I: Error estimates, 7A8
PEI, DUOLI: Locally generated surface waves in Santa Clara Valley: Analysis of observations and numerical simulation, 6A1284
PEI, JUNHOU: Examination of key aspects defining the performance characteristics of out-of-plane joints in FRP marine structures, 6A447
PEIJS, T: Mechanical properties of flexible knitted composites, 12A566
PEIL, U: Modified nonlinear member element allowing large loading and displacement increments, 10A34
PEIRCE, AP: Spectral multipole method for efficient solution of large-scale BE models in elastostatics, 4A68
PEIRLINCKX, L: Parametric calibration of electroacoustic transducers, 6A707
PEIROTTI, MB: Free damped oscillation of the linear visco-elastic material, 1A961
PEISAKH, EE: Algorithm for determining the workspace of a 4R manipulator on the bases of the theory of envelopes, 5T380
- Method for identifying the structural diagrams of linkages, 9A1023
PEKALAK, M: Resonant beahvior of a drive system with silentblock coupling, 9A225
PEKAU, OA: Time domain procedure of FE-BE-IBE coupling for seismic interaction of arch dams and canyons, 5A1334
- Application of BE analysis for multiple seismic cracking in concrete gravity dams, 6A1273
- Static and dynamic analysis of tall tube-in-tube structures by finite story method, 11A141
PEL, L: Determination of moisture diffusivity in porous media using moisture concentration profiles, 7A1300
PELACCIO, DG: Hydrogen corrosion considerations of carbide fuels for nuclear thermal propulsion applications, 4A1275
PELAGAGGE, PM: Analysis of heat recovery in gas-solid moving beds using a simulation approach, 3A1258
PELEG, K: Optimal scale translations in noisy measurement systems, 4A394
PELEGRI, AA: Growth behavior of internal delaminations in composite beam-plates under compression: Effect of the end conditions, 10A795
PELETIER, LA: Location of defects in stationary solutions of the Ginzburg-Landau equation in R^2, 7T686
PELLE, JP: Error estimation and adaptivity in elastoplasticity, 6A409
PELLEGRINI, O: Elastic constants of a material containing spherical coated holes, 1A471
PELLEGRINO, S: Large retractable appendages in spacecraft, 5A748
- Cable-stiffened pantographic deployable structures - Part 1: Triangular mast, 9A966
- Folding of triangulated cylinders - Part III: Experiments, 9A967
PELLETIER, D: Adaptive FEM for mixed convection, 3A1053
PELLETT, GL: Global characteristics and structures of hydrogen-air counterflow diffusion flames, 11A1275
PELLICANE, PJ: Formulation of a bondline element for modeling glued joints in wood, 6A12
- Shear properties of components used in stressed-skin panels, 11A701
PELLINEN, R: Influence of solar cosmic ray bursts on the temperature of the high-latitudinal atmosphere, 9A1403
PELLISSIER-TANON, A: French industry experience on constraint and size effects in the upper transition region, 1T1411
PELORSON, X: Aeroacoustics of musical instruments, 11A244
PELTIER, LJ: Numerical simulation of time-dependent thermocapillary convection in layered fluid systems, 3A1067
- Experimental microneteorology in an era of turbulence simulation, 12A1425
PELTS, SP: Source influence parameters on elastic guided waves in an orthotropic plate, 9A252
PENA, J: Finite element analysis applied to radial aircraft tire engineering, 8A775
PENA, JM: Pivoting strategies leading to small bounds of the errors for certain linear systems, 9A130
PENANHOAT, O: Simplified model and Navier-Stokes calculations for hypersonic air intakes design, 11A919
PENDER, DC: Microstructural influence in slurry erosion of ceramics, 4A685
PENDER, G: Limitations of traditional finite volume discretizations for unsteady computational fluid dynamics, 10T38
PENDLETON, E: Transonic aeroelastic models of highly swept hypersonic lifting surfaces, 5A230
PENDLETON, JD: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
PENDYALA, R: Full-range behavior of high-strength concrete flexural members: Comparison of ductility parameters of high and normal-strength concrete members, 7A938
PENG , XIONGQI: Study on quasi-pure probabilistic FEM (Chinese), 9A71
PENG , ZEMIN: Location and modification of errors in structural dynamic models (Chinese), 3A173
PENG, B-F: Explicit closed-form solution for linear systems subjected to nonstationary random excitation, 9A929
PENG, CHENGBIN: Pressure in a fluid-filled borehole caused by a seismic source in stratified media, 6A1253

PENG, CHING-GANG: Use of fluorspar in water fluoridation, 6T1304
PENG, F: Review of droplet dynamics and vaporization modeling for engineering calculations, 5A920
- Effect of branch orientation on annular two-phase flow in T-junctions, 9A1125
PENG, H: Advanced Automotive Technologies, DSC-Vol 56/DE-Vol 86 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N8
PENG, HUA-JYE: Adaptive control of linear unstructured time-varying systems, 2A245
PENG, JIU-LIN: Analysis of concrete placement load effects using influence surfaces, 9A907
PENG, JL: Stability analysis of semirigid steel scaffolding, 4A871
- High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, 7A925
- High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, 7A924
PENG, JM: Unconstrained methods for generalized nonlinear complementarity and variational inequality problems, 10A64
PENG, JS: Semi-analytical approach for solving forced vibration problems based on a convolution-type variational principle, 7A189
PENG, LONG: Methods with high accuracy for FE probability computing, 1A33
PENG, PEI-YUAN: Neural network design with genetic learning for control of a single link flexible manipulator, 9A462
PENG, SW: General mathematical modeling for heat and mass transfer in unsaturated porous media: An application to free evaporative cooling, 6A1111
PENG, TIANGUO: Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, 9A105
PENG, W-K: Dynamic stability of rotating blades with geometric nonlinearity, 4A211
PENG, XF: Experimental investigation of countercurrent liquid-vapor interactions and their effect on the friction factor, 6T944
- Forced convection heat transfer of single-phase binary mixtures through microchannels, 6T1070
- Flow boiling of binary mixtures in microchannel plates, 7A1234
- Convective heat transfer and flow friction for water flow in microchannel structures, 11A1108
PENG, XIANGHE: Endochronic analysis for compressive buckling of thin-walled cylinders in yield region, 4T578
PENG, YAFEI: Faults in the stress analysis of power-hardening materials with pseudo-stress function method, 12T478
PENG, Z: Development of shear bands during the perforation of a steel plate, 10A1332
PENG, ZEMIN: Modification of dynamic model of mechanical structures based on fuzzy optimization knowledge (Chinese), 4A101
PENKAR, R: Kinematic analysis of a hybrid serial-and-parallel-driven redundant industrial manipulator, 4A398
PENKO, PF: Simulation of overexpanded low density nozzle plume flow, 2A962
PENNATI, G: Numerical analysis of steady flow in aorto-coronary bypass 3D model, 11A1468
PENNING, FM: Steam injection: Analysis of a typical application, 5A1265
PENNINGTON, BT: Formation of propene oxide from the co-oxidation of propene and acetaldehyde, 3A1228
PENNY, J: Operation of a four-bar mechanism above several critical speeds, 10A83
PENNY, JET: Model reduction using dynamic and iterated IRS techniques, 2A24
- Quantifying the correlation between measured and computed mode shapes, 10A126
PENNY, RK: Design for Creep, Second Edition, 9R8
- 3rd International Colloquium: Aging of materials and methods for assessing the lifetime extension of engineering plants, 7A789
PENNYCUICK, CJ: Stress and strain in the flight muscles as constraints on the evolution of flying animals, 8A1419
PENOT, F: Natural convection in a differently heated square cavity: Experimental investigation at Ra = 1.69×10^9, 4A1152
PEOPLES, RC: Low-cost NO_x reduction retrofit for pump scavenged compressor engines, 5A1066
PEORIAUX, J: Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany, 6N3
PEPERSTRAETE, JA: Internal model control with improved disturbance rejection, 2T280
PEPPER, DW: Time-split FE scheme for the PC, 3A35
- Mesh generation and numerical simulation of fluid entering a large tube bundle, 6A912
PERADZYNSKI, Z: Stability of plasma induced during CW CO_2 laser welding, 3A643
PERAIRE, J: Unstructured tetrahedral mesh generation for 3D viscous flows, 7A1073
PERALTA, AD: Subcritical crack growth life prediction for ceramic components of advanced heat engines, 10A805
PEREGINE, DH: Pressure-impulse theory for liquid impact problems, 2A930
PEREGO, U: Symmetric Galerkin BEM in plasticity and gradient plasticity, 6A413
PEREGRINE, DH: Filling flows, cliff erosion, and cleaning flows, 9A293
- Internal flow properties of the swash zone and averaging, 12A239
PEREIRA, EMBR: Mixed-hybrid FEM based on orthogonal functions, 10A33
PEREIRA, JCF: Turbulence, Heat, and Mass Transfer - Proc from Int Center on Heat and Mass Transfer, Ankara, Turkey, 9N21
- Computation of turbulent evaporating sprays with well-specified measurements: A sensitivity study on droplet properties, 4A1187
- Characteristic-based pressure correction at all speeds, 7A591
PEREIRA, MS: Dynamics of flexible mechanical systems with contact-impact and plastic deformations, 4A104
- Impact dynamics of multibody systems with frictional contact using joint coordinates and canonical equations of motion, 7A249
PEREIRA, RMRJ: Iterative use of a time-marching code for designing turbomachine blade rows, 8A1030
PERELYGINA, IB: Analytical and experimental evaluation of the strain state of the combined structure of a flight vehicle lifting surface, 10T1195
PEREPELKIN, KE: Sorption properties and the influence of moisture on mechanical characteristics of thermostable threads based on aromatic polymers, 6A1192
PEREPYOLKIN, KY: Methods of continuous control of irregularities and surface defects in chemical threads and yarns, 6T592
PERES-DA-SILVA, SS: Computation of eigenvalues and eigenvectors of nonclassically damped systems, 2A125
PEREVEZENTSEV, VV: Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, 12A1333
PEREZ DE LA CRUZ, C: Data analysis and model comparison for solar array module plasma interactions experiment, 12A862
PEREZ, JP: Mecanique: Points Materials, Solides, Fluides - Avec 250 Exercices et Problemes Resolus (French), 1R42
PEREZ, P: Coupling of boundary integral and mixed FEMs, 12A52
PEREZ, R: Near-minimum time feedback controller for manipulators using on-line time scaling of trajectories, 12A456
PEREZ, RA: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
- Multi-variable control of an integrated propulsion and airframe system, 2A285
PEREZ-BLANCO, H: Computer-aided molecular design of fluids that optimize absorption cycle COP, 1A1287
- Roll waves in falling films: An approximate treatment of the velocity field, 8A892
- Study of absorption enhancement by wavy film flows, 8A1246
PEREZ-GARCIA, VM: Numerical simulation of nonlinear schrodinger systems: A new conservative scheme, 1A236
PEREZ-GONZALEZ , J: Influence of polymer conformation on the entrance length in capillary flow, 10A1053
PEREZ-MORENO, RA: Design of pulse width modulation controllers for stabilization and tracking in derived DC-to-DC power converters, 11T340
PEREZ-ROCHA, LE: Evaluation of interaction effects on the system period and the system damping due to foundation embedment and layer depth, 5A149
PEREZ-SEGARRA, CD: Thermal and fluid-dynamic behavior of double-pipe condensers and evaporators: A numerical study, 4A1218
PEREZ-TREJO, L: Influence of polymer conformation on the entrance length in capillary flow, 10A1053
PERGALANAI, F: Applications of statistical and GIS techniques to slope instability zonation (1:50.000 Fabriano geological map sheet), 8A541
PERIAUX, R: Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany, 6N3
PERIC, D: Implementation of a nonlinear four node shell FE for thin multilayered elastic shells, 1A630
- Explicit dynamic analysis of elasto-plastic laminated composite shells: Implementation of non-iterative stress update schemes for the Hoffman yield criterion, 1A160
- Finite elasticity in spatial description: Linearization aspects with 3D membrane applications, 3A427
- Remarks on the stability of enhanced strain elements in finite elasticity and elastoplasticity, 4A45
- Block conjugate gradient method applied to linear systems with multiple right-hand sides, 4A80
- New criterion for determination of initial loading parameter in arc-length methods, 4A587
- Effect of pore fluid compressibility on localization in elastic-plastic porous solids under undrained conditions, 8A434
- Consistent linearization for the exact stress update of Prandtl-Reuss non-hardening elastoplastic models, 9A518
- Computational framework for a class of fully coupled models for elastoplastic damage of finite strains with reference to the linearization aspects, 12A742
PERIC, M: Computational Methods for Fluid Dynamics, 11R39
PERIC, P: Spinning of fine yarns from sliver, 6T585
PERICAK-SPECTOR, KA: Representation theorem for linear, isotropic tensor functions, 1T452
PERICLEOUS, K: Natural extension of the conventional finite volume method into polygonal unstructured meshed for CFD application, 7A30
PERICLEOUS, KA: Numerical modeling of DC electromagnetic pump and brake flow, 4A1103
- Domain decomposition algorithm for viscous-invisicd coupling, 12A1055
PERICLEOUS, MI: Resilient modules of cement-stabilized phosphogypsum, 7A549
PERKASH, I: Modeling and simulation of paraplegic ambulation in a reciprocating gait orthosis, 5A1370
PERKIN ELMER THERMAL ANAL NEWSLETTER, (REPRINT): Fast mechanical characterization of an epoxy composite, 7T1042
PERKINS JR, SC: Review of forebody-induced wing rock, 9A1222
PERKINS, DM: Monte Carlo simulation of peak-acceleration attenuation using a finite-fault uniform-patch model including isochrone and extremal characteristics, 11A1375
PERKINS, NC: Contact-induced nonlinearity in oscillating belts and webs, 3A128
- Experimental investigation of isolated and simultaneous internal resonances in suspended cables, 5A128
PERKINS, SP: Stream-aquifer interaction model with diffusive wave routing, 9T1055
PERKINS, SW: Mechanical and load-settlement characteristics of two lunar soil simulants, 6A224
PERKTOLD, K: Computer simulation of convective diffusion processes in large arteries, 6A1341
PERLIN, M: Boundary conditions in the vicinity of the contact line at a vertically oscillating upright plate: An experimental investigation, 1A995
PERLOV, BM: Dynamic analysis of flexible communications in systems for in-flight aircraft fueling, 6A126
PERNG, HC: Study on thermal strain using subscale specimens, 6A1177
PEROT, B: Shear-free turbulent boundary layers - Part 2: New concepts for Reynolds stress transport equation modeling of inhomogeneous flows, 1A1080
- Shear-free turbulent boundary layers - Part 1: Physical insights into near-wall turbulence, 1A1079
PEROTIN, L: Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, 1T991
PEROTTI, F: Numerical analysis and design implications of the seismic behavior of one-story steel bracing systems, 6A1282
- Formation of viscous damping matrices for the dynamic analysis of MDOF systems, 12A207
PEROV, YY: Express method for determination of polymer composite porosity (Russian), 8A464
PERRAM, DL: Destruction of organic compounds in water using supported photocatalysts, 11A1449
PERREAULT, L: Simulation and computer-aided kinematic design of three-dof spherical parallel manipulators, 4A859
PERRELL, ER: Numerical simulation of nonequilibrium condensation in a hypersonic wind tunnel, 10A1279
PERREUX, D: Damaged elastoplastic behavior of $[+\gamma, -\gamma]_n$ fiber-reinforced composite laminates in biaxial loading, 2A645
PERRIN, G: Self-healing slip pulse on a frictional surface, 1A1402
- Improved Gurson-type model for hardenable ductile metals, 1A502
- Tensile tunnel-crack with a slightly wavy front, 9A833
PERRIN, R: Tuning of church and carillon bells, 2A225
PERRON, E: Introductory analysis of boundary-layer development on de-anti-icing fluid, 7A1170
PERRY , AE: Wall-wake model for the turbulence structure of boundary layers - Part 2: Further experimental support, 2A985
PERRY III, B: Matched-filter and stochastic-simulation-based methods of gust loads prediction, 2A198
PERRY JR, KE: Stress redistribution around mechanical attachments in ceramic matrix composites, 1A546
- Measurement of energy release rates for delaminations in composite materials, 10A797
PERRY, AE: Wall-wake model for the turbulence structure of boundary layers - Part 1: Extension of the attached eddy hypothesis, 2A940
- Experimental study of round jets in cross-flow, 7A1113
- Experimental and theoretical study of the turbulent coflowing jet, 8A970
PERRY, J: Effect of five prosthetic feet on the gait and loading of the sound limb in dysvascular below-knee amputees, 6A1373
PERRY, JE: Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, 12A1489
PERRY, ND: Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, 2A689
PERRY, SD: Influence of lateral destabilization on compensatory stepping responses, 6A1326
PERSHUKOV, VA: Mathematical model of transfer of momentum and heat in disperse turbulent jet flows, 5A1164
PERTHAME, B: Nonlinear Boltzmann equation solutions and applications to fluid dynamics, 2A915
PERUN, ML: Experimental model investigation of the opening of a collapsed untethered pulmonary airway, 5A1375
PERYEA, MA: Reduction of tiltrotor download, 1A1136
PESCE, J-J: Anomalies in the normal force measurement when using a force rebalance transducer, 11A861
PESCH, HJ: Minimizing the maximum heating of a re-entering space shuttle: An optimal control problem with multiple control constraints, 8T316
PESCH, W: Convection instabilities in nematic liquid crystals, 2A843
PESCHKE, WOT: Approach to in situ analysis of scramjet combustor behavior, 2A1197
PESCI, AI: Dynamic bifurcation in Hamiltonian systems with 1 dof, 1A95
PESHKAM, V: Note on finite strip buckling analysis of composite plate structures, 9A627
PESSEL, W: Analysis of relationships between plasma nitriding time, thickness of the cases produced, and fatigue strength of steels (Polish), 9T747
PESSIKI, SP: Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, 11A1404
PESTEREV, AV: Vibrations of a system with an eigenfrequency identical to that of one of its subsystems, 5A103
PESZYNSKA, M: Finite element approximation of diffusion equations with convolution terms, 12A1353
PETARCA, L: Ignition and combustion of single, levitated char particles, 3A1205
PETER, U: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429
PETERS, AAF: Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, 1A1335
PETERS, CF: Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II, 6N7
PETERS, DA: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11
PETERS, F: Measurement and interpretation of growth of monodispersed water droplets suspended in pure vapor, 2A1113
PETERS, GWM: Viscoelastic flow past a confined cylinder of a polyisobutylene solution, 4A912
PETERS, JE: Multidimensional, nonhomogeneous, dense spray contributions to diffraction-based particle size distribution measurements, 5A1113
PETERS, JF: Ill-Posedness of the initial and boundary value problems in non-associative plasticity, 8A418
PETERS, JM: Nonlinear and postbuckling responses of curved composite panels with cutouts, 9A614
- Reduction technique for tire contact problems, 11A787
- Nonlinear and postbuckling analyses of curved composite panels subjected to combined temperature change and edge shear, 12A625
PETERS, MA: Connections between minimum entropy control and mixed H_2/H_∞ control for time-varying systems, 5T324
PETERS, P: Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, 1A816
- Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, 1A815
PETERS, PWM: Fiber-matrix bond strength of CFRP deduced from the strength transverse to the fibers, 5A645
PETERS, SM: Comparison of life theories for rolling-element bearings, 8A810
- Comparison of life theories for rolling-element bearings, 8T811
PETERSEN, IR: Method for robust stabilization related to the Popov stability criterion, 3T317
- Uncertainty-averaging approach to output feedback optimal guaranteed cost control of uncertain systems, 7T384
- Robust observability for a class of time-varying discrete-time uncertain systems, 12T319
PETERSEN, JL: Adaptation of centers of approximation for nonlinear tracking control, 8T305
PETERSEN, PM: Waste-heat recovery in batch processes using heat storage, 1A1436
PETERSEN, SB: Review of research into the injection forging of tubular materials, 3A606
- Animation of FE models of metal forming processes, 5A561

PETERSEN, U: Jet mixing in a model direct injection diesel engine with swirl, 8A971
PETERSON JR, JE: Beyond ray tomography: Wavepaths and Fresnel volumes, 3A1285
PETERSON, CW: Fluid dynamics of parachute inflation, 6A205
PETERSON, GP: Thermodynamic analysis of the influence of electric fields on frost formation, 1T1155
- Investigation of a heat pipe array for convective cooling, 3A1155
- Fabrication of vapor-deposited micro heat pipe arrays as an integral part of semiconductor devices, 5T349
- Experimental investigation of countercurrent liquid-vapor interactions and their effect on the friction factor, 6T944
- Forced convection heat transfer of single-phase binary mixtures through microchannels, 6T1070
- Flow boiling of binary mixtures in microchannel plates, 7A1234
- Convective heat transfer and flow friction for water flow in microchannel structures, 11A1108
PETERSON, JE: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Terrestrial solar-pumped iodine gas laser with minimum threshold concentration requirements, 6A1298
- Feasibility of an iodine gas laser pumped by concentrated terrestrial solar radiation, 11T1427
PETERSON, LD: Consistent model reduction of experimental modal parameters for reduced-order control, 1T374
- Bounding the transient response of structures to uncertain disturbances, 11A766
PETERSON, M: Simple scheme for self-focusing of an array, 9A868
PETERSON, MB: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748
PETERSON, RB: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2, 3N33
PETERSON, TE: Protein kinases as mediators of fluid shear stress stimulated signal transduction in endothelial cells: A hypothesis for calcium-dependent and calcium-independent events activated by flow, 5A1390
- Non-optimal behavior of FEMs for first order hyperbolic problems, 9A20
- Continuous space-time FEM for the wave equation, 9A52
PETERSSON, NA: Fast iterative method to compute the flow around a submerged body, 12A252
PETEVES, SD: Fracture toughness calibration of the Si_3N_4-Fe joint system: A parametric study, 10A810
PETINOV, SV: Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, 3A723
PETIT, C: Incremental formulation for the linear analysis of thin viscoelastic structures using generalized variables, 2A387
PETKOVSKI, M: Energy absorbing elements in regular and composite steel frame structures, 1A1395
PETRAKIS, E: Small-strain response of random arrays of spheres using discrete element method, 8A529
PETRAKIS, MA: Steady flow in a curved pipe with a coaxial core, 12A1123
PETRIE, HL: Laminar flow performance of a heated body in particle-laden water, 3A928
PETRIK, PT: Film boiling heat transfer of the refrigerant R-12 in a granular medium bed, 2T1110
PETRINEC JR, JJ: Developments in Pressure Vessels and Piping - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N26
PETRIZ, F: Adaptive two-step methods for semidiscretized wave equations, 4A54
PETRO, SH: Assessment of defects and mechanical properties of wood members using ultrasonic frequency analysis, 7A888
PETROLITO, J: Unified nonlinear elastic frame analysis, 11A815
- Triangular thick plate elements based on a hybrid-Trefftz approach, 12A606
PETROLL, WM: Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, 11A1461
PETRONIJEVIC, Z: Modeling of chamber mufflers by four-pole electrical ducts, 8A254
PETROSENKO, RD: Development of a home ankle exerciser, 11A1473
PETROV, AG: Problem of interface heat exchange between a gas bubble and a liquid, 1A1245
PETROV, AS: Total body drag in a viscous heat conducting gas flow, 10A1089
PETROV, AV: High-camber wing flow with tangential jet blowing, 10T1142
PETROV, IL: Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, 7A409
PETROV, JV: Experimental methods of simulating parameters of elastically attached loads when testing dynamically similar model of airplane, 8A764
PETROV, YV: Simulating and investigating effect of pylon-mounted power plant parameters on aeroelastic oscillations of airplane wing, 6A166
- Use of fuel inertia for airplane vibration damping, 11A101
PETROVA, IM: Modern methods for hardening machine parts, 5T679
PETROVA, LN: Comparison of mechanical energy expenditure of joint moments and muscle forces during human locomotion, 8A1420
PETROVSKII, AP: Effect of damping forces on the postcritical behavior of substantially nonpotential systems, 5A81
PETROVSKY, AV: Secondary bifurcations and global instability of an aeroelastic nonlinear system in the divergence domain, 10A319
PETRTYL, M: Spatial organization of the haversian bone in man, 6A1335
PETRUCCI, G: Towards RGB photoelasticity: Full-field automated photoelasticity in white light, 2A693
- Determination of nonuniform residual stresses using the ring-core method, 10A555
PETRUSHENKOV, IL: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
PETRUSMA, MS: Bluff body wakes with free, fixed, and discontinuous separation at low Reynolds numbers and low aspect ratio, 7A1105
PETRYK, H: Post-critical plastic deformation of biaxially stretched sheets, 5A436
PETSOPOULOS, T: Moving-mass roll control system for fixed-trim re-entry vehicle, 7A402
PETTI, L: Reduction factors for base isolated structures, 12A1409
PETTIGREW, MF: Theoretical analysis of an airbag crash sensor, 5A339
PETTIGREW, MJ: Flow-Induced Vibration - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N10
PETTINELLI, C: Analysis of laminar near-wake hypersonic flows, 5A897
PETTINI, M: Riemannian description of chaotic instability in Hamiltonian dynamics, 5A2
PETTIT, NBOL: Analysis of Piecewise Linear Dynamical Systems, 5N12
PETTY, SW: Prototypic magnetohydrodynamic anode designs and test results, 4A1100
PETZING, JN: Improved interferometric techniques for measuring flextensional transducer vibration patterns underwater, 12A316
PETZOLD, LR: Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations - Classics in Applied Mathematics, Vol 14, 6R2
- DASPK: A new high order and adaptive time-intergration technique with applications to mantle convection with strongly temperature-and pressure-dependent rheology, 3A1287
PEURRUNG, L: Experimental analysis of pore-scale flow and transport in porous media, 8A1325
PEYRE, P: Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A769
PEYRET, R: Spectral multidomain technique for the computation of the Czochralski melt configuration, 6A1103
PEYTOUR, C: Fretting wear of mechanically alloyed Al-Fe and Al-Fe-Mn alloys, 11A648
PEZARD, PA: Surface electrical properties to spontaneous potentials in porous media, 11A1332
PEZERAT, C: Localization of forces applied on thin structures: Regularization of inverse problem, 11A506
PEZESHK, S: Explicit time-integration method for damped structural systems, 8A161
PEZZA, L: Constant flow rate problem for fluids with increasing yield stress in a pipe, 5A863
PEZZINGA, G: Unsteady flow in installations with polymeric additional pipe, 3T878
PEZZOTTI, G: Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, 8A655
PFEFFER, T: Stress interaction between multiple crevasses in glacier ice, 11A1445
PFEIFFER, F: Principle of virtual work in mechanical and electromechanical systems, 1A418
- Optimization of a leg design, 2A822
- Surface polishing with flexible link manipulators, 8A364
- Complementarity problems of stick-slip vibrations, 10A133
- Dynamics of multibody systems containing dependent unilateral constraints with friction, 10A960
PFEIFLE, TW: Experimental determination of probability distributions for parameters of a salem limestone cap plasticity model, 1A709
PFENDLER, P: Strain rate and preshear effects in cyclic resistance of soft clay, 6A528
PFISTER, F: Dynamical formalism for unrooted systems of rigid bodies, 3A77
PFLASTER, D: Poroelastic FE formulation including transport and swelling in soft tissue structures, 9A1443
PHAAL, R: TWI biaxial test program: 1984-1994, 1T500
PHAM, DT: Synergistic neural models of a robot sensor for part orientation detection, 7A452
- Gravity compensation technique for an n-legged robot, 8A361
- Optimal control of an n-legged robot, 9A451
- Variational approach to the optimization of gait for a bipedal robot, 11A378
PHAM, H: Energy balance of thermoelastic martensite transformation under stress, 11A1243
PHAM, HOANG: Forced harmonic response of a continuous system displaying eigenvalue veering phenomena, 5A100
PHAM, TD: Fuzzy logic applied to numerical modeling of engineering problems, 2A55
PHAM, VT: Ablation analysis of the shuttle orbiter oxidation protected reinforced carbon-carbon, 1A1124
PHAN, MQ: Designs of learning controllers based on autoregressive representation of a linear system, 8A271
PHAN-THIEN, N: Traction-based completed adjoint double layer BEM in elasticity, 1A474
- Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, 2A958
- Stability of some shear flows for concentrated suspensions, 9A1042
- Extrudate swell through an orifice die, 9A1045
- Torsional flow: Elastic instability in a finite domain, 10A1168
- Entrance length and pulsatile flows of a model concentrated suspension, 12A1004
- Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, 12A1046
PHANINDRANATH, V: Theoretical model for prediction of groove geometry on laser dressed grinding wheel surface, 3A631
PHANIRAJU, H: Nonlinear vibrations of cross-ply plates, 2A105
PHARR, GM: Influences of stress on the measurement of mechanical properties using nanoindentation - Part I: Experimental studies in an aluminium alloy, 8A692
- Influence of stress on the measurement of mechanical properties using nanoindentation - Part II: FE Simulations, 8A697
PHASKARA RAO, PV: Whole-body vibration exposure in Indian buses, 3A1409
PHATAK, MS: Gain optimization under control structure and stability region constraints, 10A412
PHELAN JR, FR: Analysis of transverse flow in aligned fibrous porous media, 4A960
PHELAN, PE: Thermal response of thin-film high-T_c superconductors to modulated irradiation, 1A1273
PHELPS, AD: High-resolution bubble sizing through detection of the subharmonic response with a two-frequency excitation technique, 9A1130
PHILBRICK JR, TW: Fatigue assessment of through plate girder railway bridges, 3A655
PHILIP, D: Self-propulsion of spermatozoa in microcontinua: Effect of transverse wave motion of channel walls, 5A1391
PHILIP, D: Flow of Eringen fluid (simple microfluid) through an artery with mild stenosis, 5A1387
PHILIP, J: Numerical technique for bond correction in ultrasonic measurements, 10A861
PHILIP, JR: One-dimensional checkerboards and blending heights, 11T1418
PHILIPPE, C: Numerical study of mixed convection around a sphere rotating about its vertical axis in a Newtonian fluid at rest and subject to a heat flux, 8A1098
PHILLIPS, AT: Versatile fluid-mixing device for cell and tissue microgravity research applications, 7A306
PHILLIPS, CA: Walking when utilizing a sensory feedback system and an electrical muscle stimulation gait orthosis, 1A1449
PHILLIPS, CG: Time-dependent transport by convection and diffusion with exchange between two phases, 2A1161
PHILLIPS, JC: Entrainment into 2D and axisymmetric turbulent gravity currents, 8A874
PHILLIPS, JR: Quantitative visualization of a submerged pseudoplastic jet using particle image velocimetry, 5A953
- Direct simulations of turbulent unstratified natural convection in a vertical slot for Pr = 0.71, 11A1120
PHILLIPS, MR: Flight testing a general aviation head-up display, 7T1172
PHILLIPS, PJ: Piezoelectric effect in coherently strained B-doped (001)SiGe/Si heterostructures, 6T512
PHILLIPS, RJ: Dynamic simulation of hydrodynamically interacting spheres in a quiescent second-order fluid, 11A932
PHILLIPS, TN: Moving spectral element approach to the dynamically loaded journal bearing problem, 7A65
- Steady viscoelastic flow past a sphere using spectral elements, 10A551
PHILLIPS, WS: Single-station spectral discrimination using coda waves, 3A1280
PHILOBOS, MS: Buckling of thick orthotropic cylindrical shells under combined external pressure and axial compression, 3A553
PHILP, WR: Single pulse laser excitation of structural vibration using power densities below the surface ablation threshold, 2A689
PHILPOTT, ML: Simultaneous in-process inspection of surface form and roughness of machined sculptured surfaces, 5A572
- Error compensation strategy for replication by rapid prototyping, 5A382
PHINNEY, RA: Slant stacks of refraction data from Maine: Effects of lateral variations in velocity structure, 6A1232
PHOENIX, SL: Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, 2A424
- Measurement of stress concentration in a fiber adjacent to a fiber break in a model composite, 2A420
- Fiber interactions in the multi-fiber composite fragmentation test, 2A650
- Comparison of shear-lag theory and continuum fracture mechanics for modeling fiber and matrix stresses in an elastic cracked composite lamina, 11A673
PHOTIADIS, DM: Structural acoustics and active control of interior noise in a ribbed cylindrical shell, 12A298
PHROMVICHIT, C: Heat transfer characteristics in a small-scale fluidized bed boiler, 12A1344
PHUNG, THANH H: Stokesian dynamics simulation of Brownian suspensions, 11A930
PHUONG-NGUYEN, H: Slow calorimetry and heat of fusion of poly(4-methyl pentene-I), 11A1093
PHYSICK, WL: Atmospheric boundary layer - Advances in knowledge and application, 12A1420
PI, YONG-LIN: Prebuckling deformations and flexural-torsional buckling of arches, 1A648
- Plastic-collapse analysis of torsion, 2A744
- Three-dimensional nonlinear analysis of elastic arches, 5A733
PIACENTINI, A: Computational acoustics: Noise reduction via diffraction by barriers with different geometries, 12A303
PIAN, CCP: Prototypic magnetohydrodynamic anode designs and test results, 4A1100
- Wall surface leakage effects on magnetohydrodynamic power generator performance, 6A1008
- Magnetohydrodynamic generator design for a combined-cycle demonstration powerplant, 8A1000
PIAN, THH: State-of-the-art development of hybrid-mixed FEM, 5A7
PIASTA, WG: Concrete durability as the function of stress level in sulphate attack, 9A882
PIAU, J-M: Slip flow of polybutadiene through fluceinated dies, 1T715
- Thixotropic colloidal suspensions and flow curves with minimum: Identification of flow regimes and rheometric consequences, 12A1006
PIAU, JM: Flow of a yield stress fluid in a long domain: Application to flow on an inclined plane, 12A1049
PIAZZA, SJ: Influence of muscles on knee flexion during the swing phase of gait, 10A1471
PICARD, A: Strengthening of reinforced concrete beams with composite materials: Theoretical study, 4A804
- Relative efficiency of external prestressing, 6A758
PICCARDI, C: Bifurcation analysis via harmonic balance in periodic systems with feedback structure, 5T88
PICCIGALLO, B: Fast method for the numerical solution of thermal-elastohydrodynamic lubrication problems, 11A1079
PICCIRILLO, P: Multiple-source wind tunnel design for producing turbulent shear flows in a stably stratified fluid, 12A1043
PICCOLI, B: Time-optimal control problems for the swing and the ski, 5A334
PICCOLOMINI, EL: Method for solving the indirect approximation problem, 12A76
PICHE, R: L-stable Rosenbrock method for step-by-step time integration in structural dynamics, 4A228
PICHKOV, SN: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
PICHORA, DR: Finite element stress analysis of a hybrid fracture fixation plate, 10A1487
PICK, RJ: Behavior of longitudinally aligned corrosion pits, 8A594
- Strength of a hot tap reinforced Tee junction, 12A873
PICKARD, JM: Surface fouling in aviation fuels: An isothermal chemical study, 10A1375
PICKENHAIN, S: Second-order sufficient conditions for control problems with control-state constraints, 2T257
PICOLOGLOU, BF: Liquid-metal flow in an insulated rectangular expansion with a strong transverse magnetic field, 6A1005
PICON, R: Simplified numerical analysis of residual stresses in aluminum welded plates, 3A441
- One-dimensional model for the prediction of residual stress and its relief in welded plates, 9A517

PICQUEUR, L: High Pressure Technology - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 1N22
PICU, CR: Singularities of an interface crack impinging on a triple grain junction, 8A386
- Stress singularities at triple junctions with freely sliding grains, 8A445
- Stress singularities at vertices of conical inclusions with freely sliding interfaces, 11A427
PICU, RC: Crack nucleation in columnar ice due to elastic anisotropy and grain boundary sliding, 2A1278
- Observations of crack nucleation in columnar ice due to grain boundary sliding, 2A1280
- Singularities at grain triple junctions in 2D polycrystals with cubic and orthotropic grains, 12A490
PIDAPARTI, RMV: Neural network approach to fatigue-crack-growth predictions under aircraft spectrum loadings, 1A837
- Hierarchical bending analysis of cord-rubber composites, 4A496
- Fatigue crack propagation life analysis of solder joints under thermal cyclic loading, 7A776
- Role of eigenvectors in aeroelastic analysis, 12A266
- Micromechanical analysis to predict the cord-rubber composite properties, 12A575
- Bone mineral lies mainly outside collagen fibrils: Predictions of a composite model for osteonal bone, 12A1443
PIECHOR, K: Four-velocity model for van der Waals fluids, 9A1114
PIECZYSKA, E: Critical point of the elastoplastic transition in terms of thermomechanical coupling, 10A565
PIEDBOEUF, J-C: Jacobian matrix for a flexible manipulator, 2A338
PIEDRA-CUEVA, I: Drift velocity of spatially decaying waves in a two-layer viscous system, 2A173
PIEKARSKI, Z: Bellman's equation of optimization with the periodic control, 3A321
PIEKUTOWSKI, AJ: Scale model experiments with ceramic laminate targets, 5A197
- Penetration of confined aluminum nitride targets by tungsten long rods at 1.5-4.5 km/s, 9A285
PIELORZ, A: Dynamic analysis of a nonlinear discrete-continuous torsional system by means of wave method, 2A91
PIENKOWSKA, I: Friction relations for the many-sphere Oseen hydrodynamic interactions, 10A1120
PIEPER, JK: Linear quadratic optimal model-following control of a helicopter in hover, 11A290
PIERACCI, A: Parameter estimation for Weibull probability distribution function of initial fatigue quality, 2A580
- Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, 8A645
PIERCE, AD: Fundamental structural-acoustic idealizations for structures with fuzzy internals, 5A256
PIERCE, K: Prediction of wind turbine rotor loads using the Beddoes-Leishman model for dynamic stall, 3A999
PIERRE, C: Nonlinear normal modes, invariance, and modal dynamics approximations of nonlinear systems, 4A122
- Experimental investigation of vibration localization in disordered multi-span beams, 4A155
- Localization of vibration in disordered multi-span beams with damping, 4A159
PIERREHUMBERT, RT: Baroclinic instability, 2A973
PIERRON, F: 10° off-axis tensile test: A critical approach, 11A493
PIERSOL, AL: Procedures to compute maximum structural responses from predictions or measurements at selected points, 10A208
PIERSON, BL: Optimal low-thrust 3D earth-moon trajectories, 1T400
- Aircraft terrain following based on a nonlinear continuous predictive control approach, 1A1117
- Maximum-payload trajectories for a laser-propelled launch vehicle, 4A365
- Optimal aircraft terrain-following flight with nonlinear engine dynamics, 6T1021
- Dynamic boundary evaluation method for approximate optimal lunar trajectories, 12T349
PIERSON, JG: Art of Practical and Precise Strain Based Measurement, Revised Edition, 1R13
PIERSON, R: Hartmann wave front sensor studies of dynamic organized structure in flowfields, 4A1131
PIESSENS, R: Proceedings of the Sixth International Congress on Computational and Applied Mathematics, July 1994, Leuven, Belgium, 11A70
PIETASZEWSKI, J: Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, 9A725
- Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, 9A726
PIETRA, P: Mixed FE approximation of a degenerate elliptic problem, 1A29
PIETRABISSA, R: Fluid-structure interaction problems in bio-fluid mechanics: A numerical study of the motion of an isolated particle freely suspended in channel flow, 4A288
- Numerical fluid mechanical study of repaired congenital heart defects: Application to the total cavopulmonary connection, 6A1349
PIETRUCHA, J: Classical panel methods: A routine tool for aerodynamic calculations of complex aircraft configurations: From concepts to codes, 3A995
PIETRUSZCZAK, S: Numerical Models in Geomechanics - Proc of 5th Int Symp, NUMOG V, Davos, Switzerland, Sept 1995, 12N28
PIETRUSZCZAK, S: Mechanical response of saturated cemented materials - Part I: Theoretical considerations, 1A690
- Mechanical response of saturated cemented materials - Part II: Experimental investigation and numerical simulations, 1A691
- Mechanical behavior of concrete subjected to alkali-aggregate reaction, 5A710
- Constitutive relations for partially saturated soils containing gas inclusions, 6A523
- Undrained response of granular soil involving localized deformation, 6A521
PIETRZAK, J: Alternative approach to optimization of structures prone to instability, 11A716
PIETRZYK, M: Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, 12A674
PIGEON, M: Frost resistance of roller-compacted high-volume fly ash concrete, 3A521
PIGGOTT, MR: Shear strength of polymers and fiber composites - 1: Thermoplastic and thermoset polymers, 4A528
- Shear strength of polymers and fiber composites - 2: Carbon-epoxy pultrusions, 4A529
- New model for interface failure in fiber-reinforced polymers, 6A669
PIGNON, P: Thixotropic colloidal suspensions and flow curves with minimum: Identification of flow regimes and rheometric consequences, 12A1006
PIILA, J: Shell deformation states and the FEM: A benchmark study of cylindrical shells, 5A520
PIJAUDIER-CABOT, G: Arbitrary Lagrangian-Eulerian FE analysis of strain localization in transient problems, 5A8
- Progressive damage in discrete models and consequences on continuum modeling, 6A634
- Damage and localization in elastic materials with voids, 11A659
PIKE, CP: Optical radiations from interaction of effluent gases with the low-orbital atmosphere, 12A1306
PIKON, A: Application of structural numbers to generating the characteristics of mechanical systems, 2A830
PIKUL, VV: Physically correct models for material of elastic shells, 5A505
PILARCZYK, KW: Offshore Breakwaters and Shore Evolution Control, 12N42
PILATOWSKY, I: Mathematical simulation of a solar ejector-compression refrigeration system, 12A1431
PILBEAM, C: Performance potential and power consumption of slow-active suspension systems with preview, 8A332
PILECKI, S: Propagation of an effective shear stress as solitary wave and possibility of non-crystallographic slip in polycrystals, 1A517
- Investigations of internal friction and constants of elasticity of solids by the acoustic resonance method, 1A527
- Development of deformation process in carbon fiber reinforced plastics and metals on acoustic emission data, 1A586
PILGRIM, SM: Modeling of piezoresistively-controlled electromechanical smart material, 3A768
PILIPCHUK, V: Averaging of mechanical systems by means of non-smooth periodic functions, 1A124
PILIPCHUK, VN: Singular trajectories of nonlinear oscillatory systems, 6A107
- Analytical study of vibrating systems with strong nonlinearities by employing saw-tooth time transformations, 10A94
PILIPENKO, VV: Heat and mass transfer in superheated vapor jet condensation, 1A1242
PILKEY , WD: Optimal design of structures under impact loading, 6A719
PILKEY, WD: Shape design for thin-walled beam cross sections using rational B splines, 4A860
- Exact stiffness matrix for a beam element with axial force and shear deformation, 11A33
PILLAI, KM: Numerical and analytical study to estimate the effect of two length scales upon the permeability of a fibrous porous medium, 4A1296
PILLIAR, RM: Validation of a nonlinear 2D interface element for FE analysis, 10A13
PILLINGER, I: Proceedings of the 6th International Conference on Metal Forming, Akademia Gorniczo-Hutnicza, Krakow, Poland June 23-26, 1996, 12A674
PILON, AR: Data-parallel total variation diminishing method for sonic boom calculations, 7A279
PILTNER, R: Recent developments in the Trefftz method for FE and BE applications, 5A47
PINAMONTI, P: Velocity measurements downstream of the impellers in a multistage centrifugal blower, 5A1048
PINARBASI, A: Off-design flow measurements in a centrifugal compressor vaneless diffuser, 5A1047
- Three-dimensional flow measurements in conical and straight wall centrifugal compressor vaneless diffusers, 8A1028
- Detailed stress tensor measurements in a centrifugal compressor vaneless diffuser, 11A1050
PINCEMIN, F: Scattering of a scalar wave from a 2D randomly rough Neumann surface, 3A188
PINCZEWSKI, WV: Fluid distribution and pore-scale displacment mechanisms in drainage dominated three-phase flow, 4A1305
PINDERA, JT: Three-dimensional isodyne stress analysis: Present state, trends, theoretical problems, 3A424
PINDERA, M-J: Thermoelastic theory for the response of materials functionally graded in two directions, 6A1160
- Elastoplastic analysis of layered metal matrix composite cylinders - Part I: Theory, 7A592
- Elastoplastic analysis of layered metal matrix composite cylinders - Part II: Numerical results, 7A593
PINEAU, S: Seismic behavior of steel-fiber reinforced concrete interior beam-column joints, 3A782
PINELLI, JP: Testing of energy dissipating cladding connections, 7A1382
PINETTES, M-J: Analytical and experimental study of the oblique passing of a solitary wave over a shelf in a two-layer fluid, 1A226
PINGLOT, M: Influence of geometrical tolerances on reliabilty of columns (French), 7A654
PINHO DE CASTRO, JT: Fatigue crack growth rate prediction deparing from Coffin-Manson Concepts (Spanish), 7A786
PINHO, FT: Turbulent expansion flow of low molecular weight shear-thinning solutions, 5A965
PINI, R: Diagnostic set-up for time-resolved imaging of laser-induced ablation, 10T720
PINNICK, RG: Fluorescence particle counter for detecting airborne bacteria and other biological particles, 4A1286
PINNINGTON, RJ: Strategies for the active control of flexural vibration on a beam, 3A378
- Transient energy flow between two coupled beams, 7A128
- Transient statistical energy analysis of an impulsively excited two oscillator system, 7A129
- Axisymmetric vibrational power measurement in empty and fluid-filled pipes, 11A210
PINSKY, M: Model of a homogeneous isotropic turbulent flow and its application for the simulation of cloud drop tracks, 8T978
PINSKY, MA: Resonance control of aircraft instabilities by smooth and continuous feedback, 4T378
PINSKY, PM: Space-time FEM for the exterior structural acoustics problem: Time-dependent radiation boundary conditions in two space dimensions, 10A381
- Space-time FEM for the exterior acoustics problem, 12A311
- Design of Galerkin generalized least squares methods for Timoshenko beams, 12A143
PINTAR, FA: Human head-neck biomechanics under axial tension, 11A1454
PINTO, G: Normal mode stability analysis of multiblock algorithms for the solution of fluid-dynamics equations, 8A910
PINTUS, S: Ignition and combustion of single, levitated char particles, 3A1205
PINZON, JE: Multifractal analysis of lidar measured water vapor, 8T88
PIOMELLI, U: Two-layer approximate boundary conditions for large-eddy simulations, 11A997
PIOTROWSKA, A: Interfacial reactions between thin films of zinc and (100) InP, 6A821
PIOTROWSKI, A: Numerical prediction of temperature and moisture of air in longwalls (Polish), 9A1408
PIPELZADEH, MK: Elastic-plastic FE analysis of short flat bars with projections - Part 1: Shear loading, 6A407
- Elastic-plastic FE analysis of short flat bars with projections - Part I2 Axial loading, 6A408
- Assessment of the notch stress-strain conversion rules for short flat bars with projections subjected to axial and shear loading, 8A591
PIPERNO, S: Analysis and compensation of numerical damping in a 1D aeroelastic problem, 11T227
PIPES, RB: Strength size effect of laminated composites, 3A501
- Probabilistic analysis of multi-step failure process of a laminated composite in bending, 7A918
PIPKIN, AC: Bending energy of highly-elastic membranes - II, 11A508
PIPPAN, R: Plastic deformation of fracture surface contacts in fatigue, 7A823
PIPPEL, E: Interfaces in composite materials, 9A548
PIQUERO, T: ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, 9A530
PIRARD, N: Part-load operation of combined cycle plants with and without supplementary firing, 5A1038
PIRBAZARI, M: Modeling of Bioactive Carbon Adsorbers: A hybrid weighted residual-finite difference numerical technique, 9A92
PIRES, C: Extending the limits of variational assimilation in nonlinear chaotic systems, 8T82
PIRES, JA: Seismic reliability of electrical power transmission systems, 9A1388
- Stochastic seismic response analysis of soft soil sites, 9A1391
PIRES, LFG: Hidrodynamics in tubes with curvilinear obstructions (Spanish), 3A950
PIRKER, K: Technology demonstration nozzle for Mach 7 turboramjets, 5A1292
PIRO, O: Chaotic advection in 3D unsteady incompressible laminar flow, 12A110
PIRUMOV, UG: Advanced methods for producing ultradispersed particles in high-speed flows, 12A1187
PIRZADEH, S: Three-dimensional unstructured viscous grids by the advancing-layers method, 6A37
PIS'MENNYY, YN: Local heat transfer in bundles of transversely finned tubes, 1A1168
PIS, JJ: Characterizing fuels for atmospheric fluidized bed combustion, 1A1332
PISANI, MA: Numerical model for externally prestressed beams, 8A752
- Numerical method to analyze compact cross-sections, 10A528
PISANO, AP: Modeling of a finger-follower cam system with verification in contact forces, 8A803
PISANOVA, EV: Two approaches to interfacial shear strength calculation based on the single fiber composite test (Russian), 2A429
PISAREK, JT: Displacement field gradient measurement using the speckle photography method, 10A854
PISARENKO, VF: Statistical estimation of seismic hazard parameters: Maximum possible magnitude and related parameters, 12A1387
PISKUN, VV: Thermoelastoplastic state of discretely nonhomogeneous bodies of revolution with regard for nonlinearity of the shift characteristic of orthotropic of material (Russian), 7A513
PISKUNOV, VG: Model of the layered plate with nonideal contact of the layers (Russian), 7A568
- Calculation of laminar orthotropic plates in spatial statement, 7A625
PISTELLA, F: Application of a mechanical filter to an artificial heart, 11A1477
PISTER, KSJ: Surface-micromachined components for articulated microrobots, 11A361
PISTNER, CA: Effects of start-up transient loads on shoe bearings for large hydraulic pump-turbines, 6A1025
PISTORIUS, PGH: Thermal fatigue of steel tires on urban railway systems, 4A1232
PISZCZEK, KA: Dynamic identification of a tall building model, 3A152
- Dynamic identification of a tall building model, 9A952
PITA, JA: Finite-difference depth migration of exploration-scale 3D seismic data, 11A1371
PITARRESI, JM: Solder joint reliability prediction by the integrated matrix creep method, 12A987
PITCHUMANI, R: Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, 8A1106
PITEI, DL: Time-dependent behavior of a force-sensitive resistor plantar pressure measurement insole, 12A1481
PITKARANTA, J: Shell deformation states and the FEM: A benchmark study of cylindrical shells, 5A520
PITMAN, EB: Visco-plastic relaxation: Convergence and localization, 4A467
- Traveling waves in a relaxation system, 12A482
PITT , S: Developments in the analysis of interacting cracks, 6A9
PITT, AM: Reliable automatic detection of long-period volcanic earthquakes at Long Valley Caldera, California, 3A1278
PITTERI, M: Microstructure and phase transitions in solids, 4T513
PITTS, JR: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
PITTS, WM: Global equivalence ratio concept and the formation mechanisms of carbon monoxide in enclosure fires, 4A1253
PITZ, WJ: Methanol and hydrogen oxidation kinetics in water at supercritical states, 12A1308
PIVA, S: Combined convection and wall conduction effects in laminar pipe flow: Numerical predictions and experimental validation under uniform wall heating, 3A1055
PIVNEV, VP: Power-dynamic analysis of a wind-wheel unit with a variable inertia flywheel, 6A1299
PIVNYAK, G: Modeling of coal mines energy-consuming technological processes, 9A470
PIVOVAROV, ML: Regular and chaotic motions in applied dynamics of a rigid body, 12A120
PLA, O: Modeling fracture driven by a thermal gradient, 11A1249
PLACKO, D: Active shielding of eddy current sensors: A method to focus the magnetic field in order to improve lateral resolution and coupling coefficient, 2A700
PLAETSCHKE, E: X-31A system identification using single-surface excitation at high angles of attack, 11A1032

PLANELL, JA: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
PLANK, RJ: Lateral-torsional buckling of unrestrained steel beam in fire, 7A954
- Treatment of strain reversal in structural members during the cooling phase of a fire, 10A899
PLASCHKO, P: Heteroclinic bifurcations in flow-induced oscillations of cylinders, 8A86
PLASTININ, AV: Dynamic compressive strength of epoxy based composites (Russian), 8A466
PLATTEN, JK: Numerical simulations of interface viscosity effects on thermoconvective motion in 2D rectangular boxes, 1A1191
- Laminar thermal convection in a vertical slot, 3A1039
- Effect of the separation ratio on the transition between traveling waves and steady convection in the two-component Rayleigh-Benard problem, 10A1073
PLATZER, D: Dynamics of human flight on skis: Improvements in safety and fairness in ski jumping, 12A1494
PLATZER, MF: High-angle-of-attack wind-tunnel investigation of a multimission vehicle, 1T1108
- Effect of canard oscillations on an X-31A: Like model in pitching maneuver, 2T1012
- Thrust generation due to airfoil flapping, 7A1167
- Time-domain analysis of low-speed airfoil flutter, 10A314
- Numerical investigation of stall flutter, 11A1034
- Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, 12A1169
PLAUSINIS, D: Application of a new constant G load-jig to creep crack growth in adhesive joints, 7A842
PLAUT, RH: Curve and surface veering for a braced column, 4T149
- Fractal behavior of an asymmetric rigid block overturning due to harmonic motion of a tilted foundation, 9A156
- Transient motion and overturning of a rocking block on a seesawing foundation, 9T684
- Elastic response of columns after sudden loss of bracing, 10A624
- Flutter of geometrically-imperfect shear-deformable laminated flat panels using nonlinear aerodynamics, 10A313
PLAXTON, S: Optimization of structure and material properties for solids composed of softening material, 9A891
PLAY, D: Morphological study of vibration signals: Identification of spur and helical gear faults (French), 11A658
PLAZA, JA: New process for releasing micromechanical structures in surface micromachining, 10T468
- Surface micromachining technology applied to the fabrication of a FET pressure sensor, 10A471
PLAZEK, DJ: Rubbery cure shrinkage model for analyzing encapsulated assemblies, 3A449
PLEASE, CP: Crack propagation models for rock fracture in a geothermal energy reservoir, 4A625
- Asymptotics of slow flow of very small exponent power-law shear-thinning fluids in a wedge, 5A887
PLEBANI, LJ: Characterization of grinding-induced cracks in ceramics, 2A549
PLESNIAK, MW: Effects of turbulence and unsteadiness on vortex shedding from sharp-edged bluff bodies, 9A1161
PLETNER, B: Adaptive suspension of vehicles using piezoelectric sensors, 7A394
PLIAKAS, P: Single-axial groove journal bearings: Static characteristics and temperature prediction technique, 7T1011
PLINE, A: Thermocapillary convection experiment in microgravity, 3A1046
- Oscillatory convection due to combined buoyancy and thermocapillarity, 6A1086
PLISKIN, N: Integrative model for automatic warehousing systems, 12A476
PLIZZARI, G: Centrifuge modeling and analysis of concrete gravity dams, 2A779
PLOCHL, M: Additional 4WS and driver interaction, 1A406
PLOEN, SR: Lie group formulation of robot dynamics, 4A399
PLOHBERGER, DC: Advanced gas engine cogeneration technology for special applications, 5A1267
PLOHR, BJ: Model for rate-dependent plasticity, 1A491
PLONECKI, L: Analysis of working possibilities of a power shovel, 9A166
PLONKA, Z: Bioactive chemical fibers, 6T1351
PLOTKIN, EI: Active acoustic noise cancellation with audio signal enhancement based on an almost-symmetrical time-varying autoregressive-moving average model, 12A291
PLOTKOWSKI, K: Positron annihilation study of the ageing effects in the Cu-Zn-Sn parent phase, 1A1297
PLOURDE, F: Space correlation measurements in a forced shear layer with wall injection, 12A1099
PLUEDDEMANN, AJ: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
PLUMB, OA: Experimental study of boiling on a wicked surface, 5A1178
PLUMLEY, RE: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
PLUMMER, AR: Discrete-time system identification for electrohydraulic servo systems, 2A242
- Robust adaptive control for hydraulic servosystems, 12A337
PLUMTREE, A: Mean stress effects in multiaxial fatigue, 1A764
- Microstructural effects on the small fatigue crack behavior of an aluminum alloy plate, 1A765
PLUVINAGE, G: Use of notch stress intensity factor as a fatigue crack initiation parameter, 2A564
PLUYETTE, E: Evaluation of residual stresses in stainless-steel claddings, 2A378
PLYS, MG: Temperature rise at the surface of a liquid layer subject to a concentrated heat source placed above the layer, 11A1119
POCESKI, A: Finite elements based on differential equations, 11A21
POCHTMAN, YM: Multi-criterion optimization of strengthened hybrid composite panels (Russian), 1A873
- Selection of an optimization model in optimal design of ribbed cylindrical shells, 6T724
- Study of the effect of corrosive media on the long-term stability of reinforced plates, 7A674
PODALKOV, VV: Nutation of a solid in a noncontact suspension, 5A85
PODILCHUCK, YN: Stressed state of transversally-isotropic body with a parabolic crack under uniform heat flow on its surface, 9A806
PODILCHUK, YN: Stressed state of transversally isotropic medium with a parabolic crack, linearly changing pressure being applied to its surface, 7A816
- Stressed state of transversally isotropic medium with parabolic crack under linearly changing shift load (Russian), 7A817
- Thermal stresses in the infinite transversally-isotropic medium with inner elliptical crack, 7A1287
- Stressed state of transversally-isotropic body with elliptical crack under uniform heat flow on its surface (Russian), 7A818
- Stressed state of a transversally-isotropic body with internal elliptical crack under linearly-changing shift load on the crack surfaces, 9A805
PODIO-GUIDUGLI, P: Mohr's Arbelos, 2T356
- Configurational forces and the basic laws for crack propagation, 12A765
PODKORYTOV, DG: Natural circulation in circular channels, 1A1234
PODLESKI, SD: Installed F/A-18A inlet flow calculations: A grid study, 4A1044
- Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, 11A967
- Comparison of F/A-18A inlet flow analyses with flight data: Part 1, 11A966
PODSZUS, WW: Mechanics of ventricular torsion, 10A1478
PODYMOVA, NB: NDE of fatigue changes of composite structure by laser ultrasonic method (Russian), 1A854
POENSGEN, CA: Rotating stall in a single-stage axial flow compressor, 11A1057
POGGI, C: Probabilistic imperfection sensitivity analysis of axially compressed composite cylinders, 2A445
POGGIALINI, A: Monitoring of biaxial tests of ceramic materials by digital speckle interferometry, 2A709
POGODAEV, LI: Fatigue-energy model of exhaust valve erosion, 6A879
- Analysis of the reliability of internal combustion engine exhaust valves, 9A1027
- Fundamentals of the service life design of diesel exhaust valves, 12A985
POGORELOV, NV: Shock-capturing approach and nonevolutionary solutions in magnetohydrodynamics, 11A1009
POGORZELSKI, SJ: Statistical aspects of acoustic returns from a wind-driven water surface covered with organic films, 1A310
POGOSOV, GA: Information support for system of avoiding critical modes of surface effect vehicle motion, 8A312
POH, S: Control of the natural frequencies of NITINOL-reinforced composite beams, 1A882
- Optimal vibration control with modal positive position feedback, 11A331
POH, SOON-PING: Performance of strengthened concrete deep beams predamaged in shear, 9A921
POHL, B: Implementation of a Generalized Cross Validation algorithm using deflation techniques for linear systems, 6A58
- Resarted GMRES preconditioned by deflation, 12A85
POHLE, U: Numerical integration of constrained mechanical systems using MEXX, 3A105
POINSOT, T: Effects of mean flow on premixed flame ignition, 3A1202
- Asymptotic and numerical study of diffusion flames with variable Lewis number and finite rate chemistry, 7A1339
- Applications of direct numerical simulation to premixed turbulent combustion, 11A1276
- Vortex model to define safe aircraft separation distances, 11A1024
POINT, N: Delamination model for laminated composites, 4A690
POIRIER, D: Dynamic analysis of a thrust bearing-effect of misalignment and load, 1T1145
POIRIER, DR: Numerical anomalies in simulating directional solidification of binary alloys, 11A1255
POISSON, R: Space correlation measurements in a forced shear layer with wall injection, 12A1099
POJE, AC: Enslaved finite difference schemes for nonlinear dissipative PDEs, 5A39
POKROVSKII, A: Collapsing effects in numerical simulation of a class of chaotic dynamical systems and random mappings with a single attracting center, 2A74
- Robustness of dynamical systems to a class of non-smooth perturbations, 4T112
POKROVSKY, VV: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417
POLACEK, DC: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
POLAHA, JJ: Effects of mode ratio, ply orientation, and precracking on the delamination toughness of a laminated composite, 8A645
POLAK, A: Optimal shock wave parameters for supersonic inlets, 6A966
POLAK, E: Consistent approximations for optimal control problems based on Runge-Kutta integration, 12T347
POLDNEFF, MJ: Design sensitivity analysis in dynamic thermovisco-elasticity with implicit integration, 4A443
POLEDNIK, R: Adaptation of a beta radiation scattering method to the investigation of the flocculation process, 9A1041
POLEZHAEV, VI: Thermal convection in anisotropic porous insulation, 10A1271
POLEZHAEVA, EA: Method for estimating the fatigue longevity of a material subjected to a nonstationary external influence based on the use of the cycle diagram depending on a change in the loading levels, 3A723
POLIASHENKO, M: Direct method for computation of simple bifurcations, 2T75
POLIGNONE, DA: Solutions of an infinite compressible nonlinearly elastic body under a line load, 11A417
POLIJANIUK, A: Surface microgeometry sensitiveness to cyclic load's process (Polish), 6A827
POLING, DR: Formation and internal structure of coherent vortices in the wake of a pitching airfoil, 8A1020
POLITANO, H: Sparse-mode spectral method for the simulation of turbulent flows, 6A46
POLITES, ME: Rotating unbalanced-mass devices for scanning: Proof-of-concept test results, 1T276
POLITIS, ES: Segregated implicit solution algorithm for 2D and 3D laminar incompressible flows, 4A981
POLITIS, GK: Boundary integral equation formulation of the Neumann problem for a vector field in R^3 with application to potential lifting flows, 5A1016
POLITOVICH, MK: Response of a research aircraft to icing and evaluation of severity indices, 9A1230
POLIZZOTTO, C: Dynamic shakedown of structures under repeated seismic loads, 6A1274
- Elastic-plastic-damage constitutive models with coupling internal variables, 7T530
- Dynamic shakedown of structures with variable appended masses and subjected to repeated excitations, 11A18
POLK, KD: Using aural (audible) information generated directly from conventional NDE technology signals to aid the inspector in defect detection and discrimination, 7A893
POLL, A: Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer, 6A1368
POLLAK, J: Calculated effect of freestream turbulence on aerodynamic characteristics of a delta wing, 2T1010
POLLARD, A: Distributive mass balance correction in single- and multigrid incompressible flow calculation, 11T903
- Heat transfer in separated and impinging turbulent flows, 11A1137
POLLOCK, GD: Shear center for elastic thin-walled composite beams, 8A478
POLOTAI, VV: Tribological properties of titanium-nickel compound at dry friction, 6A787
POLSKY, Y: Derivation of the Casimir limit phonon distribution using the Boltzmann transport equation, 3T1139
POLYAEV, VM: Study of internal heat transfer in nonuniform porous structures, 10T1423
POLYAK, RA: Structural optimization using the Newton modified barrier method, 6A725
POLYAKOV, AN: Modern methods for hardening machine parts, 5T679
POLYAKOV, VA: Ultimate stresses in spatially reinforced composites of different structural geometry and component elastic properties (Russian), 7A574
POLYAKOVA, OR: Weight functions and invariant integrals of higher order, 3A680
POLYANIN, AD: Handbook of Exact Solutions for Ordinary Differential Equations, 5N33
POLYCARPOU, AA: Measured transitions between sticking and slipping at lubricated line contacts, 5A775
POLYNKINE, AA: Optimization of geometrically nonlinear structures based on a multi-point approximation method and adaptivity, 11A729
- Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, 12A830
POLYSHCHUK, V: Dynamic analysis and experimental correlation of a gear transmission system, 9A222
POLYZHAEV, YV: International Encyclopedia of Heat and Mass Transfer, 6N35
POLYZOIS, D: Stability of thin-walled pultruded structural members by the FEM, 5A37
POLYZOS, D: Studies on dual reciprocity BEM for elastodynamic analysis, 7A246
POMIES, F: Influence of water absorption on transverse tensile properties and shear fracture toughness of glass-polypropylene, 12A755
POMMET, DA: Dual twin image effect from a waveguide hologram, 1A847
POMPO, A: Analysis of steel fiber pull-out from a cement matrix using video photography, 10A573
POMREHN, LP: Discrete optimal design formulations with application to gear train design, 5A847
- Infeasibility and non-optimality tests for solution space reduction in discrete optimal design, 5A849
PONCE, E: Global first harmonic bifurcation diagram for odd piecewise linear control systems, 10A104
PONCE, MA: Effect of dielectric constant of the liquid phase of electrorheological Fluids, 7A1136
PONG, WS: Seismic study of buildings with viscoelastic dampers, 8A158
PONOMARENKO, DV: Frequency-Domain Methods for Nonlinear Analysis: Theory and Applications - Nonlinear Science: Series A, Vol 9, 11N14
PONS, M: Experimental temperature fronts for adsorptive heat pump applications, 8A1210
PONSLET, D: Comparison of probabilistic and deterministic optimizations using genetic algorithms, 6A712
PONSLET, E: Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808
PONSODA, E: Second-order difference systems in unbounded domains: Existence conditions and construction of exact and approximate bounded solutions, 1A43
PONTE CASTANEDA, P: Exact second-order estimates for the effective mechanical properties of nonlinear composite materials, 12A530
PONTE CASTENEDA, P: Effect of spatial distribution on the effective behavior of composite materials and cracked media, 4A728
PONTY, Y: Dynamos in weakly chaotic 2D flows, 3T99
POOLE, EL: Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, 4A39
POOLE, P: In situ SEM measurements of crack closure for small fatigue cracks in aluminum 2024-T351, 1A758
POOLLA, K: Optimal asymptotic robust performance via nonlinear controllers, 5A325
- Statistical model validation, 12A332
POOLPOL, S: Experimental and theoretical information on solid flow in a circulating fluidized bed, 1A1363
POON, CHIN Y: Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler, 5A797
- Surface roughness analysis of glass-ceramic substrates and finished magnetic disks, and Ni-P coated Al-Mg and glass substrates, 5A803
POON, H: Optimal design of diamond anvils using FE analysis and simplified plasticity equilibrium equations, 9A887
POORMON, KL: Scale model experiments with ceramic laminate targets, 5A197
POOROOSHASB, HB: Negative skin friction on rigid and deformable piles, 8A539
- Application of an integrodifferential equation to the analysis of geotechnical problems, 11A572
- Deformation analysis of soft ground reinforced by columnar inclusions, 11A571
POOTS, G: Simulation of wet-snow accretion by axial growth on a transmission line conductor, 1A1441
POP, I: Conjugate free convection from a horizontal surface in a porous medium, 2A1090
- Flow and heat transfer due to a suddenly stopped and cooled plate, 3A1065
- Boundary layer flow and heat transfer on a continuous moving wavy surface, 3A939
- Non-Darcy natural convection from a vertical wavy surface in a porous medium, 4A1316
- Buoyancy-induced flow adjacent to a periodically heated and cooled horizontal surface in porous media, 4A1166
- Stretching a surface in a rotating power-law fluid, 5T881
- Free convection from a horizontal moving sheet, 6A1077

- Conjugate free convection on a vertical surface, 7A1208
- Natural convection from a horizontal permeable surface in a porous medium: Numerical and asymptotic solutions, 9A1371
- Laminar boundary layer flow of power-law fluids over wavy surfaces, 9A1136
- Natural convection from a vertical plate with a prescribed surface heat flux in porous media, 9A1372
- Mixed convective conjugate heat transfer from a vertical flat plate, 11A1133
- Free convection fluid flow due to a periodically heated and cooled vertical flat plate embedded in a porous media, 11A1153
- Instability of laminar natural convection boundary layer flow on a vertical porous flat plate, 12A1141

POPE, AM: Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, 11A834

POPE, CW: Cooling methods for railway tunnels, 6A1069

POPE, DS: Multiple scales approach to sound generation by vibrating bodies, 2A210

POPE, MH: Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458

POPE, TL: Change in trabecular architecture as measured by fractal dimension, 10A1461

POPESCU, M: Stability of motion of 3D halo orbits, 3T88

- Existence conditions for periodical solutions of a dynamic systems class, 11T86
- Existence of the dynamic systems solutions derivative reported to the initial conditions, 11T87

POPIEL, CO: Friction factor in sine-pipe flow, 12A1121

POPKOV, AG: Operator-splitting schemes for the stream function-vorticity formulation, 2A33

POPKOV, AN: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077

POPKOV, YS: Multiplicative algorithms for determining positive solutions of nonlinear equations, 12A77

POPLAWSKI, JV: Comparison of life theories for rolling-element bearings, 8A810

- Comparison of life theories for rolling-element bearings, 8T811
- Predicting steady-state temperature, life, skid, and film thickness in a greased preloaded hybrid ball bearing, 10A1014

POPOV, AV: Construction of an algebraically reduced system for the acceleration of preconditioned conjugate gradients, 12A74

POPOV, EP: Cyclic performance of steel beam-column moment joints, 4A869

POPOV, G: Theoretical analysis of damping properties of two-dof linear vibrational systems, 8A104

- Shape optimization of elliptical road containers due to liquid load in steady-state turning, 8A837

POPOV, IN: Application of physical methods for monitoring fatigue processes in rotor steels for estimating the residual service life of turbo-generator shaftings, 12T800

POPOV, IY: Operator approach to three problems of fluid mechanics, 9A1060

POPOV, JR: Pore formation in hot spots, 12A1220

POPOV, OV: Analysis of the forming of parts from sheet blanks with electrocontact heating, 9A691

POPOV, V: Domain decomposition on the dual reciprocity approach, 11T52

POPOV, VG: Comparative study of diffraction fields generated by elastic waves passing through imperfections of various nature, 7A242

- Vertical oscillations of the rigid-edge inclusion under effect of harmonic load, 9A169

POPOV, VI: Heat transfer in pulsating flow of a liquid with internal heat sources, 5A1128

POPOVA, GE: Problem of information-measuring system reliability calculations, 11A304

POPOVIC, D: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474

- Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, 11A384

POPP, K: Bifurcation and stability analysis for a non-smooth friction oscillator, 10A95

POPPER, G: Identification of bilinear material models of nonlinear beams on nonlinear foundation, 10A600

POPPLE, DF: Sound field due to a periodic array of forced wave-bearing strips, 6T233

POPPLEWELL, N: Finite element modeling of transmission line galloping, 1A143

- Influence of an off-set payload on a flexible manipulator, 8A352
- Free vibrations of a complex Euler-Bernoulli beam, 8A108
- Perturbation-based FE analyses of transmission line galloping, 10A315
- Krylov-Bogoliubov and Galerkin methods for nonlinear oscillations, 10A108

POPYACK, LJ: Application of statistical clustering to screen printing process control, 3A383

PORAT, I: CAD-CAM of 3D woven structures (preforms) for fiber-reinforced composites, 6A427

POROWSKI, S: Crystallographic properties of bulk GaN crystals grown at high pressure, 6A704

PORSANI, MJ: Fast algorithms to design discrete Wiener filters in lag and length coordinates, 11A1370

PORSCHING, TA: Characteristic-like method for thermally-expandable flow on unstructured triangular grids, 10A40

PORTER, D: Decomposition methods for wave scattering by topography with application to ripple beds, 4A271

- Extensions of the mild-slope equation, 4A273

PORTER, DB: Aerodynamic interference of dissimilar aircraft flying in close proximity, 9T1224

PORTER, LH: Effective thermal conductivity of a saturated porous medium, 1T1371

PORTER, MM: Development of a home ankle exerciser, 11A1473

PORTER, R: Hydrodynamic characteristics of an oscillating water column device, 7A1400

- Wave scattering by periodic arrays of breakwaters, 10A268

PORTER, RS: Viscosity-temperature behavior of polymer melts, 4A891

PORTER, RW: Thermoeconomic optimization of sensible heat thermal storage for cogenerated waste-to-energy recovery, 5A1290

PORTERIE, B: Solid-propellant fire in an enclosure fitted with a ceiling safety-vent, 4A1262

PORTNOV, GG: Evaluation of potentialities of composites application in ship shaftlines (Russia), 8A467

PORUBOV, AV: Long nonlinear strain waves in layered elastic half-space, 5A181

POSKITT, TJ: Deflection of piles during driving, 12A650

POSMYK, A: Tribological properties of aluminum alloys with reinforcing phase (Polish), 6A840

POSPOLITA, J: Mathematical modeling in measurements of unsteady flows with ultrasonic flowmeters, 1A984

POST, YW: Modeling of a controlled pneumatic swing-plug train door, 6A852

POSTASHEV, AV: Aero- and gas dynamics of flight vehicles and their engines: A technique of aerodynamic design of surface effect vehicle airfoil, 8A1014

POSTEL, M: Spectral analysis of randomly scattered signals using the wavelet transform, 4A243

POSTIC, R: Finite element analysis applied to radial aircraft tire engineering, 8A775

POSTL, R: Schwingungen elastischer Kontinua (Vibration of Elastic Continua) (German), 7R7

POSTLETHWAITE, I: Advanced helicopter flight control using two-dof H^{∞} optimization, 8A323

POSTNIKOV, SN: Hydrodynamics of a contact device with a spiral ribbon, 2T955

POSTNOV, VA: New model of isoparametric FE for shell calculations, 3A37

POTA, HR: Multivariable transfer functions for a slewing piezoelectric laminate beam, 5A544

POTAPOV, A: Observation of nonlinear scattering of acoustical waves at sea sediments, 7A341

POTAPOV, AI: Nonlinear oscillations of a thin bar, 8A166

POTAPOV, VD: Almost sure stability of a viscoelastic rod subjected to a random stationary longitudinal force, 7A679

- Stability of elastic and viscoelastic systems under a random perturbations of their parameters, 9A494

POTELLE, A: Real-time vehicle trajectory supervision on the highway, 4A377

POTEMKIN, MM: Thermodynamic analysis of rough surfaces in contact, 6A811

POTERASU, VF: Optimal control in minimum time of the operating unbalanced rigid rotors, 11A128

POTHOU, KP: Unsteady flowfield and torque predictions during the rotation of the guidevanes of hydraulic turbine, 5A1065

POTKONJAK, V: Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance, 11A384

- Estimation of geometrical parameters for modular robots, 12A460

POTOCKY, J: Chip breaking equipment in machining (Polish), 11A828

POTOTZKY, AS: Matched-filter and stochastic-simulation-based methods of gust loads prediction, 2A198

- Quasisteady aerodynamics for flutter analysis using steady computational fluid dynamics calculations, 7A293

POTTER, RM: Experiments in thermal spallation of various rocks, 8A1370

POTTER, S: Barriers to energy in vehicle design, 11A1279

POTTI, SV: Simple model to predict residual velocities of thick composite laminates subjected to high-velocity impact, 7A578

POTTIER, T: Three-dimensional unsteady viscous flows between oscillating eccentric cylinders by an enhanced hybrid spectral method, 1T991

POTTS, MAS: Cancelling deterministic noise by constructing nonlinear inverses to linear filters, 6A278

POTVIN, L: Fractal aggregates with fullerene-like monomers, 8A462

POTYONDY, DO: Computation of membrane and bending stress intensity factors for thin, cracked plates, 3A681

POTZE, W: Non-isothermal Poiseuille flow of a liquid crystalline material - 2: Tumbling nematic, 2A845

- Non-isothermal Poiseuille flow of a liquid crystalline material - 1: Flow-aligning nematic, 2A844

POULARIKAS, AD: Transforms and Applications Handbook, 5N7

POULIKAKOS, D: Effect of surface roughness on the vapor flow under Leidenfrost-levitated droplets, 5A919

- Transport phenomena in picoliter size solder droplet dispension, 8A1117
- Real-time microholography for in-situ concentration measurements in the vicinity of growing dendrites, 8T1149
- Holography experiments in a dense high-speed impinging jet spray, 8A934
- Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - I: Modeling, 11A1183
- Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - II: Experiments, 11A1184

POULIN, P: Effect of cleanliness on the attainable bearing life in aerospace applications, 2T814

POULLIKKAS, A: Surface roughness effects on induced flow and frictional resistance of enclosed rotating disks, 5T936

POULY, L: Modeling and analysis of a spray of droplets' combustion problem, 1A1317

POUQUET, A: Dynamos in weakly chaotic 2D flows, 3T99

- Sparse-mode spectral method for the simulation of turbulent flows, 6A46

POURAZADY, M: Integrated approach to structural shape optimization, 11A723

POURKASHANIAN, M: NO_x formation in large-scale oxy-fuel flames, 8A1258

POURMOVAHEAD, A: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9

POURROY, F: Optimal constrained layer damping of beams: Experimental and numerical studies, 3A122

POURSARTIP, A: Proceedings of the Tenth International Conference on Composite Materials, 11N35

POUSIN, J: Modeling and analysis of a spray of droplets' combustion problem, 1A1317

POUSSARD, C: Analytical and FE predictions of residual stresses in cold worked fastener holes, 3A465

POUSSARD, CG: Assessment of residual-stress measurements around cold-worked holes, 5A458

POVAROV, OA: Experimental investigation on the effect of vibration on flow of liquid film in a horizontal duct, 4A952

POWELL, A: Sound-production mechanisms of the axisymmetric choked jet impinging on small plates: The production of primary tones, 6A236

POWELL, DM: Prediction of bed-load transport by desert flash floods, 8A881

POWELL, GE: Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93, 12N10

POWELL, JD: Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, 9A1340

POWELL, KG: Solution-adaptive Cartesian cell approach for viscous and inviscid flows, 10A49

POWELL, PC: Thermally-induced shapes of unsymmetric laminates, 10A1341

POWELL, RW: Mars Pathfinder six-dof entry analysis, 5A239

POWER, H: Boundary Element Applications in Fluid Mechanics, 2R30

- Computer Simulations in Biomedicine, 3N48
- Boundary Elements XVII, 2N1
- Applications of High-Performance Computing in Engineering IV - Proc of 4th Int Conf, ASE '95, Milan, June 1995, 3N4
- Completeness of the multiple reciprocity series approximation, 1A50
- Domain decomposition on the dual reciprocity approach, 11T52

POWER, TL: Circumferential stiffeners as buckle arrestors in long panels, 8A518

POWERS, CM: Effect of five prosthetic feet on the gait and loading of the sound limb in dysvascular below-knee amputees, 6A1373

POWERS, L: Stochastic parallel-brittle networks for modeling materials, 7A551

POZA, P: Influence of reinforcement fracture on the cyclic stress-strain curve of metal-matrix composites, 3A696

POZDEEV, OD: Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, 3A80

POZHALOSTIN, AA: Longitudinal-transverse oscillations of elastic beam with liquid, 6A210

- Multicriteria simulation and analysis, 12A973

POZHARSKII, DA: Spatial contact problem for an elastic wedge with unknown contact area, 8A393

POZHUEV, VI: Stationary waves in a two-layered cylindrical shell with elastic junction of the layers, 7A225

- Distribution of free waves in the composite plate with elastic coupling between layers, 7A233

POZNYAK, EL: Specific features of transformer equipment, 10A443

POZRIKIDIS, C: Finite deformation of liquid capsules enclosed by elastic membranes in simple shear flow, 2A1304

- Shear flow over a liquid drop adhering to a solid surface, 7A1088

PRABHAKARA, DL: Static and dynamic behavior of square plates with inhomogeneity subjected to non-uniform edge loading: Compression and tension, 8A19

- Static and dynamic elastic behavior of damaged plates subjected to local inplane loads, 11A549

PRABHAKARAN NAIR, K: Analysis of mass transfer effects on the performance of journal bearings using micropolar lubricant, 3A1002

PRABHU, A: Experimental study of a jet with local buoyancy enhancement, 1A1063

PRABHU, BS: Effects of coupling misalignment on vibrations of rotating machinery, 2A139

- Experimental identification of linearized oil film coefficients of cylindrical and tilting pad bearings, 5A828

PRABHU, SK: 1-pentene oxidation and its interaction with nitric oxide in the low and negative temperature coefficient regions, 9A1327

PRABHU, VV: Heterarchical control of highly distributed manufacturing systems, 12A467

PRADA, C: Decomposition of the time reversal operator: Detection and selective focusing on two scatterers, 9A381

PRADHAN, S: Control of Tethered Satellite Systems using thruster and offset strategies, 11A321

PRADLWARTER, HJ: Wide-band random vibrations in members of complex structures, 2A86

- Combined integral and FE analysis of broad-band random vibration in structural members, 6A761

PRADO, AFBA: Orbital planar maneuvers using two and three-four (through infinity) impulses, 8T319

PRADO, RA: Reformulation of the momentum theory applied to wind turbines, 5T1024

PRAKAH-ASANTE, KO: Active control of wave-type vibration energy for improved structural reliability, 4A797

PRAKASH, A: Quasi-static fracture behavior of an aluminum alloy metal-matrix composite, 2A655

- Steady Rayleigh-Benard convection in a two-layer system of immiscible liquids, 11A1125

PRAKASH, B: Optimum kinetic energy dissipation in blood flow in glass capillaries by flow field determination: Analysis of curvature effect by axial tomographic and image velocimetry techniques, 8A1435

PRAKASH, J: Toxicity of organic chemicals and their mixtures to activated sludge microorganisms, 10A1454

PRAKASH, O: Structure and fracture behavior of t-ZrO_2/Al_2O_3 lamellar composites, 1A822

- Creep of metal-type organic compounds - II: Indentation creep, 8A408

PRAKASH, OM: Failure analysis of the impellers of a feed pump, 9A765

PRAKASH, RS: Steady-state plane-strain cold rolling of a strain-hardening material, 3A609

PRAKASH, S: Nonlinear lateral pile deflection prediction in sands, 7A707

PRAKASH, V: Pressure-shear plate impact experiment for investigating transient friction, 5A815

- Solder joint reliability prediction by the integrated matrix creep method, 12A987

PRAMILA BAI, BN: Effect of interface layers formed during dry sliding of zirconia toughened alumina (ZTA) and monolithic alumina against steel, 10A992

PRAMILA, A: Comment on "stability of non-conservative linear discrete gyroscopic systems" 2T503

- Accuracy of composite shell elements in transient analysis involving multiple impacts, 9A208

PRAMPOLINI, M: Data-parallel lower-upper relaxation method for the Navier-Stokes equations, 12A1054

PRAPAS, DE: Large DHW solar systems with distributed storage tanks, 3A1376

PRASAD BOPPANA, S: Development of a graded TiCN coating for cemented carbide cutting tools: A design approach, 3A834

PRASAD, AK: Optimization procedure for pulse separation in cross-correlation PIV, 12A1208

PRASAD, B: Effect of glass cover inclination and parametric studies of concentrator-assisted solar distillation system, 12A1429

PRASAD, BSV: Fin efficiency and mechanisms of heat exchange through fins in multi-stream plate-fin heat exchangers: Formulation, 4A1219

PRASAD, BVSSS: Response of periodic wall protrusions on average flow and heat transfer characteristics in a forced convection study, 11A1103

PRASAD, CB: Low-speed impact damage-initiation characteristics of selected laminated composite plates, 3A196

PRASAD, D: Lubrication of rollers by power law fluids considering consistency-variation with pressure and temperature, 2A1052
PRASAD, NNV: Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, 8A621
- Dual BEM for transient thermoelastic crack problems, 11A59
PRASAD, P: Approximate solution of 1D piston problem, 2A186
PRASAD, R: Hysteretic behavior prediction of full and partial penetration transverse groove welded joints, 7A1029
- Theoretical performance of a solar pond with enhanced ground energy storage, 11A1429
PRASAD, V: Numerical algorithm using multizone adaptive grid generation for multiphase transport processes with moving and free boundaries, 12A1224
PRASAD, YKDV: Neural network approach to flow stress evaluation in hot deformation, 3A389
PRASHAD, H: Diagnosis of bearing problem of synchronous condenser: An experimental and theoretical investigation, 3A831
- Magnetic flux density distribution on the track surface of rolling-element bearings: An experimental and theoretical investigation, 8A787
PRASKOVSKY, A: Lighthill relationship and sound generation from isotropic turbulence, 2A216
PRAT, M: Effect of surface roughness on the vapor flow under Leidenfrost-levitated droplets, 5A919
PRAT, PC: Microplane model for concrete - I: Stress-strain boundaries and finite strain, 8A443
- Microplane model for concrete - II: Data delocalization and verification, 8A444
PRATAP, CR: Computer aided detection of isomorphism among kinematic chains and mechanisms using the concept of modified distance, 9A1012
PRATHAP, G: Barlow points and Gauss points and the aliasing and best fit paradigms, 3A24
- Beam elements based on a higher order theory - I: Formulation and analysis of performance, 4A544
- Beam elements based on a higher order theory - II: Boundary layer sensitivity and stress oscillations, 4A545
- Shear force predictions from RBF corrected QUAD4 elements, 8A45
- Best-fit stress performance of a higher-order beam element, 10A601
PRATT, DT: Fluid phenomena in scramjet combustion systems, 6A1212
PRATT, E: Formulation and approximation of quasistatic frictional contact, 12A945
PRATT, RW: Effect of actuator nonlinearities on aeroservoelasticity, 8A1016
PRAVICA, DW: Model for the effect of roughness on the load capacity of journal bearings, 1A944
PRAX, C: Application of the diffuse approximation for solving fluid flow and heat transfer problems, 3T1075
- Collocated diffuse approximation method for 2D incompressible channel flows, 7T1067
- Diffuse approximation method for solving natural convection in porous media, 9A1370
PREDELEANU, M: Materials Processing Defects - Studies in Applied Mechanics series, Vol 43, 6N24
PREDRAG, C: Determination of optimum dimensions of lattice structure cross-sections, 1A865
PREDRAG, K: Dynamic stability of viscoelastic Rayleigh-type beams subjected to random excitations, 1A129
PREECE, FR: Seismic behavior of older steel structures, 10A1432
PREISS, AK: Solution of the axisymmetric problem of integrated photoelasticity, 12A788
PRELLS, U: Properties of various residuals within updating of mathematical models, 1A211
PREMUS, V: Full-field optimum detection in an uncertain, anisotropic random wave scattering environment, 1A324
PRENDERGAST , PJ: Comparison of FE codes for the solution of biphasic poroelastic problems, 12A5
PRENDERGAST, PJ: Microdamage and osteocyte-lacuna strain in bone: A microstructural FE analysis, 11A1456
PRENTER, PM: Alternating direction collocation for irregular regions, 7A59
PREOBRAZHENSKAYA, MV: Parametric pulses during shockless reversals in linkage clearances, 9A1026
PRESCOTT, PJ: Effect of turbulence on solidification of a binary metal alloy with electromagnetic stirring, 3A1195
- Effect of time marching schemes on predictions of oscillatory natural convection in fluids of low Prandtl number, 11A1158
- Effect of time varying thermal boundary conditions on oscillatory natural convection of a low-Prandtl-number fluid, 12A1212
PRESENTE, E: Structural dynamic loads in response to impulsive excitation, 1A179
PRESSER, C: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
- Role of combustion on droplet transport in pressure-atomized spray flames, 11A1302
PRESTI, F: Pipe flow of a thixotropic liquid, 8A949
PRESTON, DB: Return periods and encounter probabilities, 5A1339
PRESTON, MA: Integration of magnetic bearings in the design of advanced gas turbine engines, 5A1281
PRESZ JR, WM: Thrust characteristics of a supersonic mixer ejector, 2A1190
PREUMONT, A: Random Vibration and Spectral Analysis, 1R7
- Experiment of active control of a cable using a piezoelectric active tendon collocated with a force sensor, 4A372
- Active tendon control of cable-stayed bridges, 12A396
PREVOROVSKY, Z: Numerical modeling of acoustic emission signal propagation in a thin strip, 6A182
PREVOST, JH: Well-posedness of the initial value problem in elasto-plastodynamics for a linear comparison solid, 2A400
- Interior energy focusing within an elasto-plastic material, 8A436
PREVOSTO, M: Observations of the high-frequency range of the wave spectrum, 11A1415
PREZHDO, OV: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
- Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209
PREZHDO, VV: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
- Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209
PREZIOSI, L: Modelling Mathematical Methods and Scientific Computation - Mathematical Modelling Series, 5R1
PRICE, DB: Integrated controls-structures design methodology for flexible spacecraft, 5A243
PRICE, DM: Temperature calibration of differential scanning calorimeters, 6A1066
PRICE, MA: Hexahedral mesh generation by medial surface subdivision - Part I: Solids with convex edges, 2A31
PRICE, SJ: Review of theoretical models for fluidelastic instability of cylinder arrays in cross-flow, 1A256
- Virtual nonexistence of multiple instability regions for some heat-exchanger arrays in crossflow, 9A1269
PRIEST, M: Assessment of residual-stress measurements around cold-worked holes, 5A458
PRIESTLEY, MJN: Displacement-based design of RC bridge columns in seismic regions, 5A1317
- Seismic assessment and retrofit of bridge column footings, 7A949
PRIESTLY, N: Recent Developments on Lateral Force Transfer in Buildings - Proc of Thomas Paulay Symp, 12N31
PRIEUR, E: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283
PRIEUR, J: Aerodynamic and acoustic calculations of transonic nonlifting hovering rotors, 10A1217
PRILUTSKY, BI: Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion, 8A1424
- Comparison of mechanical energy expenditure of joint moments and muscle forces during human locomotion, 8A1420
- Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion, 8A1425
PRIMAK, ME: Projection cutting plane algorithm for convex programming problems, 7T77
PRINOS, P: Uniform flow in open channels with steep slopes, 4T920
- Wall suction effects on the structure of fully-developed turbulent pipe flow, 9A1151
PRINZ, FB: Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, 8A1171
PRIOLO, E: Modeling of ground motion in the vicinity of massive structures, 8A1334
PRISHEPIONOK, S: G-moving frames and their applications in dynamics, 4A95
PRISNIAKOV, VF: Way to creating a system of distant power supply for space vehicles, 8A1393
PRITCHARD, AJ: Regional controllability of distributed parameter systems, 5A299
PRITCHARD, CL: Performance of novel compact heat exchangers with highly extended surfaces, 6A1146
PRITCHARD, JI: Optimization for minimum sensitivity to uncertain parameters, 12A821
PRITCHARD, WF: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
PRIVARNIKOV, YK: Stability of cylindrical shell under the deflection compression under 1-way connection, 9A634
PRIVEN, M: Theoretical study of a laminar jet in a double-diffusion environment, 5A948
- Experimental study of a laminar jet in a double-diffusion environment, 5A949
PROAKIS, JG: Reduced-complexity spatial and temporal processing of underwater acoustic communication signals, 1A308
PROBERT, EJ: Unstructured tetrahedral mesh generation for 3D viscous flows, 7A1073
PROBERT, SD: Integrated thermochemical heat-pump-energy-store, 2A1149
PROCHAZKA, P: Behavior of composites on bounded domain, 11A57
PROCTOR, MRE: Nonlinear compressible magneto-convection - Part 3: Traveling waves in a horizontal field, 4A1094
- Compressible magnetoconvection in 3D: Planforms and nonlinear behavior, 6A1003
PRODI, N: Reactive acoustic intensity for general fields and energy polarization, 9A337
PROGAR, DJ: Preliminary evaluation of hybrid titanium composite laminates, 8A460
PROKERT, G: Existence of solutions in plane quasistationary Stokes flow driven by surface tension, 4A946
PROKES, SM: Surface-Interface and Stress Effects in Electronic Material Nanostructures, Volume 405, 11N10
PROKHORENKO , IV: Thermostressed state of laminar shells of revolution with regard for creep deformation in the layers of orthotropic-materials under simple process of loading (Russian), 3A541
PROKHORENKO, IV: Thermoviscoelastoplastic axisymmetrical stress-strained state of laminar shells of isotropic and orthotropic materials, 7A630
PROKHOROV, VP: Gearings with intersecting axes and a helical motion of the driven gear-wheel, 7A1006
PROKHOROVA, NI: Gearings with intersecting axes and a helical motion of the driven gear-wheel, 7A1006
PROKOP'EV, VN: Dynamics of high-speed rotors running in bearings with floating nonrotating bushings, 9A1011
PROKOP, RM: Development and linear stability of rotating boundary layers, 6A982
PROKOPENKO, NY: Effect of the form of meridian and ring reinforcement on the value of critical pressure for the shells of revolution, 7A671
PROMISLOW, K: Effective elastic moduli of a soft medium with hard polygonal inclusions and extremal behavior of effective Poisson's ratio, 4A435
PRONI, JR: Probabilistic analysis of ocean outfall mixing zones, 10T1453
PRONIKOV, AS: Structure of automated calculation of the parametric reliability of machines, 6A860
PRONIN, A: Mechanisms and quantification of spalling failure in laminated composites under shock loading, 11A684
PROPST, G: Comparison of time domain boundary conditions for acoustic waves in wave guides, 11A254
PROSLIER, L: Optimization of structures under technological casting constraints, 6A723
PROSPERETTI, A: Linear pressure waves in fogs, 2A928
- Finite-particle-size effects in disperse two-phase flows, 5A912
- Effective boundary conditions for Stokes flow over a rough surface, 12A1039
PROSSDORF, S: Algorithm for the approximate solution of integral equations of Mellin type, 1A67
PROSSER, WH: Application of normal mode expansion to acoustic emission waves in finite plates, 12T273
PROTTI, M: Simultaneous inversion for earthquake location and velocity structure beneath central Costa Rica, 11A1355
PROULX, RJ: Spaceflight Mechanics 1995, Part I and II - Advances in the Astronautical Sciences, Vol 89, 3N9
PROVAN, JW: Stochastic systems approach to fatigue reliability: An application to Ti-6Al-4V, 8A605
PROVOTOROV, VP: Exponential box-schemes for boundary-layer flows with blowing, 6A955
PRUD'HOMME, M: Numerical solution for the inverse natural-convection problem, 4A1175
- Determination of the radiative boundary conditions on the surface of an enclosure, 8A1186
PRUDHOMME, S: Rear fuselage flow studies on a modern transonic tranport aircraft, 5A997
PRUESS, K: Mixing with first-order decay in variable-velocity porous media flow, 9A1354
PRUETT, CD: Spatial direct numerical simulation of high-speed boundary-layer flows - Part II: Transition on a cone in Mach 8 flow, 2T945
- Simulation and analysis of instability and transition in high-speed boundary-layer flows, 5A930
PRUSA, J: Viscous dissipation in non-Newtonian flows: Implications for the Nusselt number, 3A1063
PRUSTY, D: Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, 5A1378
PRYAKHINA, OD: Approach to the solution of dynamic problems for laminated electroelastic and anisotropic media, 7A688
PRZANOWSKI, M: Weyl-Wigner-Moyal formalism - I: Operator ordering, 6A72
PRZERADA, I: Appreciation of experimental methods usefulness to analyzing metals embrittlement phenomena, 9A775
PRZEWLOCKI, J: Settlement of a soil stratum subjected to an earthquake, 4A604
- Deformations due to gravity in random elastic soil medium - Part 1: Uniaxial strain state, 9A671
- Deformations due to gravity in random elastic soil medium - Part 2: Plane strain analysis, 9A672
PRZEWLOCKI, S: PN and ISO standards of modular coordination, tolerances, dimensioning, and measurement procedures in buildings (Polish), 10T903
PRZYBYL, K: Factors which determine yarn breakage during the ring spinning process, 6A457
- Dynamics of yarn in the process of its formation on the ring-spinning machine, 9T553
PRZYBYLOWICZ, PM: Torsional vibration control by active piezoelectric system, 3A379
PRZYBYLSKI, J: Longitudinal vibration of rods coupled by translational springs, 2T93
- Free vibration of an axially-loaded prestressed planar frame, 7A181
PRZYBYTEK, J: Hydrostatic pressure study of MBE CdMnTe doped with bromine, 6A517
PSHENICHNOV, GI: Lateral flexure of a stretched rectangular plate with elastic contour, 3A530
PSHENICHNOV, SG: Nonsteady processes in cylindrical shells under impact loads, 6A190
PSHENITSYN, AA: Theoretical-experimental method for determining the stiffness and dissipative characteristics of elastodamping elements in the frequency domain, 10A137
PSIAKI, ML: Augmented Lagrangian nonlinear programming algorithm that uses SQP and trust region techniques, 2A259
PTCHELINTSEV, A: Eddy current measurement of the wall thickness and conductivity of circular non-magnetic conductive tubes, 12A799
PU , HJ: Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation, 7T459
PU, QI: Hybrid method of 3D elastoplastic analysis of structure based on elastic solution (Chinese), 8A435
PU, QIAOSHENG: Antiwear and extreme pressure characteristics of 2-mercaptobenzothiazole derivative as the potential lubricating oil additive, 10A1229
PU, SHIZHOU: Convection and heat transfer of elliptical tubes, 3A1017
PUCCI, E: Universal solutions for totally inextensible isotropic elastic materials, 7A492
- Bending of a pretwisted bar by terminal transverse load, 9A569
- Universal relations in constrained elasticity, 11A420
PUCHALSKI, J: Object contour recognition using oriented grids, 1A376
PUCHERT, R: Analysis of thermal behavior of high power semiconductor laser arrays by means of the FEM, 3A1100
PUCHKA, GN: Localization of gas bubbles in a cylindrical cavity with the emitter along its axis (Russian), 7A1090
- Motion of a liquid drop in oscillating liquid, 9A1117
PUDJAPRASETYA, SR: Unidirectional waves over slowly-varying bottom - Part II: Quasi-homogeneous approximation of distorting waves, 10A290
PUDOVIKOV, DY: Construction of the optimal contour of the leading edge of a body in a supersonic flow, 4A991
PUDOVKIN, MI: Influence of solar cosmic ray bursts on the temperature of the high-latitudinal atmosphere, 9A1403
- Effects of the galactic cosmic ray variations on the cloudiness state, 9A1402
PUEL, F: Separable and partially separable systems in the light of the inverse problem of dynamics, 10A326
PUENTE, CE: Multifractal analysis of lidar measured water vapor, 8T88
PUENTE, EA: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429
PUERS, R: Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, 10T453
- CMOS foundry-based micromachining, 10T452
PUGLIESE, A: Estimation of response spectra and simulation of nonstationary earthquake ground motions, 11A1400
PUHAK, RI: Unsteady separation and heat transfer upstream of obstacles, 6A953
PUI, DYH: Optimization of pleated filter designs using a FE numerical model, 4A1018
- Comparative study of pressure reducers for aerosol sampling from high purity gases, 4A1282
- Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
PUIG-SUARI, J: Aerocapture with a flexible tether, 4T369
PUIGGALI, J-R: Relative permeability relations: A key factor for a drying model, 12A1347
PUJA, IW: Love's circular patch problem revisited: Closed form solutions for transverse isotropy and shear loading, 11A412

PUJADAS, J: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
PUL, VN: Heat transfer to a finned tube in a high-temperature pulsating layer, 10A1284
PULA, W: Probabilistic analysis of foundation settlements, 11A565
PULEV, SN: Investigation of engine-excited vertical automobile vibrations, 3A81
PULLAN, A: Choice of a derivative BE formulation using Hermite interpolation, 7A53
PULLIAM, J: Fast, efficient calculation of rays and travel times with ray perturbation theory, 6A1248
PULLIN, DI: Numerical study of hypersonic leeward flow over a blunt nosed delta wing, 2A1019
- Steady compressible vortex flows: The hollow-core vortex array, 4A993
- Inviscid separated flow over a non-slender delta wing, 6A1014
PULMANO, VA: Improved fuzzy linear programming model for structure designs, 4A791
PUN, D: Internal resonance of an L-shaped beam with a limit stop - Part II: Forced vibration, 12A153
- Internal resonance of an L-shaped beam with a limit stop - Part I: Free vibration, 12A152
PUNJANI, M: Nonlinear analysis of blast walls and stiffened panels subjected to hydrocarbon explosions, 10A9
PURCELL, TE: Use of thermoelasticity to evalute stress redistribution and notch sensitivity in ceramic matrix composites, 9A564
PURI, IK: Removal of NO by low-temperature O_3 oxidation, 1A1326
- Stretched laminar flamelet modeling of turbulent chloromethano-air nonpremixed jet flames, 5A1221
- Heat release mechanisms in inhibited laminar counterflow flames, 7A1326
PURI, P: Nonclassical thermal effects in Stokes' second problem, 3A897
PURI, RK: Adhesion improvement and intrinsic stress decrease in cerium oxide thin films by chopping, 9A1032
PURI, S: Collision dynamics of fronts in the Korteweg-de Vries-Burgers equation, 6A193
PURI, V: Adhesion improvement and intrinsic stress decrease in cerium oxide thin films by chopping, 9A1032
PURVIS, MRI: NO_x emissions and thermal efficiencies of small scale biomass-fueled combustion plant with reference to process industries in a developing country, 6A1197
PUSHNIN, VP: Analysis of the reliability of internal combustion engine exhaust valves, 9A1027
- Fundamentals of the service life design of diesel exhaust valves, 12A985
PUSSEGODA, LN: Strain rate effects on fracture toughness of ship plate steels, 11A691
PUSTELNY, T: Surface acoustic wave spectroscopy investigation of electrical properties of the near-surface region GaAs crystals, 1A364
PUTCHA, CS: Seismic hazard analysis: Computer validation, 4A1338
PUTCHKOV, IV: Development of a FE based strain accumulation model for the prediction of fatique lives in highly stressed Ti components, 1A750
PUTRESZA, J: Multicriterion reliability-based optimization of bar structure by stochastic programming, 9A885
PUTTICK, KE: Feasibility of detecting pre-cracking fatigue damage in metal-matrix composites by ultrasonic techniques, 3A734
PUTTONEN, J: Seismic probabilistic safety analysis of unit 1 of the Loviisa nuclear power plant, 9A1387
PUYRIGAUD, P: Water content assessment of fresh concrete, 7A552
PUZRIN, A: Kinematic hardening of soft clay in simple shear, 4A602
- Normalized nondegrading behavior of soft clay under cyclic simple shear loading, 6A527
PUZRIN, AM: Logarithmic stress-strain function for rocks and soils, 9T685
PUZYREWSKI, M: Comparison between strictly conical and paraboloidal flow fields in the presence of angular momentum, 9A1103
PYCKO, S: Dynamic shakedown analysis and bounds for elastoplastic structures with nonassociative, internal variable constitutive laws, 1A509
PYKA, A: Corrugated silicon nitride membranes as suspensions in micromachined silicon accelerometers, 10T453
PYKACZ, H: Influence of defects on dielectric properties of $(CH_3NH_3)_5Bi_2X_{11}$ (X = Cl, Br) crystals, 1A688
- Dilatometric and pyroelectric study of phase transition in $(CH_3)_2NH_2Al(SO_4)_2$ times $6H_2O$ ferroelectric crystal, 6A1164
PYRAH, IC: Novel technique for the evaluation of membrane penetration, 2T517
PYRIEV, YA: Nonstationary temperature field and thermoelastic state of bilayered hollow round cylinder under friction heating, 7A1280
PYRZ, M: Knowledge-based discrete optimization of truss structures, 1A872
PYTHOUD, F: Wave transmission and reflection properties of stenoses, 6A1336
PYUN, S-I: Passivation effects on crack closure in the fatigue crack propagation of a peak-aged Al-Li-Zr alloy in NaCl and Na_2SO_4 solutions, 1A760

Q

QADDOUMI, N: Microwave imaging of thick composite panels with defects, 1A853
QAISSAUNEE, MT: Edge dislocation interacting with an elliptical inclusion surrounded by an interfacial zone, 1A462
QAMAR, AI: Tectonics and seismicity of the southern Washington Cascade range, 11A1336
QASSEM, W: Vibration effects on setting pregnant women: Subjects of various masses, 8A1447
QATU, MS: Vibration analysis of cantilevered shallow shells with triangular and trapezoidal planforms, 9A204
QAZZAZ, M: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518
QI, A: Discrete velocity coagulation-fragmentation model, 2A1111
QI, GUORONG: Regression analysis of inlet port performance optimized in diesel engine (Chinese), 8A1289
QI, GZ: Neural network for structural dynamic model identification, 6A274
QI, JIAN: Use of fluorspar in water fluoridation, 6T1304
QI, YUAN-WEI: Degeneracy of a fast-diffusion equation and stability, 9A1298
QI, YUNQIAN: Refined first-order shear-deformation theory and its justification by plane-strain bending problem of laminated plates, 2A476
QIAN , LINGXI: Rigid FE and its applications in engineering, 3A19
QIAN, CF: Fatigue crack growth under mode II loading, 6A598
QIAN, DINGBIAN: Forced nonlinear oscillations for the second order equations with semiquadratic potential, 9T155
QIAN, DUAN: Substructure synthesis method for non-symmetric viscoelastic systems, 2A390
QIAN, J: Combination of the weight function method and the line spring model: A surface-cracked cylindrical shell subjected to stress gradients, 1A833
- Harmonic wave response of two 3D rigid surface foundations, 8A140
- Dynamic cross-interaction between flexible surface footings by combined BEM and FEM, 10A1428
QIAN, JIADE: Dynamic analysis of multi-rotor systems with nonliner dampers by using impedance matching method (Chinese), 10A227
QIAN, JIAN: Issues of turbulence statistics, 3A967
QIAN, JON: Measurement of indoor bioaerosol levels by a direct counting method, 10T1458
QIAN, KUN-XI: Pulsatile impeller heart: A viable alternative to a problematic diaphragm heart, 6A1375
QIAN, KX: Comparative testing of pulsatile impeller total heart and aams nonpulsatile roller as biventricular assist device in pigs, 11A1478
QIAN, LINGXI: Simplified procedure for estimating shaking-induced pore-water pressure dissipation of layered saturated sands (Chinese), 8A535
QIAN, MIN: Testing system for measuring tire impression stress distribution (Chinese), 8A777
QIAN, RJ: Applying strain energy density factor theory to propagation estimating of surface crack in tubular T-joints, 9A744
QIAN, YIN: Anomalous dynamic elastic-plastic response of a Galerkin beam model, 9A180
QIAN, YIXIANG: Boiling point and molar enthalpy of vaporization of fluorint FC-70 $N(C_5F_{11})_3$: Determined by static-sample and DSC methods, 1A1156
QIAN, ZHIXIONG: Nonlocal damage mechanics approach to high-temperature fatigue crack growth, 8A577
QIAN, ZW: Equations of the second order potentials in a boundod solid-space: Bulk and surface waves, 3A174
- Second order harmonics of surface waves in isotropic solids, 4A238
QIANG, SHIZHONG: Expert system for preliminary bridge design (Chinese), 8A341
QIANG, WANG: Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, 6A18
QIAO, H: Fine motion strategries for robotic peg-hole insertion, 7A443
QIAO, L: Thermodynamic analysis on the role of hydrogen in anodic stress corrosion cracking, 3A658
- Tangential loading transportation between roller and flat with modified Coulomb friction: A 3D roll-contact calculation with the FEM, 5A415
QIAO, YM: Impact of n-heptane droplets on a hot surface in low gravity, 3A936
- Boiling of droplets on a hot surface in low gravity, 7A1232
QIAO, YONGFEN: Kane's equations for percussion motion of variable mass nonholonomic mechanical systems, 6A81
QIAO, ZHONG: Theory of response analysis of fuzzy stochastic dynamical systems with a single def, 8A761
QIDWAI, MA: Unified thermodynamic constitutive model for SMA and FE analysis of active metal matrix composites, 11A468
QIN , KAIRONG: Effects of external counterpulsation on the pulse waves in human aorta, 3A1407
QIN, QH: Application of hybrid-Trefftz element approach to transient heat conduction analysis, 3A1122
- Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, 4A564
- Postbuckling analysis of thin plates by a hybrid Trefftz FEM, 5A522
QIN, QING HUA: Coupled torsional-flexural vibration of shaft systems in mechanical engineering - I: FE model, 4A182
- Coupled torsional-flexural vibration of shaft systems in mechanical engineering - II: FE-TM impedance coupling method, 4A183
QIN, QINGHUA: Plane piezoelectric problem of a loaded crack terminating at a material interface, 12A639
QIN, SHENGLI: Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, 7A611
- Problems of nonlinear bending for orthotropic rectangular plate with four clamped edges, 11A511
QIN, SUN: Programming system of static strength reliability analysis for offshore platform structural system (Chinese), 9A905
QIN, TIEHU: Global existence of weak solutions to the boundary value problem for a 3D viscoelastic dynamic system, 11A446
QIN, X: Heat capacity of confined helium very near the lambda point, 7A302
QIN, Y: Nonlinear stability problem for ferromagnetic fluids in a porous medium, 2A1001
QIN, YI: Pressured-assisted injection forging of thick-walled tubes, 1A712
QIN, YW: Determination of residual stresses using large shearing speckle interferometry and the hole drilling method, 2A704
QIN, Z: Studies of thermokinetics in an adiabatic calorimeter - I: Design and testing of an adiabatic automatic calorimeter, 6A1065
QING, GAO: Note on C^1-curved FE, 8A43
QING, JIANG: Compressible materials capable of sustaining axisymmetric shear deformations - Part I: Anti-plane shear of isotropic hyperelastic materials, 1A2
QIPING, WANG: Study on the method for groove design in the helical rolling of steel balls, 7A726
QIU , CHUNTU: Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), 9A636
QIU, CC: Working capability analysis of Stewart platforms, 12A449
QIU, DAHONG: Wave-induced seepage action on cylinder resting on deformable foundation (Chinese), 8A1308
QIU, JIBO: Exact residual modes and their synthesis techiques (Chinese), 10A201
QIU, TAIQING: Thermal radiative properties of liquid metal alloys from measurement data of Hall coefficients and DC resistivities, 12A1252
QIU, TQ: Pulsed laser heating of highly absorbing particles, 3T1140
QIU, X: Reverberation loss in shallow water, 2A222
QIU, XJ: Effects of acoustic excitations on active flutter conirol, 8A224
QIU, ZHIPING: New method for computing the upper and lower bounds on frequencies of structures with interval parameters, 2T151
- Displacement bound estimation for structures with an interval description of uncertain parameters, 7A921
- Bounds of eigenvalues for structures with an interval description of uncertain-but-non-random parameters, 9A242
- Non-probablistic eigenvalue problem for structures with uncertain parameters via interval analysis, 9A247
QIU, ZL: Misalignment effect on the static and dynamic characteristics of hydrodynamic journal bearings, 5A1095
QIU, ZP: Natural frequencies of structures with uncertain but nonrandom parameters, 2A773
QIUSHENG, L: Analysis of free vibrations of high-rise structures, 2A130
QU , S: Optimal trajectory planning for robots under the consideration of stochastic parameters and disturbances, 7A455
QU, FUZHENG: Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), 7A909
QU, L: Properties of paste-rock interfaces and their influence on composite behavior, 4A480
QU, LS: Fault features of large rotating machinery and diagnosis using sensor fusion, 6A705
QU, SHISHENG: Model identification method of vibrating structures from incomplete model information, 6A121
QU, WEILIAN: Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), 4A380
QU, Z: Robust guaranteed cost control of uncertain nonlinear robotic system using mixed minimum time and quadratic performance index, 2T316
- Attentuation of nonlinearly state-dependent uncertainties: Robust control design and its application to robotic manipulators, 8A298
QUABILI, T: Plane strain in granular media, 7T1353
QUACH, CC: Verification tests of automated robotic assembly of space truss structures, 1A923
QUACKENBUSH, TR: Rotor aerodynamic loads computation using a constant vorticity contour free wake model, 2A1028
QUADEER, A: Prediction of error of FE results, 12A28
QUAGLIARELLA, D: Genetic algorithms applied to the aerodynamic design of transonic airfoils, 1T1127
QUAGLIAROLI, TM: Planar measurement of absolute OH concentration distributions in a supersonic combustion tunnel, 2A1189
- Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063
- Single-pulse temperature measurement in turbulent flame using laser-induced O_2 flourescence, 8T1064
QUAN, L: Relative 3D reconstruction using multiple uncalibrated images, 4A773
QUAN, M: Biaxial compression of a thin layer with circular debonding over a substrate, 1A552
QUAN, XIE: Two-component sception model and its application (Chinese), 8A848
QUANXIAN, WANG: Study on the method for groove design in the helical rolling of steel balls, 7A726
QUECEDO, M: Patch test for mesh alignment effects in localized failure, 5A617
QUEEKERS, P: Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, 11A523
QUEEN, EM: Optimal control of a rigid body with dissimilar actuators, 11T329
QUEIROZ, M: Partial state feedback controller for trajectory tracking of rigid-link flexible-joint robots using an observed backstepping approach, 2A315
QUEIROZ, RS: Heat islands influence on the Dispersion of Contaminants by the atmosphere, 7A1387
QUEK, SER-TONG: Stochastic response of offshore platforms by statistical cubicization, 2A789
QUENARD, DA: Modeling drying shrinkage of cement paste and mortar - Part I: Structural models from nanometers to millimeters, 3A487
QUENTIN, G: Nonlinear distortion of finite-amplitude ultrasonic waves investigated by optical heterodyne interferometry, 5A294
QUERE, D: Inertial coating of a fiber, 9A1068
QUERZOLI, G: Recognition of partially overlapped particle images using the Kohonen neural network, 2A1070
QUESADA , P: Frequency content of normal and diabetic plantar pressure profiles: Implications for the selection of transducer sizes, 12A1489
QUI, X: Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, 11A1109
QUI, XIEGANG: Thermal calculation for anti-icer with micro-ejector, 6A1023
QUIGLEY, CJ: Viscohyperelastic FE model for rubber, 4A476
QUILLEN, CB: Numerical simulation of shock-cylinder interactions - Part I: Resolution, 5T216
QUIMBY, HM: Optimization of the manufacturing process of a titanium aluminide metal matrix composite using a viscoplastic constitutive theory, 10A506
QUIMBY, TB: Seismic forces in spherical domes: Membrane solution, 3A1325
QUIN, S: Uncertainty analysis in quantitative risk assessment, 7A928
- Use of stress-strength model in determination of safety factor for pressure vessel design, 7A994
QUINN, BG: Doppler speed and range estimation using frequency and amplitude estimates, 3A294
QUINN, BP: Fillet weld profile measurements, 2T835
QUINN, CJ: Melt rheology of zinc alkali phosphate glasses, 8A868
QUINN, RD: Laser vibrometry measurements of rotating blade vibrations, 5A159
QUINTANILLA, M: Fast quantitative processing of particle image velocimetry photographs by a whole-field filtering technique, 4A1130
QUINTANILLA, R: Qualitative results for the linear theory of thermo-microstretch elastic solids, 4A1227
- Uniqueness of equilibrium solutions in nonlinear theory of elastic mixtures, 6T420
- Spatial decay estimates of Saint-Venant type in generalized thermoelasticity, 7A501
QUINTARD, M: Transport in chemically and mechanically heterogeneous porous media - Part II: Comparison with numerical experiments for slightly compressible single-phase flow, 4T1318
- Transport in chemically and mechanically heterogeneous porous media - Part I: Theoretical developement of region-averaged equations for slightly compressible single-phase flow, 4A1317
QUINTAS, MR: Implicit nonlinear robust control for an electrohydraulic system with uncertainties, 12A425

QUINZANI, LM: Use of coupled birefringence and LDV studies of flow through a planar contraction to test constitutive equations for concentrated polymer solutions, 4A911
QUIRK, JJ: Parallel adaptive grid algorithm for computational shock hydrodynamics, 12A256
QUIROGA-GOODE, G: Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling, 11A1362
QUNJI, XUE: Friction and wear characteristics of P-containing anti-wear and extreme pressure additives in the sliding of steel against aluminum alloy, 3A824
QUORI, F: New computation technique of Glauert's integrals, 2A1017
QURESHI, J: Embedded bar behavior in concrete under combined axial pullout and transverse displacement, 9A913
QURESHI, TQ: Variable-speed capacity control in refrigeration systems, 5A1183
QVALE, B: Waste-heat recovery in batch processes using heat storage, 1A1436

R

RAABE, D: Numerical 3D simulations of the stress fields of dislocations in face-centered cubic crystals, 2A405
- Introduction of a modified linear rule of mixtures for the modeling of the yield strength of heavily wire drawn *in situ* composites, 3A518
RAAD, PE: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
- Dynamics of a gas permeable contact lens during blinking, 12A1478
RABAS, TJ: Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, 1A1252
- Heat-rate improvements obtained by retubing condensers with new, enhanced tube types, 8A1190
RABAUD, M: Instabilities of the upstream meniscus in directional viscous fingering, 10A1170
RABB, R: Fatigue failure of a connecting rod, 9A766
RABBITT, RD: Singular perturbation model of fluid dynamics in the vestibular semicircular canal and ampulla, 7A1408
RABEIH, EMA: Intelligent control of clutch judder and shunt phenomena in vehicle drivelines, 11A145
RABI BALIGA, B: Extensions of tridiagonal and pentadiagonal matrix algorithms, 4A62
RABIER, P: Element separation property and parallel FEMs for the Navier-Stokes equation, 2A13
RABIN, Y: Integrated solar collector storage system based on a salt-hydrate phase-change material, 5A1359
- Thermal analysis of a helical heat exchanger for ground thermal energy storage in arid zones, 6A1147
RABINOVICH, FN: Concretes with Dispersed Reinforcement - Russian Translations Series, 113, 12N21
RABINOVICH, VA: Moist Gases: Thermodynamic Properties, 9N28
RABINOWICZ, E: Thermal activation in boundary lubricated friction, 12A896
RABINOWITZ, N: Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, 6A1287
RABINOWITZ, P: Numerical solution of the generalized Prandtl equation using variation-diminishing splines, 3A996
RABITZ, H: Interior energy focusing within an elasto-plastic material, 8A436
RABOUD, D: Segmental approach for large 3D rod deformations, 6A466
RABOUD, DW: Multiple 3D equilibrium solutions for cantilever beams loaded by dead tip and uniform distributed loads, 11A109
RACE, A: Loading of the two bundles of the posterior cruciate ligament: An analysis of bundle function in A-P drawer, 12A1448
RACHEV, A: Theoretical study of dynamics of arterial wall remodeling in response to changes in blood pressure, 8A1429
RACHINSKII, D: Multivalent guiding functions for forced oscillation problems, 4T98
RACHOOR, H: Modeling of dynamic friction in lubricated line contacts for precise motion control, 8A1037
RACHOWICZ, W: Overlapping domain decomposition preconditioner for an anisotropic h-adaptive FEM, 4A38
RACHWALSKA, M: Equilibrium and nonequilibrium phase transitions studied by adiabatic calorimetry, 5A1123
RACK, HJ: Dry sliding wear of discontinuously reinforced aluminum composites: Review and discussion, 4A832
RACKE, R: Smoothing properties, decay, and global existence of solutions to nonlinear coupled systems of thermoelastic type, 3A1175
RACKOVIC, M: Construction of a translator for robot-programming languages, 9A124
RACKWITZ, R: Reliability and Optimization of Structural Systems, 10N24
- Continuum sensitivity method for reliability-based structural design and optimization, 3A754
- Response moments of an elastic beam subjected to Poissonian moving loads, 6A125
RACZKA, JS: Influence of the bainitic microstructure on wear resistance of the ductile cast iron (Polish), 6A797
RADAJ, D: Review of fatigue strength assessment of nonwelded and welded structures based on local parameters, 12A718
RADCLIFFE, RA: Matching inviscid-boundary-layer flowfields, 6A956
RADE, L: Mathematics Handbook for Science and Engineering, 3N49
RADEMACHER, FJC: Application of vibratory disk feeders for silos, 12A1336
RADESPIEL, R: Accurate flux vector splitting for shocks and shear layers, 2T188
- Flap efficiency and heating of a winged re-entry vehicle, 10A316
RADHA, C: High and low frequency small amplitude disturbances in a perfectly conducting and radiating gas, 4A310
- Strong converging shock waves in a radiating gas, 5A215
RADHAKRISHNAN, K: Fully implicit time accurate method for hypersonic combustion: Application to shock-induced combustion instability, 7A1081
RADI, B: Decomposition methods in the analysis of repetitive structures, 5A725
RADICE, G: Line-of-sight guidance for descent to a minor solar system body, 11T310
RADKOWSKI, S: Low-energy components of vibroacoustic signal as the basis for diagnosis of defect formation, 3A846
RADLOVIC, B: Efficient procedure for evaluation of sound energy density in a rectangular room, 11T260
RADMORE, PM: Alternative approaches to Melnikov analysis for forced oscillators, 4A116
RADOMSKI, A: Object oriented software methodology: A case study of systems for dam monitoring, state diagnosis and visualization, 6A62
RADOMSKI, M: Kill probability in antiaircraft firing theory, 5T255
RADON, U: Proposal of a mathematical model of compressed bars for analysis of limit bearing capacity of true bar structures (Polish), 6A491
- Nonlinear analysis of imperfect steel space trusses, 9A623
RADWAN, AE: Magnetohydrodynamic instability of an annular gas jet of double perturbed interfaces, 12A1158
RADWAN, NK: Light transfer problem in turbid media with surface reflectivity, 10A295
- Light transfer problem in turbid media with surface reflectivity, 11A177
RADWANSKA, M: Stability of Structures by FEM, 2R22
RADY, MA: Natural convection during melting and solidification of pure metals in a cavity, 6A1085
RADZISZEWSKI, E: Parameter of nonlinearity B/A in saccharide solutions (French), 11A240
RAFALSKI, L: Designing of composition of bentonite-cement slurry for cut-off walls constructed by the monophase method, 9A1429
- Rheological properties of fresh bentonite-cement slurries modified by selected sodium salts, 9A946
RAFEEYAN, M: Buckling of truncated conical shells based on improved stability equations, 2A499
RAFFEL, M: Experimental and numerical investigations of dynamic stall on a pitching airfoil, 10A1200
RAFTOPOULOS, DD: Evaluation of stress intensity factors in metals by photoelastic coatings and caustics, 9A861
RAFTOYIANNIS, IG: Finite elements for three-mode interaction in buckling analysis, 7A680
RAGAB, AM: Nonlinear FE analysis of horizontal elastomerics of revolution, 7A23
RAGAB, SA: Large-eddy simulation of the shear-driven cavity flow using dynamic modeling, 12T1137
RAGEN, MA: F117-PW-100 hybrid ball bearing ceramic technology insertion, 10A1010
RAGGI, M: Fatigue behavior of mechanically fastened joints in composite materials, 4A766
RAGHAVAN, SR: Shear-induced microstructural changes in flocculated suspensions of fumed silica, 4A900
RAGHUNANDAN, BN: Jet interaction in liquid-liquid coaxial injectors, 12A1133
RAGHUNATHAN, MD: Prototype test on x-bracing panels using cold-formed lipped angles, 7A957
RAGHUNATHAN, S: Methodology for Wells turbine design for wave energy conversion, 1A1432
- Wells air turbine for wave energy conversion, 2A1042
- Computed effects of heat transfer on the transonic flow over an aerofoil, 4A988
RAGHUPATHY, VP: Analysis of temperature distribution during circumferential welding of cylindrical and spherical components using the FEM, 8A844
RAGHURAM, PV: High precision thickness-stretch deformation element for the analysis of symmetrical laminates under extension, 1A37
RAGLAND, KW: Ash deposition in a wood-fired gas turbine, 5A1029
RAHIMIFARD, S: Methodology to develop EXPRESS data models, 7T478
RAHLI, O: Experimental study of convective boiling in a porous medium: Temperature field analysis, 8T1151
RAHMAN, M: Water Waves: Relating Modern Theory to Advanced Engineering Practice - Institute of Math and Its Applications Monograph Series, 4R5
- Advances in Fluid Mechanics - Proc of 1st Int Conf, New Orleans, June 1996. Advances in Fluid Mechanics series, Vol 9, 11N42
- Potential Flow of Fluids - Advances in Fluid Mechanics Series, vol 6, 1N32
- Time-harmonic body force loading of a mode-I penny-shaped crack, 1A828
- Fundamental axisymmetric singular solutions of elastodynamics, 1A116
- Note on the matrix analysis of dual reciprocity BEM, 2A43
- Time-harmonic body force loading of a mode-II penny-shaped crack in an elastic solid, 7A813
- Using neural network for tool condition monitoring based on wavelet decomposition, 8A799
RAHMAN, MK: Acoustic radiation efficiency of a rectangular plate with different boundary conditions, 3A246
- Optimization of panel forms for improvement in ship structures, 12A822
RAHMAN, MM: Numerical study of natural convection from a vertical surface due to combined buoyancies, 3A1193
RAHMAN, S: Stochastic model for elastic-plastic fracture analysis of circumferential through-wall-cracked pipes subject to bending, 2A637
RAHMAT-ABADI, KF: Convective heat transfer in rotating ribbed tubes, 11A1142
RAHMOUNE, M: Application of mechanical waves induced by piezofilms to marine fouling protection of oceanographic sensors, 2A1261
- Application of mechanical waves induced by piezofilms to marine fouling prevention, 9A980
RAHN, CD: Parametric control of conservative mechanical systems, 12A378
- Axial force stabilization of transverse vibration in pinned and clamped beams, 12A142
RAHN, M: Decomposition algorithm for performance optimization of a launch vehicle, 10A942
RAIBERT, M: Robust sliding-mode control applied to a 5-link biped robot, 7A427
RAICH, MR: Forced convection steam condensation experiments within thin porous coatings, 12A1238
RAICHURA, RC: Nomenclature for exergy analysis, 4A1134
RAICONI , G: Cooperative neural field for the path planning of a robot arm, 7A454
RAIKHER, VL: Fatigue damage calculation for cyclic and random loading with nonzero mean value, 10T738
RAIKO, H: Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, 3A1358
RAIKOVA, R: Model of the flexion-extension motion in the elbow joint: Some problems concerning muscle forces modeling and computation, 10A1467
RAIMUNDO, AM: Analysis of the performances of heat exchangers used in hot-water stores, 11A1215
RAINER, JH: Dynamic properties of a circuit breaker with friction-based seismic dampers, 11A1403
- Control of traffic-induced vibration in buildings using vehicle suspension systems, 12A198
RAINSBERGER, R: Experimental and computational investigation of flow in a radial inlet of an industrial pipeline centrifugal compressor, 11A1052
RAINWATER, JC: Density dependence of fluid properties and non-Newtonian flows: The Weissenberg effect, 4A879
RAIRDEN, RL: Vehicle glow measurements on space transportation system flight 62, 10A1114
RAITHBY, GD: Reordering the absorption coefficient within the wide band for predicting gaseous radiant exchange, 11A1209
RAITSIN, LM: Comparison of mechanical energy expenditure of joint moments and muscle forces during human locomotion, 8A1420
RAITT, WJ: VLF wave experiments in space using a modulated electron beam, 1A277
RAJAGOPAL, KR: Inelastic behavior of solids - Part I: Twinning, 3A458
- Unsteady motions of fluids of second grade, 3A961
- Start-up flows of second grade fluids in domains with one finite dimension, 5A882
- Exact solutions for some simple flows of an Oldroyd-B fluid, 5A888
- Single integral finite strain viscoelastic model of ligaments and tendons, 11A1459
RAJAGOPALAN, D: Sedimentation of a sphere through an elastic fluid - Part 1: Steady motion, 4A21
RAJAGOPALAN, HS: Reliability based structural analysis and optimization in X window environment, 11A734
RAJAGOPALAN, S: Temperature dependence of the ultrasonic Gruneisen parameter and ultrasonic attenuation in pure germanium, 3A245
- Velocity and spanwise vorticity measurements in an excited mixing layer of a plane jet, 9T1169
- Scaling of mean square vorticity in turbulent flows, 9T1184
RAJAKUMAR, C: Boundary element-finite element coupled eigenanalysis of fluid-structure systems, 10A320
RAJALINGHAM, C: Natural vibration of a cavity backed rectangular plate using a receptor-ejector system model, 5A279
- Vibration of rectangular plates using plate characteristic functions as shape functions in the Rayleigh-Ritz method, 12A171
RAJAMAKI, M: Six-equation SFAV model for two-phase flow with correct propagating velocities of disturbances, 5A925
RAJAMAKI, P: Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, 3A1358
RAJAMANI, R: Convective heat transfer in axisymmetric porous bodies, 4A1167
RAJAMANOHAR, D: Preliminary studies on dual-mode combustion ramjet using petal nozzle, 8A1293
RAJAN, K: Analysis of splitting failures during the drawing of tungsten wire, 2A537
RAJAN, SD: Sizing, shape, and topology design optimization of trusses using genetic algorithms, 2A785
- Temporal evolution of under ice reflectivity, 7A332
RAJANNA, K: X-ray fractography studies on austenitic stainless steels, 10A736
RAJAPAKSE, RKND: Indirect boundary integral equation method for poroelasticity, 2A1226
- Traction and contact problems for an anisotropic medium with a cylindrical borehole, 9A484
RAJAPAKSE, YDS: High Strain Rate Effects on Polymer, Metal and Ceramic Matrix Composites, and Other Advanced Materials, AD-Vol 48 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N16
- Dynamic Response and Behavior of Composites, AD-Vol 46 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N15
RAJARATNAM, N: Energy loss at drops, 1T973
- Effect of baffles on submerged flows, 1A974
- Mixing region of circular turbulent wall jets in cross flows, 2T964
RAJASEKARAN, S: Prestack processing of land data with complex topography, 3A1293
- Artificial neural network and genetic algorithm for the design optimization of industrial roofs: A comparison, 4A788
- Constitutive modeling of concrete using a new failure criterion, 5A706
RAJASEKERA, JR: New approach to tolerance allocation in design cost analysis, 2A341
RAJASEKHARA NAIDU, N: Stability behavior of uniform columns on a class of two parameter elastic foundation, 1A647
- Free vibration and stability behavior of uniform beams and columns on nonlinear elastic foundation, 5A147
- Thermal buckling of circular plates with localized axisymmetric damages, 12A1276
RAJENDRAN, AM: Constitutive Laws: Theory, Experiments, and Numerical Implementation - Proc of Symp on Constitutive Laws, Mauna Lani HI, July-Aug 1995, 11N4
RAJENDRAN, S: Global bifurcation of a three-hinged rod subject to a kind of follower force, 4A582
RAJIC, N: Thermomechanical technique for measuring residual stress, 9T1296
RAJIV, EP: Tribological properties of cobalt-partially stabilized zirconia (PSZ) composites in dry sliding conditions, 4A845
RAJIYAH, H: Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, 10A1400
RAJU, IS: Efficient BEM for computing accurate stresses in 2D anisotropic problems, 8A400
- Strain energy release rate formulae for skin-stiffener debond modeled with plate elements, 10A804
RAJU, KN: Elastoplastic contact stress analysis of joints subjected to cyclic loading, 12A990
RAJU, PK: Innovative Processing and Characterization of Composite Materials, NCA-Vol 20-AMD-Vol 211 - Proc from Int Mech Eng Congress and Expo, Nov 12-17, 1995, San Francisco, CA, 4N16
RAJURKAR, KP: Micro-mechanics investigation on the bonding stength of heteroepitaxical film or strip on a hard substrate, 3A873
- Tool temperatures and crack development in milling cutters, 3A645
- Cryogenic PCBN turning of ceramic (Si_3N_4), 12A704
RAK, J: Theoretical methods in thermodynamics of condensed phases, 4A1137
- Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, 4A1138
RAKESTRAW, MD: Cracked lap shear specimen revisited: A closed-form solution, 9A784

RAKHEJA, S: Influence of articulation damping on the yaw and lateral dynamic response of the vehicle, 3A373
- Properties of an interconnected hydro-pneumatic suspension system, 6A162
- Study of the modal behavior of the human hand-arm system, 9T1454
RAKICEVIC, Z: Energy absorbing elements in regular and composite steel frame structures, 1A1395
RAKOPOULOS, CD: Study of the steady and transient temperature field and heat flow in the combustion chamber components of a medium speed diesel engine using FE analyses, 11A1188
RAKOTOMALALA, N: Coupling in a model porous medium geometry: Effect of fluid contact area, 8A1309
RAKOTOMANANA, L: Biomechanics of the human patella during passive knee flexion, 2A1284
RAKOWSKI, W: Plasma treatment of wool: From lab curiosity to industrial reality, 10A722
RALL, DLA: Optical radiations from interaction of effluent gases with the low-orbital atmosphere, 12A1306
RALLISON, JM: Split Lagrangian-Eulerian method for simulating transient viscoelastic flows, 3A456
RALPH, B: Reclassification of the die-filling stages in pressure die-casting processes, 12A698
RAM, YM: Dualities in vibrating rods and beams: Continuous and discrete models, 1A128
RAMACHANDRA RAO, A: Peristaltic transport of two immiscible viscous fluids in a circular tube, 2A956
RAMACHANDRA, LS: Transient response of sandwich plates in contact with water, 12A169
RAMACHANDRAN, G: Characterization of morphological changes in agglomerates subject to condensation and evaporation using multiple fractal dimensions, 2A1205
RAMACHANDRAN, PA: Orthogonal collocation in the nonconforming BEM, 2T44
- Quasilinear BEM for nonlinear Poisson type problems, 3A48
RAMACHANDRAN, PV: Thermal erosion of magnetoplasmadynamic thruster cathode, 8T1185
RAMACHARYULU, NCP: Peristaltic transport of a viscoelastic fluid: A long wavelength approximation, 9A303
RAMADAN, T: Analytical model for shear-link behavior, 3A1331
RAMADHYANI, S: Enhancement of natural convection heat transfer from an array of discrete heat sources, 4A1147
- Conjugate natural convection from an array of protruding heat sources, 6A1081
- Conjugate natural convection from an array of discrete heat sources - Part 1: 2D and 3D model validation, 6A1082
- Conjugate natural convection from an array of discrete heat sources - Part 2: A numerical parametric study, 6A1083
- Experimental and theoretical studies of mist jet impingement cooling, 11A1099
RAMAEKERS, JAH: Measurement of friction and material flow-stress by a plane-strain compression tribometer, 12A947
RAMAKRISHNA, M: Comparison of high-resolution schemes applied to flows containing strong shocks, 4A48
RAMAKRISHNA, S: Energy absorption characteristics of knitted fabric reinforced epoxy composite tubes, 2A441
- Crushing mechanism of carbon fiber-PEEK composite tubes, 2A417
- Scaling effects in the energy absorption of carbon-fiber-PEEK composite tubes, 6A425
- Effect of testing temperature on the energy absorption behavior of carbon fiber-PEEK composite tubes, 7A555
- Effect of fiber orientation on the energy absorption capability of carbon fiber-PEEK composite tubes, 12A533
RAMAKRISHNAN, B: General loss function based optimization procedure for robust design, 10A1024
RAMAKRISHNAN, N: Analytical study on strengthening of particulate reinforced metal matrix composites, 5A463
RAMALINGAM, K: Magnetohydrodynamic braking, 5A981
RAMALINGAM, S: Film-substrate interface stresses and their role in the tribological performance of surface coatings, 3A835
RAMALINGESWARA RAO, S: Dynamic response of tapered composite beams using higher order shear deformation theory, 4A152
RAMAMOHAN, TR: Chaotic rheological parameters of periodically forced suspensions of slender rods in simple shear flow, 4A883
- Chaotic dynamics of periodically forced spheroids in simple shear flow with potential application to particle separation, 4A876
RAMAMONJIARISOA, A: Kinematics of short waves in the presence of surface flows of larger scales, 2A175
RAMAMOORTHY, B: Measurement of surface finish using an optical diffraction technique, 12A948
RAMAMURTHI, K: Experimental study of liquid sheets formed in coaxial swirl injectors, 4A956
- Flow visualization experiments on free draining of a rotating column of liquid using nets and tufts, 12T1086
RAMAMURTHY, AS: Numerical modeling of ice jam resistance to main channel flow, 4A928
RAMAMURTHY, TS: Elastoplastic contact stress analysis of joints subjected to cyclic loading, 12A990
- Analysis of a cracked lug loaded by an interference fit pin, 12A734
- Generalized modified crack closure integral and its application to interface crack problems, 12A777
- Thermomechanical generalization of partial contact in pin joints, 12A993
RAMAMURTI, R: Parallel implicit incompressible flow solver using unstructured meshes, 8A911
- Load balancing algorithm for unstructured grids, 9T127
RAMAMURTI, V: Role of Rayleigh damping, 1A122
RAMAN, A: Slow-transition across instabilities in nonlinear dissipative systems, 11A97
RAMAN, G: High-Speed Jet Flows - 1995 ASME/JSME Fluids Eng Conf, 2N40
- Resonant interaction of a linear array of supersonic rectangular jets: An experimental study, 8A917
- Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system, 10A1108
RAMAN, N: Effect of structural features on erosion resistance of cast irons, 10T987
RAMAN, SGS: Effect of prior cold work on the room-temperature low-cycle fatigue behavior of AISI 304LN stainless steel, 9A753
RAMANAN, N: Algorithm for simulation of steady free surface flows, 6A902
RAMANI, A: Two-step component-mode synthesis for the eigensolution of large systems, 12A193
RAMANI, K: Finite element analysis of effective thermal conductivity of filled polymeric composites, 2A17
RAMANJAPPA, T: Ultrasonic studies of thermodynamic fluctuations in (2,2,2-trifluoroethan-1-ol + benzene), (benzene + dimethylsulfoxide) and (2,2,2-trifluoroethan-1-ol + dimethylsulfoxide) at 298.15K, 2A185
RAMAPPAN, V: Simulation of the influence of manufacturing quality on reliability of vias, 3A419
RAMAPRIAN, BR: Surface pressure measurements on a pitching swept wing in a water channel, 3A989
RAMASAMY, JV: Artificial neural network and genetic algorithm for the design optimization of industrial roofs: A comparison, 4A788
RAMASWAMY, A: Study of layering procedures in FE analysis of RC flexural and torsional elements, 6A756
RAMASWAMY, M: Free shear-layer interaction with an expansion-compression wave pair, 8A966
RAMESH BABU, N: Theoretical model for prediction of groove geometry on laser dressed grinding wheel surface, 3A631
RAMESH, G: Post-buckling analysis of structures by three-parameter constrained solution techniques, 12A25
RAMESH, J: Stability of rough journal bearings using nonlinear transient method, 5A1085
RAMESH, K: Automatic ordering of isochromatic fringes: A new methodology, 2A684
- Plotting of fringe contours from FE results, 3A33
- Design procedure for evaluating stability of turbomachinery supported on squeeze film dampers, 5T1025
- Classification of crack-tip isochromatics in orthotropic composites, 5A637
- Effect of axially grooved oil seals on the leakage flow and stability of a centrifugal compressor, 8A821
RAMESH, N: Numerical analysis of a cavity radiator with mutual interaction, 11A1218
RAMESH, P: Adaptive mesh refinement of the BEM for potential problems by using mesh sensitivities as error indicators, 5A42
RAMESH, S: Measurement of surface finish using an optical diffraction technique, 12A948
RAMESH, TC: Influence of constrained damping layer on the resonant response of orthotropic cylindrical shells, 1A164
RAMESHT, MH: FAOFERRS: A computer program for the analysis of ferrocement in flexure, 8A748
RAMIREZ, E: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769
RAMIREZ, JA: Strength of struts and nodes in strut-tie model, 6A755
RAMIREZ, MR: Mapping algorithm for domain decomposition in massively parallel FE analysis, 2A23
- Dominant failure modes for structures with stochastic load processes, 3A793
- Reanalysis of rigid frame structures by the virtual distortion method, 11A733
RAMIREZ, SA: Cancellous bone Young's modulus variation within the vertebral body of a ligamentous lumbar-spine: Application of bone adaptive remodeling concepts, 5A1363
RAMJEE, V: Prediction of aerofoil wake subjected to the effects of curvature and pressure gradient, 6A1024
RAMM, AG: Approximate inverse geophysical scattering on a small body, 7T67
RAMM, E: Adaptive topology optimization, 3A750
RAMMER, DR: Design of glued laminated timber columns, 6A759
RAMMERSTORFER, FG: Engineering Mechanics of Fibre Reinforced Polymers and Composite Structures, 2N27
- Note on calibration of ductile failure damage indicators, 8A632
RAMMOHAN RAO, V: Experimental study of free convection and radiation in horizontal fin arrays, 5A1174
- Numerical study of steady laminar fully developed fluid flow and heat transfer in rectangular and elliptical ducts rotating about a parallel axis, 5A1145
- Efficient evaluation of diffuse view factors for radiation, 7A1254
RAMODANOV, SM: Three-dimensional motion of a solid in an ideal fluid under the action of a follower load, 6T91
RAMON, H: Modeling procedure for linearized motions of tree structured multibodies - I: Derivation of the equations of motion, 8A73
- Modeling procedure for linearized motions of tree structured multibodies - 2: Design of an active spray boom suspension on a spraying-machine, 8A74
- Design of a cascade controller for a flexible spray boom, 11A322
RAMOS, G: Computer aided design of prestressed concrete highway bridges, 12A845
RAMOS, JI: Effects of fluctuating body forces on annular liquid jets, 3A898
- Fluid dynamics of slender, thin, annular liquid jets, 3A955
- Linearized θ-methods - I: Ordinary differential equations, 9A96
- Planar liquid sheets at low Reynolds numbers, 11A893
- Upward and downward annular liquid jets: Conservation properties, singularities, and numerical errors, 11A872
- Piecewise-linearized method for ordinary differential equations: Two-point boundary-value problems, 11A26
RAMOS, NRSS: Free vibrations of cylindrical tanks, 2A192
RAMOS-MARTINEZ, J: Surface-wave dispersion analysis in Mexico City, 2A1242
RAMPAZZO, F: Dynamic programming for nonlinear systems driven by ordinary and impulsive controls, 7A380
RAMU, SA: Damage assessment of composite structures: A fuzzy logic integrated neural network approach, 1A774
RAMULU, M: Orthogonal cutting mechanisms of graphite-epoxy composite - Part I: Unidirectional laminate, 2A543
- Orthogonal cutting mechanisms of graphite-epoxy composite - Part II: Multi-directional laminate, 2A544
- Chip formation in orthogonal trimming of graphite-epoxy composite, 6A570
- Study of kerf characteristics in abrasive waterjet machining of graphite-epoxy composite, 10A714
- Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics, 10A575
RAN, L: Torsional vibrations in electrical induction motor drives during start-up, 10A233
RANACHOWSKI, Z: Application of a neural network to classify the acoustic emission waveforms emitted by the concrete under thermal stress, 9A388
RANCE, JM: Analysis of the fatigue failure of toe pieces forming part of a header in a descaling system in a hot strip rolling mill, 10A741
RAND, JA: Importance of soft-tissue integrity on biomechanical studies of the patella after TKA, 9A1436
RAND, O: Minimization of thermoelastic deformation in space structures undergoing periodic motion, 1A272
- Response and eigenfrequencies of rotating composite cylindrical shells, 10A194
RAND, RH: Nonlinear control of dual-spin spacecraft during despin through precession phase lock, 6A296
RANDALL, GE: Lateral variation in crustal structure of the Northern Tibetan plateau inferred from teleseismic receiver functions, 6A1229
RANDALL, RB: Determination of frequency response functions from response measurements - II: Regeneration of frequency response functions from poles and zeros, 12A325
- Determination of frequency response functions from response measurements - I: Extraction of poles and zeros from response cepstra, 12A324
RANDALL, RJ: Electrorheological fluid vibration damper, 1A120
RANDEZ, L: Iterative schemes for three-stage implicit Runge-Kutta methods, 2A38
- Global error estimation with adaptive explicit Runge-Kutta methods, 6A34
RANDIN, VV: Gas-liquid bubbly flow in vertical pipes, 12A1087
RANDLETT, MR: Advanced micro-fin tubes for evaporation, 8A1144
- Advanced micro-fin tubes for condensation, 8A1141
RANDOLPH, MF: Profile and frictional capacity of embedded anchor chains, 3A582
- Simple design tools for pile raft foundations, 12A653
RANDOLPH, TW: Computation of eigenvalues and eigenvectors of nonclassically damped systems, 2A125
RANDRUP-THOMSEN, S: Empirical stochastic silo load model - III: Relisbility applications, 1A932
- Empirical stochastic silo load model - II: Data analysis, 1A931
RANE, VC: Studies on a recirculating fluidized-bed incinerator-cold model, 10A1420
- Solids circulation in a recirculating fluidized bed under sticky conditions, 11A1330
RANGAN, BV: Studies on concrete slabs with stud shear reinforcement in vicinity of edge and corner columns, 3A787
RANGANATH, M: Study of pore pressures induced in laboratory dynamic consolidation, 8A531
RANGANATH, S: Steady state creep behavior of particulate-reinforced titanium matrix composites, 8A412
RANGANATHAN, R: Reliability based optimal design of reinforced concrete frames, 1A878
RANGANATHAN, S: Analysis of transport phenomena governing interfacial bonding and void dynamics during thermoplastic tow-placement, 8A1106
RANGAYYAN, RM: Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363
RANGEL, RH: Vaporization of dilating non-ideal binary droplets with radiation absorption, 3A1095
- Numerical solution of the inviscid stagnation-flow solidification problem, 4A1208
- Inviscid stagnation-flow solidification problem, 8A1169
RANGELOV, N: Effective stiffness of slender steel sections for deflection calculations, 10A630
RANJITH, K: Asymptotic and FE analyses of mode III dynamic crack growth at a ductile-brittle interface, 12A764
RANK, E: hp-version FEs for geometrically nonlinear problems, 4A32
RANKIN, CC: Computation of membrane and bending stress intensity factors for thin, cracked plates, 3A681
RANNACHER, R: Pointwise superconvergence of the streamline diffusion FEM, 5A30
- Artificial boundaries and flux and pressure conditions for the incompressible Navier-Stokes equations, 8A906
RANSOM, JB: Coupled analysis method for structures with independently modeled FE subdomains, 4A563
RANTALA, J: Amplitude-modulated lock-in vibrothermography for NDE of polymers and composites, 10A859
RANTZER, A: Kalman-Yakubovich-Popov lemma, 12T365
RANZI, E: Wide-range modeling study of n-heptane oxidation, 1A1337
RAO , KSN: Static analysis of a long and thick orthotropic circular cylindrical shell of revolution, 1A624
RAO, BN: Nonuniqueness of the MHD flow of a viscoelastic fluid past a stretching sheet, 3A981
- Flow of a fluid of second grade over a stretching sheet, 12A1009
RAO, DP: Theoretical performance of a solar pond with enhanced ground energy storage, 11A1429
RAO, GV: Vibrations of initially stressed uniform beams on a two-parameter elastic foundation, 2A124
- Stability of laminated composite plates subjected to various types of in-plane loadings, 4A575
RAO, HS: Finite element analysis of free surface flow through gates, 8A26
RAO, JS: Determination of blade stresses under constant speed and transient conditions with nonlinear damping, 10A310
RAO, KBS: Comparative study of tensile flow parameters in forged and rolled 9Cr-1Mo steel, 9A509
RAO, KJ: Elastic properties of sodium borovanadate glasses, 8A396
RAO, KP: Neural network approach to flow stress evaluation in hot deformation, 3A389
RAO, KR: International Pressure Vessels and Piping Codes and Standards - Current Applications, Volume 1 - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N43
RAO, KT: Two dimensional Stokes flows with slip-stick boundary conditions, 2T877
RAO, MM: ELAFINT: A mixed Eulerian-Lagrangian method for fluid flows with complex and moving boundaries, 10A1082
RAO, P PRASAD: Effect of overstressing on fatigue behavior of austempered ductile iron, 1A752
RAO, PH: Acoustic gyrotropic tensor in quasicrystals, 9A367

RAO, PS: Prediction of burn rate of magnesium-sodium nitrate propellant, 5A1260
RAO, RB: Prediction of burn rate of magnesium-sodium nitrate propellant, 5A1260
RAO, RMVGK: Low velocity impact fatigue studies on glass epoxy composite laminates with varied material and test parameters: Effect of incident energy and fiber volume fraction, 4A524
RAO, SHIGUO: Dynamic elastic-plastic FEM analysis of a fracture specimen under plane stress state, 2A627
RAO, SS: Engineering Optimization: Theory and Practice, Third Edition, 9N34
- Parallel processing in optimal structural design using simulated annealing, 4A794
- Fuzzy FE approach for the anlaysis of imprecisely defined systems, 4A6
- Dynamic load analysis of spur gears using a new tooth profile, 8A805
- General loss function based optimization procedure for robust design, 10A1024
RAO, VB: Selection of a suitable wall pressure spectrum model for estimating flow-induced noise in sonar applications, 1A299
RAO, YAN-FEI: Study on two-phase flow instability in parallel multi-channels, 7A1116
RAOOF, M: Prediction of peeling failure of reinforced concrete beams with externally bonded steel plates, 2A760
- Application of nonlinear finite strip technique to concrete deep beams, 4A809
RAOUF, RA: Nonlinear dynamics of unidirectional, fiber-reinforced tori, 8A776
RAOUS, M: Contact Mechanics, 7N21
- Formulation and approximation of quasistatic frictional contact, 12A945
RAPARELLI, T: Kinematic analysis of a gearless articulated speed reducer, 2T65
RAPER, RL: Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, 2A792
RAPOPORT, L: Model of brittle-dominated wear due to delayed fracture: Vortical crack growth, 3A646
RAPPITSCH, G: Computer simulation of convective diffusion processes in large arteries, 6A1341
RASHEEDUZQFAR: Influence of some parameters relevant to the Arabain Gulf environment on corrosion of reinforcing steel in concrete, 2A594
RASHEEDUZZAFAR,: Effect of temperature and salt contamination on carbonation of cements, 11A469
RASHID, MM: Deformation extrapolation and initial predictors in large-deformation FE analysis, 1A16
RASHID, YR: Probabilistic evaluation of concrete containment capacity for beyond design basis internal pressures, 2A1269
RASHIDI, M: Experimental analysis of pore-scale flow and transport in porous media, 8A1325
RASHIDNIA, N: High data density temperature measurement for quasi steady-state flows, 12A1199
RASMUSSEN, H: Theoretical analysis of an airbag crash sensor, 5A339
RASOLOFOSAON, PNJ: Experimental results on bulk waves and Rayleigh waves in slate, 6A187
- Three-component recording of ultrasonic transient vibration by optical heterodyne interferometry, 7A891
RASPET, R: Experimental study of a thermoacoustic termination of a traveling-wave tube, 1A300
- Sonic boom propagation through a realistic turbulent atmosphere, 5A265
- Surface impedance of grounds with exponential porosity profiles, 6A250
- Investigation of parametric drive of a longitudinal gas-filled resonance tube, 7A324
- Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers, 7A345
RASPO, I: Spectral multidomain technique for the computation of the Czochralski melt configuration, 6A1103
RASS, L: Factorial design approach to investigate the effect of geometry in drill string screw connectors, 1A947
RASSAMAKIN, BM: Transient regimes in heat pipes with melting sublimation, 10A1322
RASSEM, M: Site effects on the seismic response of a suspension bridge, 9A1390
RASTOGI, N: Analysis of an internally pressurized orthogonally stiffened cylindrical shell with an asymmetrical section ring, 8A496
RASTORGUEVA, NM: Combined heat transfer in disperse systems with particles undergoing a metal-insulator transition, 5A1173
RATCLIFFE, A: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371
- Determination of collagen-proteoglycan interactions *in vitro*, 10A1475
RATH , HJ: Flow induced by an asymmetrically placed disk rotating coaxially inside a cylindrical casing, 5A883
RATH, HJ: Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, 2A931
- Existence of Taylor vortices and wide-gap instabilities in spherical Couette flow, 2A975
- Investigation of 3D thermocapillary convection in a cubic container by a multi-grid method, 4A1151
- Two stage ignition of a n-heptane isolated droplets, 5A1213
RATHINAM, P: Development of hybrid method coupling moire interferometry and FE analysis, 12A786
RATHOD, HT: Integration of polynomials over linear polyhedra in Euclidean 3D space, 4A83
- Integration of polynomials over an arbitrary tetrahedron in Euclidean 3D space, 7A38
RATHSFELD, A: Error estimates and extrapolation for the numerical solution of Mellin convolution equations, 9A111
RATIU, MD: Enhancement of pressurizer safety valve operability by seating design improvement, 5A849
- Qualification of diesel generator exhaust carbon steel piping to intermittent elevated temperatures, 7A995
- Pump and valve fastener serviceability in PWR nuclear facilities, 7A1391
RATKJE, SK: Variational principle for entropy in electrochemical transport phenomena, 10A1356
RATKO, P: Dynamic stability of viscoelastic Rayleigh-type beams subjected to random excitations, 1A129
RATKO, S: Determination of optimum dimensions of lattice structure cross-sections, 1A865
RATLIFF, JM: Single-event upset effects on the Clementine solid-state data recorder, 5A752
- Clementine dosimetry, 5A741
RAUCENT, B: Minimal dynamic characterization of tree-like multibody systems, 7A90
- Conditions for initiating the translation of a rigid cylinder in a tube, 12A878
RAUCH, J: Absorbing boundary conditions for diffusion equations, 1A1299
RAUDENSKY, M: Genetic algorithm in solution of inverse heat conduction problems, 4A1211
RAUDKIVI, AJ: Effects of foundation geometry on bridge pier scour, 9A1053
RAUENZAHN, RM: Spectral transport model for turbulence, 7A1132
RAUH, A: Nonlinear stability analysis of plane Poiseuille flow by normal forms, 2A972
RAUPACH, M: Investigations on the influence of oxygen on corrosion of steel in concrete - Part I, 10A896
- Investigations on the influence of oxygen on corrosion of steel in concrete - Part 2, 11A756
RAVALARD, Y: Extension of classical modal reanalysis algorithms: The improvement of initial models, 3A112
RAVANI, B: 50th Anniversary of the Design Engineering Division, 1N20
- Computational Kinematics '95 - Proc of 2nd Workshop on Computational Kinematics, Sept 4-6, 1995, Sophia Antipolis, France, 3N8
RAVASOO, A: Ultrasonic nondestructive evaluation of inhomogeneous plane strain in elastic medium, 6A696
- Nonlinear viscoelastic behavior of nylon fiber, 11A439
RAVEH, D: Fictitious mass element in structural dynamics, 8A162
- Ground modal tests of space-structure components using boundary masses, 10A946
RAVENSBERGEN, J: Merging flows in an arterial confluence: The vertebro-basilar junction, 6A1347
- Influence of the angle of confluence on the flow in a vertebro-basilar junction model, 6T1346
RAVI, D: Acoustic emission in dynamic compression and its relevance to tribology, 4T664
RAVI, MS: Dynamic pole assignment and Schubert calculus, 10T425
RAVI, SSA: Reanalysis of plates modified by free damping layer treatment, 4A171
RAVI-CHANDAR, K: Local fracture and crack growth behavior in a particulate composite material, 8A654
- Dynamic fracture under pressure and shear, 9A855
- Buckling of filament-wound cylindrical vessels subjected to external pressure, 10A631
RAVICHANDRAN, G: Inertial effects on void growth in porous viscoplastic materials, 5A450
- Analysis of temperature distribution during circumferential welding of cylindrical and spherical components using the FEM, 8A844
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part II: Numerical simulations, 12A214
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part I: Experimental investigations of temperature signatures and propagation speed, 12A213
RAVICHANDRAN, KS: Influence of mode of initiation on the growth of small surface cracks in titanium aluminides, 8A586
RAVICHANDRAN, M: Numerical analysis of two-ring flame stabilizer flows in aircraft afterburners, 1A1324
RAVICHANDRAN, RV: Special incremental-iterative solution technique for nonlinear structural analysis including snap-through, 1A679
RAVIKIRAN, A: Effect of interface layers formed during dry sliding of zirconia toughened alumina (ZTA) and monolithic alumina against steel, 10A992
RAVIKUMAR, KV: Influence of heat leak location on performance of cryogenic liquefier: Heuristic rules for troubleshooting by an expert system, 2A1140
RAVINDRA, K: Reduction of vertical tail buffet response using active control, 11A1030
RAVINDRA, MK: Seismic probabilistic safety analysis of unit 1 of the Loviisa nuclear power plant, 9A1387
RAVINDRAN, K: Finite element solution of incompressible flows using an explicit segregated approach, 6A21
RAVINDRAN, V: Modeling of Bioactive Carbon Adsorbers: A hybrid weighted residual-finite difference numerical technique, 9A92
RAVIPRAKASH, GK: Green function discretization for numerical solution of the Helmholtz equation, 4A329
RAWLINS, WT: Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, 4A1254
- Infrared emission from high-temperature $H_2O(v_2)$: A diagnostic for concentration and temperature, 8A1057
RAY, A: Damage-mitigating control of mechanical structures: Experimental verification of the concept, 1A883
- Neural network representation of fatigue damage dynamics, 1A779
- Grammian assignment for stochastic parameter systems and their stabilization under randomly varying delays, 2A253
- Life prediction of the thrust chamber wall of a reusable rocket engine, 4A1271
- State-space supervisory control of reconfigurable discrete event systems, 10A421
- Modeling of power plant dynamics and uncertainties for robust control synthesis, 11A341
RAY, D: Acoustic travel-time perturbations due to shallow-water internal waves and internal tides in the Barents Sea Polar Front: Theory and experiment, 7A329
RAY, JC: Further considerations for nonlinear FE analysis, 1A839
RAY, K: Parametric instability of a symmetric sandwich beam with higher order effects, 12A615
- Parametric instability of multi-layered sandwich beams, 12A189
RAY, S: Irreversibility analysis of a sieve tray in a distillation column, 7A1201
- Analysis of laminar natural convection from a discrete isothermal flush heater mounted on the side wall of a partially open rectangular enclosure, 7A1210
RAY, SN: Mass transfer effects on flow past an impulsively started infinite vertical plate with constant mass flux: An exact solution, 8A1245
RAYNAUD, M: Method for the solution of the coupled inverse heat conduction-radiation problem, 8A1182
RAZANI, A: Transient exergy analysis and optimal removal time of a cylindrical storage system, 8A1218
RAZDAIBEDIN, AA: Mathematical model of integrated processes of rotary shaping of circular parts, 11A596
RAZELOS, P: Quest for the optimum longitudinal fin profile, 4T1222
RAZMEROV, AV: Convective heat transfer enhancement when using gas-solid particle two phase coolant for the Tokamak type reactor first wall cooling, 12A1333
RAZNJEVIC, K: Handbook of Thermodynamic Tables, Second Edited and Revised Edition, 10N34
RAZUMOVSKII, IA: Determination of stress intensity factors in the case of a combined loading by the method of holographic interferometry, 5A623
RAZVI, SR: Confined columns under eccentric loading, 3A775
RAZZAQUE, MM: Static torque and drag characteristics of an S-shaped Savonius rotor and prediction of dynamic characteristics, 12T1182
READ, DT: Applications of Fracture Mechanics in Electronic Packaging and Materials, EEP-Vol 11/MD-Vol 64 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 5N20
READ, J: Approximation of the optimal control of vibrations: A geometrical approach, 7A134
READ, L: Method for inverse dynamic analysis using accelerometry, 12A1462
READ, PJCL: Fatigue failure mechanisms in fiber-reinforced plastic laminated tee joints, 1A756
READ, W: Series solutions for steady unsaturated flow in irregular porous domains, 9A1358
READ, WW: Hillside seepage and the steady water table - I: Theory, 5T1336
REAY, DA: Energy and Environment - Proc of Int Conf on Energy and the Environment, 1995, 9N30
REBARBER, R: Conditions for robustness and nonrobustness of the stability of feedback systems with respect to small delays in the feedback loop, 8T263
REBEIZ, KS: Shear strength of reinforced polyester concrete using recycled PET, 1A893
REBEZ, A: Representing earthquake intensity-magnitude relationship with a nonlinear function, 11A1349
REBHOLZ, C: Comparative tribology studies of hard ceramic and composite metal-DLC coatings in sliding friction conditions, 2T804
REBILLARD, E: Vibrational behavior of a population of coupled plates: Hypersensitivity to the connexion angle, 6A140
REBINSKY, DA: Acoustic and flexural wave scattering from a three-member junction, 5A266
- Line admittance at the junction of two plates with and without fluid loading, 9A342
REBOLLO, TC: Rivlin-Eriksen's theorem application to a turbulence model, 4T1086
REBOW, M: Laser processing: Numerical simulation of heat transfer phenomena, 3A1186
REDA, MR: Role of chromium or cobalt alloying of plain steels (low residual) on their corrosion behavior in hydrochloric acids, 2A596
- Effect of soft tap water chemistry on fatigue crack growth of steel, 7A784
REDDI, LN: Characterization of preferential flow paths in compacted sand-clay mixtures, 1A692
REDDY GORLA, RS: Magnetohydrodynamic braking, 5A981
- Thermal radiation effect on mixed convection from horizontal surfaces in saturated porous media, 12A1349
REDDY, BD: Acceleration waves in finitely deformed elastic-plastic solids, 1A195
- Stability and convergence of a class of enhanced strain methods, 4A434
- Finite element method for mixed variational inequalities arising in elastoplasticity, 4A473
- Further results for enhanced strain methods with isoparametric elements, 4A42
- Computational plasticity: The variational basis and numerical analysis, 4A471
REDDY, GM: Ballistic performance of high-strength low-alloy steel weldments, 10A276
REDDY, JN: Nonlinear progressive failure analysis of laminated composite plates, 5A482
- Variable kinematic modeling of laminated composite plates, 12A607
- Stress distributions during fiber pull-out, 12A537
REDDY, JRN: Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, 8A1076
REDDY, KR: Interface shear behavior of landfill composite liner systems: A FE analysis, 12A662
REDDY, NM: Study of transpiration cooling over a flat plate at hypersonic Mach numbers, 1T1025
REDDY, NN: Prediction method for broadband shock-associated noise from supersonic rectangular jets, 9A1096
REDDY, NP: Stress distribution in the ankle-foot orthosis used to correct pathological gait, 6A1376
REDDY, TSR: Flutter analysis of propfans using a 3D Euler solver, 8A225
REDDY, TY: Eccentricity factor in the progressive crushing of tubes, 2A500
- Failure maps of clamped beams under impulsive loading, 3A119
REDDY, VN: Upper-bound and FE analysis of axisymmetric hot extrusion, 10A699
REDDY, YSN: Nonlinear progressive failure analysis of laminated composite plates, 5A482
REDEKOP, D: Instability of a cylindrical shell under three-point bending, 12A6
REDFORD, AH: Automated rework of printed circuit board assemblies: Methods and procedures, 7T464
REDINIOTIS, OK: Temporal evolution of a pair of streamwise vortices, 2A871
- Flow control over a maneuvering delta wing at high angles of attack, 9A1226
REDKO, AF: Heat transfer to a finned tube in a high-temperature pulsating layer, 10A1284
REDNER, JA: Use of iron salts to control dissolved sulfide in trunk sewers, 3T1397
REDNER, RA: Improved method for gas lift allocation optimization, 1A1409
REED, D: Fast vortex methods for predicting wind-induced pressures on buildings, 4T295
REED, GT: Experimental results and FE modeling of an embedded polarimetric sensor, 2A425
REED, HL: Linear stability theory applied to boundary layers, 6A979
REED, PAS: Investigation of the role of residual stresses in the warm prestress effect - Part II: Analysis, 10A784
- Investigation of the role of residual stresses in the warm prestress effect - Part I: Experimental, 10A783
REEDER, JR: Stitching vs a toughened matrix: Compression strength effects, 6A436
REEDER, MF: Dual stream axisymmetric mixing in the presence of axial vorticity, 6A975
- Impact of tab location relative to the nozzle exit on jet distortion, 6T978
- Evolution of a jet with vortex-generating tabs: Real-time visualization and quantitative measurements, 9A1162
REEDY JR, ED: Butt joint strength: Effect of residual stress and stress relaxation, 8A852
REEKER, M: Instability of buoyant diffusion flames, 8A1253

REENTS JR, WD: Single particle characterization of time-of-flight mass spectrometry, 2A1210
REES, DAS: Effect of anisotropic permeability on free convective boundary layer flow in porous media, 1A1370
- Stability of vertical thermal boundary-layer flow in a porous medium, 1A1071
- Boundary layer flow and heat transfer on a continuous moving wavy surface, 3A939
- Non-Darcy natural convection from a vertical wavy surface in a porous medium, 4A1316
- Blasius boundary-layer flow of a micropolar fluid, 5A933
REES, DWA: Tensile flow and instability in galvanized, rolled steel sheet, 3A612
- Instability limits to the forming of sheet metals, 7A733
REES, SW: Numerical simulation of measured transient heat transfer through a concrete ground floor slab and underlying substrata, 3A1110
REESE, J: Three-dimensional particle image velocimetry for use in three-phase fluidization systems, 4A1314
REEVE, R: Galileo high-gain antenna deployment anomaly thermal analysis support, 3A1246
REEVE, RT: Effective emittance for Cassini multilayer insulation blankets and heat loss near seams, 10A1305
REEVES, EA: Influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene, 6A796
REEVES, M: Numerical modeling and particle image velocimetry measurement of the laminar flow field induced by an enclosed rotating disc, 7A1063
- Particle image velocimetry measurements of in-cylinder flow in a multi-valve internal combustion engine, 7A1192
REFAAT, MH: Contact stress analysis of spur gears using variational inequalities, 2A829
REGAN, BA: Application of the FEM to acoustic scattering problems, 6A19
REGAN, FJ: Moving-mass roll control system for fixed-trim re-entry vehicle, 7A402
REGGIO, M: Error estimator and adaptive moving grids for finite volumes schemes, 4A61
- Grid influence on upwind schemes for the Euler and Navier-Stokes equations, 9A88
REGNIER, VC: Numerical simulations of interface viscosity effects on thermoconvective motion in 2D rectangular boxes, 1A1191
REGO, AJC: Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 2A937
- Numerical simulation of the two-phase flow redistribution between two passes of a heat exchanger (Spanish), 3A932
REGTIEN, PPL: New numerical algorithm for temperature measurement based on the variational approach of an optimal control problem, 12A1249
REHANEK, J: Dynamics of the thermal state of building interiors, 11A1191
REHBINDER, G: Motion of a torsion pendulum immersed in a linear viscous liquid, 1A253
- Critical damping for well oscillations: A theoretical investigation, 8A1314
REHBOCK, V: Optimal control of singular systems with a cost on changing control, 7T381
REIBLE, DD: Flow and transport modeling in the sea-breeze - Part II: Flow model application and pollutant transport, 3T1348
REIBOLD, R: Determination of the phase of an ultrasound field using light diffraction, 11T262
REICH, S: Symplectic integration of constrained Hamiltonian systems by composition methods, 10A120
REICHENBACH, H: Experimental and numerical study of the interaction between a planar shock wave and a square cavity, 11A204
REICHERT, BA: Expensive and effective five-hole probe rake, 2A1063
- Improving curved subsonic diffuser performance with vortex generators, 6A965
- Vortex ingestion in a diffusing S-duct inlet, 7A1168
REID, I: Prediction of bed-load transport by desert flash floods, 8A881
REID, JD: Towards the understanding of material property influence on automotive crash structures, 7A257
- Crashworthiness of automotive steel midrails: Thickness and material sensitivity, 12A632
REID, JR: Crashworthiness and Occupant Protection in Transportation Systems, AMD-Vol 210/BED-Vol 30 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N14
REID, LD: Dynamics of Flight: Stability and Control, Third Edition, 5N25
- Investigation of primary flight control failure in a piloted helicopter, 10A438
REID, RM: Control time for gravity- capillary waves on water, 2A172
REID, SR: Response of an elastic, plastic turbular cantilever beam subjected to a force pulse at its tip: Small deflection analysis, 1A513
- Inertia-sensitive impact energy-absorbing structures - Part I: Effects of inertia and elasticity, 1A506
- Inertia-sensitive impact energy-absorbing structures - Part II: Effect of strain rate, 1A507
- Impact loading of plates and shells by free-flying projectiles: A review, 6A189
- Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, 11A183
REIDER, MB: High-order explicit method for the computation of flow about a circular cylinder, 9T1079
REIFSNIDER, K: Progress in Durability Analysis of Composite Systems - Proc of Int Conf DURACOSYS 95, Brussels, Belgium, July 1995, 11N36
REIFSNIDER, KL: Physical aging behavior of high-performance composites, 3A685
- Characterization of the fiber-matrix interphase and its influence on mechanical properties of unidirectional composites, 8A448
- Evaluation of chemical aging-oxidation in high-performance composites using the Vickers microindentation technique, 8A472
REIMERS, MJ: Sliding plate rheometer studies of concentrated polystyrene solutions: Large amplitude oscillatory shear of a very high molecular weight polymer in diethyl phthalate, 6A871
REIMUNDIN, JC: Thin-walled prestressed concrete members under combined loading, 8A757
REIN, M: Transitional regime between coalescing and splashing drops, 7A1089
REINAUER, R: Non-breaking undular hydraulic jump, 4A918
REINELT, D: Computational investigation on combustion of a carbon packed bed in stagnation flow field (Chinese), 8A1319
REINELT, DA: Simple shearing flow of a dry Kelvin soap foam, 9A1082
REINERT, U: Modeling of the micromechanical behavior of unidirectional fiber-reinforced ceramics by the example of SiC-SiC, 5A478
REINFRANK, M: Introduction to Fuzzy Control, Second Edition, 6N13
REINHARDT, AK: Laser vibrometry measurements of rotating blade vibrations, 5A159
REINHARDT, HW: Thermal imaging of hazardous organic fluids in concrete, 4A447
- Mode II fracture testing method for highly orthotropic materials like wood, 10A838
REINHARDT, WD: Coordinate-independent representation of spins in continuum mechanics, 11A1
REINHORN, AM: Seismic resistance of reinforced concrete frame structures designed for gravity loads: Performance of structural system, 3A783
- Seismic retrofit of reinforced concrete buildings designed for gravity loads: Performance of structural model, 5A712
- Experimental verification of H_{∞} and sliding mode control for seismically excited buildings, 6A1281
- Control of sliding-isolated buildings using sliding-mode control, 7A911
REISE, C: Multiresolution analysis of satellite-derived irradiance maps: An evaluation of a new tool for the spatial characterization of hourly irradiance fields, 1A1429
REISS, R: Buckling of rectangular symmetric angle-ply laminated plates determined by eigensensitivity analysis, 4A572
REISSIG, M: Classical solvability for the Hele-Shaw moving boundary problems with kinetic undercooling regularization, 4A936
REISSNER, E: Selected Works in Applied Mechanics and Mathematics, 11R48
- Problem of lateral buckling of cantilever plates, 1A659
- Shear center problem for nonlinear material behavior, 5T492
REIST, PC: Characterization of morphological changes in agglomerates subject to condensation and evaporation using multiple fractal dimensions, 2A1205
REISTER, H: Turbulent flow in an intake-manifold, 1A1082
REITER, DT: Nonlinear waveform tomography applied to crosshole seismic data, 11A1376
REITER, J: Biplicit spectral-collocation-type ansatz for the numerical integration of partial differential equations with the transversal method of lines, 3A52
REITICH, F: Overall elastic energy of polycrystalline martensitic solids, 12A481
REITZ, RD: Development and testing diesel engine CFD models, 3A1241
- Turbulence modeling of internal combustion engines using RNG k-ε models, 3A1243
- Modeling fuel spray impingement and heat transfer between spray and wall in direct injection diesel engines, 4A1142
- Modeling heat transfer to impinging fuel sprays in direct-injection engines, 5T1266
REJON, L: Effect of dielectric constant of the liquid phase of electrorheological Fluids, 7A1136
REK, Z: Boundary-domain integral method using a velocity-vorticity formulation, 4A972
REMES, NS: Strain of thick-walled cylindrical shells with porous filler and the inner explosion loading, 9A603
REMEZ, NS: Interaction of cylindrical blast waves in viscoplastic medium with immobile obstacle (Russian), 7T230
REMOISSENET, M: Waves Called Solitons: Concepts and Experiments, 2R12
REMSETH, S: Cyclic stress-strain behavior of alloy AA6060 - Part I: Uniaxial experiments and modeling, 3A468
- Cyclic stress-strain behavior of alloy AA6060 T4 - Part II: Biaxial experiments and modeling, 3A469
REMY, PM: Benefits of MS 6001B gas turbine in cogeneration: The UEM power plant case, 10A1391
REN , BAOSHENG: Stiffness-averaging method for calculating the fundamental frequency of finite amplitude nonlinear vibration of a circular plate (Chinese), 9T579
REN, BINGYI: Analytical variational method of solution for stress concentration factors of finite plates with a pin hole, 10A516
REN, GEXUE: Arnoldi reduction algorithm for large scale gyroscopic eigenvalue problem, 12A104
REN, LU-QUAN: Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, 11A806
REN, LUQUAN: Abrasive wear behavior of bamboo, 4T830
REN, NING: Behavior of elastic-plastic rough surface contacts as affected by surface topography, load, and material hardness, 6A817
REN, TING-RONG: Optimum disposition of assembled piping system for parallel operation of multiple compressors, 12A1116
REN, WENMIN: Approximate formulas of impact force for normal impact of a finite elastic beam on elastic foundation by a finite rod, 9A571
REN, Y: Substructure synthesis with FRF data, 2A129
- Identification of joint properties of a structure using FRF data, 3A861
REN, YJ: Conditional simulation of non-Gaussian random fields for earthquake monitoring systems, 3A1335
REN, YONGJIAN: Elasticity solutions of spherically isotropic cones under concentrated loads at apex, 7A621
REN-HUAI, LIU: Nonlinear buckling of symmetrically laminated, cylindrically orthotropic, shallow, conical shells considering shear, 8A513
- Nonlinear buckling of symmetrically laminated, cylindrically orthotropic, truncated, shallow, spherical shells under uniform pressure including shear effects, 8A514
RENARD, C: Acquisitions and quantitative data handling of laser beam analyzer signals (French), 4T768
RENARD, J: Fracture statistics of a unidirectional composite, 7A832
- Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A837
- Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A838
RENARDY, M: Mechanism of drag reduction, 1A1051
- Note on the equations of a thermoelastic plate, 2A1154
- Numerical study of the asymptotic evolution and breakup of Newtonian and viscoelastic jets, 2A981
- Nonlinear stability of flows of Jeffreys fluids at low Weissenberg numbers, 4A1060
- Instability proof for some transonic problems with resonant mode crossings, 5A954
- Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, 10A1076
- Singularly perturbed problem related to surfactant spreading on thin films, 12T69
- Initial-value problems with inflow boundaries for Maxwell fluids, 12A1117
RENARDY, Y: Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, 10A1076
RENARDY, YY: Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995, 12N39
- Spurt and instability in a two-layer Johnson-Segalman liquid, 5A956
RENAUD, P: Modelization and characterization of asymmetrical thermal micro-actuators, 10T464
RENAUT, R: Pseudospectral Chebychev method for the 2D wave equation with domain stretching and absorbing boundary conditions, 9A112
RENAUT, RA: Performance of preconditioned waveform relaxation techniques for pseudospectral methods, 7A1250
RENDER, PM: Investigation into ice detection parameters for turboprop aircraft, 7A1171
- Impact characteristics of hailstones simulating ingestion by turbofan aeroengines, 11A184
RENEMAN, RS: Effective algorithm for measuring diastolic artery diameters, 1A1460
- Non-invasive estimation of wall shear rate in humans by means of ultrasound, 1A1463
RENGASWAMY, NS: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595
RENICK, DH: Simplified method for evaluating the seismic buckling capacity of unstiffened steel containment structures, 2A502
RENKEN, KJ: Forced convection steam condensation experiments within thin porous coatings, 12A1238
RENLIE, L: High-order, finite-difference modeling of multipole logging in formations with anisotropic attenuation and elasticity, 6A1249
RENNER, M: Tribological investigation of textile fabrics, 12A899
RENNIE, GK: Use of interferometry of measure flow characteristics of an oscillating draining film, 12A1037
RENOUARD, D: Analytical and experimental study of the oblique passing of a solitary wave over a shelf in a two-layer fluid, 1A226
RENSHAW, AA: Local stability of gyroscopic systems near vanishing eigenvalues, 9A142
- Natural frequencies of circular plates including the effects of transverse shear and rotary inertia, 12T164
RENTON, JD: Generalized beam theory and modular structures, 8A474
RENZOPAOLI, S: In-orbit mission reconfiguration for Italsat system, 5A747
REPETTO, EA: Formulation of the MITC4 shell element for finite strain elasto-plastic analysis, 1A518
REPIN, VB: Nonlinear oscillations of a gas in a tube, 6A202
RESCH, MT: Modeling and evaluating the scattering of Rayleigh waves by a linear distribution of surface cracks, 8A177
RESHETNIKOV, AV: Collapse of a boiling water jet, 1A1230
RESTREPO, JM: Discretization of a model for the formation of longshore sand ridges, 3T884
RETTENMAYR, M: Extended numerical procedure for predicting microstructure and microsegregation of multicomponent alloys, 11A1199
REUBEN, RL: Electrostatic harmonic microactuator for arterial plaque removal, 6A346
- Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
REUILLON, M: Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
REUSKEN, A: Fourier analysis of a robust multigrid method for convection-diffusion equations, 1A1302
REUT, VV: Stressed state of a box-like shell reinforced by a pair of symmetric inclusions parallel to the edge of the shell, 8A495
REUTER, WG: Fracture Mechanics, Volume 26, 11N28
REVANKAR, ST: Analysis of flow instabilities and their role on critical heat flux for two-phase downflow and low pressure systems, 3A1081
REVIL, A: Surface electrical properties to spontaneous potentials in porous media, 11A1332
REVILAKOVA, J: Fiber properties with changed cross-sectional geometry, 6T458
REWIENSKI, M: Magnetic surface anisotropy in ferromagnetic thin films with two rough surfaces, 1T684
REY, A: Effect of Taylor diffusion on the dynamic response of an on-line capillary viscometer, 8A869
REY, AD: Phenomenological theory of flow-alignment in binary nematic mixtures, 4A877
REY, C: Effect of body geometry and incident flow characteristics on the distortion of turbulence, 5T962
REYES, JA: Dynamic stiffening of orthogonal beam grillages, 4A789
- Note on transverse, axisymmetric vibrations of annular plates of non-uniform thickness, 10T176
REYES, M: Modeling of supercharger turbines in internal-combustion engines, 12A1176
REYES, R: Adsorption model for the superheat at the critical heat flux, 3T1079
REYHANOGLU, M: Switched mode feedback control laws for nonholonomic systems in extended power form, 7T388
REYNOLDS, OR: Full envelope flight control system design using qualitative feedback theory, 6A311
REYNOLDS, SA: Simultaneous measurement of surface temperature and heat flux using a composite slab, 8A1121
REYNOLDS, T: Reduction in interlaminar shear strength by discrete and distributed voids, 9AR24
REYNOUARD, JM: Beam global model for the seismic analysis of RC frames, 12A1397
REZA MOHEIMANI, SO: Robust observability for a class of time-varying discrete-time uncertain systems, 12T319
REZAEEPAZHAND, J: Scale models for laminated cylindrical shells subjected to axial compression, 12A596
REZLESCU, N: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
REZVANI, MA: Experimental evaluation of squeeze film dampers without centralizing springs, 8T102
RHEE, CW: Dynamical behavior of a premixed turbulent open V-flame, 4A1260
RHEE, J: Dynamic response of a revolute joint with clearance, 4A867
- Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, 6A453

RHEE, K: Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, 6A1345
RHO, JAE-YOUNG: Nonlinear transition period of broadband ultrasound attenuation as bone density varies, 12A1449
RHODES, BA: Particle-loaded composites for acoustic anechoic coatings, 1A334
RHODES, DG: Lateral shear in wide compound duct, 3T880
RHODES, J: Accuracy of some codes of practice in predicting the load capacity of cold-formed columns, 10A900
RHODES, MD: Verification tests of automated robotic assembly of space truss structures, 1A923
RHYNER, J: Nonlinear dielectric composites, 2A439
RIABOV, VV: Exponential box-schemes for boundary-layer flows with blowing, 6A955
- Approximate calculation of transport coefficients of Earth and Mars atmospheric dissociating gases, 10A1084
RIBA, C: Axial force test and modeling of the V-belt continuously variable transmission for mopeds, 12A949
RIBAS, CS: Application of level II reliability theory, 6A733
RIBBERINK, JS: Sheet flow and suspension of sand in oscillatory boundary layers, 2T853
RIBEIRO, RS: Vortex-in-cell analysis of wing wake roll-up, 2A1024
- Panel method formulation for oscillating airfoils in supersonic flow, 2A1020.
- Computational aspects of wing vortex wake roll-up, 3A985
RIBEREAU, M-T: Nonlinear dynamics of test models in wind tunnels, 8A1056
RICCI, S: Ground modal tests of space-structure components using boundary masses, 10A946
RICCIUS, O: Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
RICE, CG: Human-response effects of impulse noise, 8A241
RICE, HJ: Identification of weakly nonlinear systems using equivalent linearization, 1A371
- Linear path identification of general non-linear systems, 6A273
- Convergent algorithm for harmonic response prediction of general nonlinear structures, 6A153
RICE, JR: Self-healing slip pulse on a frictional surface, 1A1402
- Modeling with collaborating PDE solvers: Theory and practice, 2A59
- Spectral method for 3D elastodynamic fracture problems, 3A676
RICH, JW: Kinetics of nitric oxide formation behind shock waves, 10A1098
RICHARD, E: Comparison between linear and nonlinear control of an electropneumatic servo-drive, 12A422
- Implicit nonlinear robust control for an electrohydraulic system with uncertainties, 12A425
RICHARD, JC: Use of drag probe in supersonic flow, 6T933
RICHARD, MJ: Controlling robot manipulators by dynamic programming, 3A416
- Free and forced vibration of a cylindrical shell with a floor partition, 7A171
- Stochastic dynamical modeling of an open-chain manipulator in a fluid environment, 11A386
RICHARD, RM: Analysis and design of large diagonal bracing connections, 9A934
RICHARD, V: One-dimensional layered media - Part 2: Layer-based waveform inversion, 3A191
- One-dimensional media - Part 1: 3D elastic modeling, 3A192
RICHARDS, BE: Generalized differential and integral quadrature and their application to solve boundary layer equations, 3A946
- Preconditioner for steady 2D turbulent flow simulation, 6A1001
- Implicit time-stepping methods for the Navier-Stokes equations, 8A923
RICHARDS, BG: Design and development of a direct injected, glow plug ignition-assisted, natural gas engine, 5A1272
RICHARDS, CD: Concentration measurements in a self-excited jet, 12A1130
RICHARDS, GA: Chaos in thermal pulse combustion, 5A1263
RICHARDS, WD: Vibration of ring-stiffened circular cylinders under external water pressure, 12A177
RICHARDSON, G: Motion of vortices in type II superconductors, 2A509
RICHARDSON, MOW: Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, 12A926
RICHARDSON, S: Cusp development in free boundaries, and 2D slow viscous flows, 4A945
- Numerical study of the blockage effects on viscous flow past a circular cylinder, 11A881
RICHARDSON, WJ: Dynamic responses of the head and cervical spine to axial impact loading, 6A1310
RICHELSEN, AB: Comparison of a numerical analysis of rolling with experimental data, 10A705
RICHMANN, K-H: Oscillating plate viscometer in the Hz to kHz range, 4A915
RICHMOND, O: Model of the effect of alloy content on shell strength during solidification of binary alloys, 5A1194
- Approximate model of surface ploughing by a rotating disc and other indenters, 10A988
RICHTER , A: Design of shear-deformable laminated shells for maximum buckling load under combined loading, 11A720
RICHTER, J: Heat transfer measurements on turbine airfoils using the naphthalene sublimation technique, 5A1081
RICHTER, JL: Optics of a two-trough solar concentrator, 8A1377
RICHTERING, W: Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, 4A913
RICKMAN, JM: Effect of reinforcement morphology on matrix microcracking, 8A641
RICOS, V: Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
RIDDELL, R: Inelastic design spectra accounting for soil conditions, 4A1334
RIDDINGTON, JR: Influence of joint detail on the flexural-torsional interaction of thin-walled structures, 5A12
RIDER, RJ: Fatigue and ratcheting interactions, 4A676
- Application of a kinematic hardening model for assessing ratchetting in pressurized pipes, 11A451
RIDHA, A: Three-dimensional mixed convection laminar boundary-layer near a plane of symmetry, 11A954
- Aiding flows non-unique similarity solutions of mixed-convection boundary-layer equations, 12A1217
RIEGEL III, JP: Penetration erosion phenomenology, 10A280
RIEKER, JR: Discretization considerations in moving load FE beam models, 7A12
RIEMSLAGH, K: Multi-staging of Jacobi relaxation in multigrid methods for steady Euler equations - II, 1A1008
- Multigrid method with unstructured adaptive grids for steady Euler equations, 11A908
RIENACKER, A: Transient EHD connecting rod analysis: Full dynamic versus quasi-static deformation, 10A1220
RIERA, JD: Dynamic analysis of thin-walled and variable open section beams with shear flexibility, 1A595
RIES, H: Nonisothermal receivers, 3A1371
RIESCH-OPPERMANN, H: Probabilistic assessment of non-destructively determined flaws in welds, 11A838
RIEUTORD, M: Magnetic structures in a dynamo simulation, 7A1141
RIEUTORD, P: Frequencies and modes of rotating flexible bladed disc-shaft assemblies: A global cyclic symmetry approach, 10A231
RIFE, MC: Perpendicular blade vortex interaction, 2A194
- Structure and development of a wing-tip vortex, 10A1207
RIFERT, VG: Surface nonisothermness effect on profiled surface condensation enhancement, 8A1140
RIFFAT, SB: Solar-powered Rankine system for domestic applications, 7A1398
- Computational fluid dynamics applied to ejector heat pumps, 7A1271
- Solar and gas-driven absorption heat-pump systems, 7A1275
RIGATOS, AP: Dynamic indentation of an elastic half-plane by a rigid wedge: Frictional and tangential-displacement effects, 1A461
RIGGS, HR: Application of the Hashind-Hanaoka relations to hydroelasticity problems, 2A190
- Vibration of a free-free beam under tensile axial loads, 7T146
RIGHETTINI, P: Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, 11A74
- Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, 11A75
RIGO, P: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
RIGOTTI, M: Tests on shear capacity of reinforced concrete, 3A788
RIGOU, Z: Elastic Herglotz functions, 2A152
RIJKEN, OR: Slepian models for waves and wave-structure interaction, 4A290
RIKARDS, R: Optimal design of sandwich and laminated composite plates based on the planning of experiments, 2A729
- Finite element analysis of delamination cracks in bending of cross-ply laminates, 6A666
- Analysis of free damped vibrations of laminated composite cylindrical shells, 7A170
RIKS, E: Computation of membrane and bending stress intensity factors for thin, cracked plates, 3A681
RILEY, AJ: Vortex breakdown control by delta wing geometry, 1A1106
RILEY, CJ: Engineering interactive inviscid boundary-layer method for hypersonic flow, 5T899
RILEY, DR: Integrating optimal experimental design into the design of a multi-axis load transducer, 5A850
RILEY, DS: Long-wave morphological instabilities in directional solidification, 5A1170
RILEY, M: Experimental verification of H_∞ and sliding mode control for seismically excited buildings, 6A1281
- Control of sliding-isolated buildings using sliding-mode control, 7A911
RILEY, N: Boundary-layer control by heat and mass transfer, 2A1102
- Boundary layer on a rotating ellipse, 10A1139
- Free convection at an axisymmetric stagnation point, 11A1116
- Vortex ring interactions - II: Inviscid models, 11A876
- Boundary-layer flow around a submerged circular cylinder induced by free-surface traveling waves, 12A1108
RILEY, WF: Engineering Mechanics: Statics, Second Edition, 6R34
- Engineering Mechanics, Second Edition: Dynamics, 11R12
RIMAI, DS: Adhesion and removal of particles from surfaces, 7A1035
RIMAL, PP: Seismic analysis and design of modern steel highway connectors, 11A1407
RIMLINGER, MJ: Shock-wave and boundary-layer interactions with bleed through rows of holes, 8A944
RIMROTT, FPJ: Centrifugal impulse as coordinate in the Tisserrokian formulation, 3A74
- Exact displacement solution of arbitrary degree paraboloidal shallow shell of revolution made of linear elastic materials, 10A610
RINCON, DM: Complex geometry, rotary inertia and gyroscopic moment effects on drill vibrations, 6A571
RINDT, CCM: Unsteady flow in a rigid 3D model of the carotid artery bifurcation, 9A1453
RINGERMACHER, HI: Laser ultrasonics for the evaluation of composites and coatings, 4A770
RINKER, M: Determination of the absolute value of ultrasonic power by means of thermoacoustic sensors, 11A261
RINTAMAA, R: Descriptive characteristics of different types of test for irradiation embrittlement, 3A1361
RIO, G: Finite element simulation of 3D mechanical behavior of NiTi shape memory alloys, 3A15
RIONERO, S: Qualitative Estimates for Partial Differential Equations: An Introduction, 5N35
RIOS NETO, A: Stochastic approach to the problem of spacecraft optimal maneuvers, 2A205
RIOUAL, J-L: Optimum drag balance for boundary-layer suction, 9T1138
RIOUX, C: Fractal aggregates with fullerene-like monomers, 8A462
RIPA, P: Improving a one-layer ocean model with thermodynamics, 4A1342
RIPOCHE, J: Experimental study of the conversion of Lamb waves at the end of an immersed plate, 11A257
RISEBOROUGH, P: Nonlinear control law for aerial towed target, 4A376
RISH III, J: Flow of nitrogen and superheated steam through cement mortar, 3T1097
RISI, JD: Analytical investigation of active control of radiated inlet fan noise, 6A252
RISITANO, A: Bending of a pretwisted bar by terminal transverse load, 9A569
RISO, RR: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474
RIST, U: Direct numerical simulation of controlled transition in a flat-plate boundary layer, 2A942
RISTINMAA, M: Modeling of plasticity and damage in a polycrystalline microstructure, 5A433
RITCHIE, KT: Study of the optomechanical response of a diametrically loaded high-birefringent optical fiber, 7A886
RITS, W: Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, 11A523
- Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, 11A522
RITTEL, D: Dynamic fracture detection using the force-displacement reciprocity: Application to the compact compression specimen, 6A680
RITTER, B: Development of passive microvalves by the FEM, 3A392
RITTER, JE: R-curve and suberitical crack growth behavior at elevated temperatures in coarse grain alumina, 11A627
RITTER, JR: Orbital acceleration research experiment: Calibration measurements, 1A271
RITTERSTAEDT, U: Long term effect of noise protection barriers on the annoyance response of residents, 1A338
RIVAS, H: Flow characteristics of concentrated emulsions of very viscous oil in water, 11A857
RIVAS, ML: Dynamic boundary evalustion method for approximate optimal lunar trajectories, 12T349
RIVERA, A: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
RIVERA, CJ: Simplified approach for control of rotating stall - Part I: Theoretical development, 4A1112
- Simplified approach for control of rotating stall - Part 2: Experimental results, 4A1121
RIVERO, FJ: Vertical distribution of <uw>, 2A179
RIVKIND, V: Dual FE approach for stresses of elasto-perfectly plastic bodies, 3A478
RIX, DH: Aspects of the outline design specification of a 0.5 kW Stirling engine for domestic scale co-generation, 8A1286
RIZK, YM: Analysis of tangential slot blowing on F/A-18 isolated forebody, 2A1029
RIZKALLA, SH: Bolted connections for fiber-reinforced composite structural members: Experimental program, 3A510
- Bolted connections for fiber-reinforced composite structural members: Analytical model and design recommendations, 3A511
RIZZETTA, DP: Numerical investigation of supersonic wing-tip vortices, 11A915
RIZZI, A: Turbulent flow in supersonic and hypersonic nozzles, 2A1074
- Compressibility and pressure-gradient correction assessment for turbulent hypersonic flows, 12T1069
RIZZI, G: Calculation of stress fields near inclusions by use of the fracture mechanics weight function, 5A405
RIZZI, N: Masonry as structured continuum, 5A465
- Nonstandard models for thin-walled beams with a view to applications, 12A611
RIZZO, FJ: Partitioning, boundary integral equations, and exact Green's functions, 3A45
- Hypersingular integrals: How smooth must the density be, 7A55
RIZZO, S: Nonlinear FE analysis of no-tension masonry structures, 1A904
RO, EA: High-strength polyethylene film fibers, 6A460
RO, J: Control of the natural frequencies of NITINOL-reinforced composite beams, 1A882
RO, ST: Analysis of the power cycle utilizing the cold energy of LNG, 4A1359
- Heat transfer correlation for natural convection in a meniscus-shaped cavity and its application to contact melting process, 11A1122
RO, SUNG TACK: Heat transfer by oscillating flow in a circular pipe with a sinusoidal wall temperature distribution, 1A1179
- Selection of prognostic equations for the rotating motion in simulating Czochralski flow, 5A894
- Block correction-aided, strongly implicit procedure to treat simultaneous linear equations arising from implicit discretization of 3D field equations, 5A1155
ROACH, MP: Steady load-carrying capacity of recessed hydrodynamic bearings, 4T1124
- Novel variable impedance hydrodynamic oil-film bearing - Part 2: Experimental identification of the steady state and dynamic characteristics, 7T1186
- Novel variable impedance hydrodynamic oil-film bearing - Part 1: Theoretical modeling, 7A1185
ROBADEY, J: Two-dimensional integrated gas flow sensors by CMOS IC technology, 3T396
ROBAKOWSKA, T: Nonwoven carriers for artificial leather, 6T429
ROBB MCDONALD, N: Mixing induced meridional motion of modons, 8A1359
ROBB, MD: Failure envelopes for notched CSM laminates under biaxial loading, 2A647
ROBBINS JR, DH: Variable kinematic modeling of laminated composite plates, 12A607
ROBBINS, FW: Projectile fin damage from propellant combustion, 3A1136
ROBERT, MP: New class of sliders numerically designed for maximum stiffness, 5A853
ROBERTI, V: Optimal preview semiactive suspension, 9A429
ROBERTS, AJ: Accurate dynamic modeling of contaminant dispersion in channels, 1A1301
ROBERTS, AP: LQ-optimization: A cautionary tale, 2A263
- Variational approach to the polynomial optimization of multivariable control with colored noise at the controller output, 3T329
ROBERTS, JB: Spectral method for estimation of nonlinear system parameters from measured response, 6A117
- Frequency domain parametric identification method for studying the nonlinear performance of squeeze-film dampers, 7A210
ROBERTS, JC: Technique for locally increasing surface heat spreading and through-thickness thermal conductivity of graphite-epoxy laminates, 8A1235
ROBERTS, JE: Third International Conference on Mathematical and Numerical Aspects of Wave Propagation - Proc in Applied Mathematics 77, 11N19
ROBERTS, JP: Turbulent buoyant thermal in a density-stratified atmosphere, 7A1222
ROBERTS, PA: Internal hydraulic jumps at T-junctions, 11A864
ROBERTS, PD: Dynamic integrated system optimization and parameter estimation for discrete time optimal control of nonlinear systems, 8A279
ROBERTS, PH: Equations governing convection in earth's core and the geodynamo, 3T1276
ROBERTS, SG: Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316

ROBERTS, TM: Seismic resistance of steel plate shear walls, 1A1399
- Fatigue shear strength of slender web plates, 2A578
- Residual shear strength of fatigue cracked slender web panels, 5A604
- Analysis of geometric fatigue stresses in slender web plates, 8A688
- Numerical studies of fatigue induced by breathing of slender web plates, 11A774
ROBERTS, VC: Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, 4A1372
- Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, 6A1362
- Frictional action at lower limb-prosthetic socket interface, 10A1488
ROBERTS, WB: Advanced turbofan blade refurbishment technique, 5T1043
- Effect of adding roughness and thickness to a transonic axial compressor rotor, 5A1054
ROBERTSHAW, HH: Modal parameter estimation for piezostructures, 5A306
- Hybrid structural control approach for narrow-band and impulsive disturbance rejection, 9A425
ROBERTSON, AM: Flow of Oldroyd-B fluids in curved pipes of circular and annular cross-section, 8A861
- Viscous flow in curved pipes of non-uniform cross-section, 10A1151
ROBERTSON, AP: Experimental investigations of pad foundation behavior, 4A613
ROBERTSON, DD: Modeling behavior of cross-ply ceramic matrix composites under quasi-static loading, 12A757
ROBERTSON, JS: Low-frequency sound propagation modeling over a locally reacting boundary with the parabolic approximation, 1A346
- Sound propagation over impedance discontinuities with the parabolic approximation, 7A364
ROBERTSON, RN: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373
ROBILLARD, L: Mixed convection in an inclined channel with localized heat sources, 1A1204
- Convective heat transfer in an annular fluid layer with centrifugal force field, 1A1207
- Convective heat transfer in an annular porous layer with centrifugal force field, 1A1218
- Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, 4A1169
ROBINETT, RD: Dynamic programming approach for burnout-to-apogee guidance of precision munitions, 8T310
- Spacecraft Euler parameter tracking of large-angle maneuvers via sliding mode control, 11T302
ROBINSON, C: Dynamical Systems: Stability, Symbolic Dynamics, and Chaos, 10R6
ROBINSON, CD: Time-dependent transport by convection and diffusion with exchange between two phases, 2A1161
ROBINSON, DF: Unified turbulence closure model for axisymmetric and planar free shear flows, 4A1075
ROBINSON, M: Numerical analysis of the elastic-plastic behavior of pressure vessels with ellipsoidal and torispherical heads, 1A926
- Observations on stress component and stress resultant limit analysis, 6T411
- New stereoscopic X-ray imaging technique using a single X-ray source: Theoretical analysis, 8A694
- Plastic limit pressures for neighboring radial nozzles in a spherical pressure vessel, 9A969
ROBINSON, MC: Unsteady aerodynamics associated with a horizontal-axis wind turbine, 12A1433
ROBINSON, P: Finite element model for delamination propagation in composites, 12A754
ROBINSON, PB: Application of the boundary integral method to the interaction of rising 2D deformable gas bubbles, 2A932
ROBINSON, TM: Transputer-based physiological signal processing system - Part 2: System testing and investigation of flow through models of very small arterial stenoses, 6A1362
ROBINSON, WH: Preliminary results from fatigue tests on in situ sea ice beams, 11A1442
ROBUTEL, P: Stability of the planetary three-body problem - II: KAM theory and existence of quasiperiodic motions, 3A241
- Stability of the planetary three-body problem - I: Expansion of the planetary Hamiltonian, 3A240
ROCCA, E: Dynamic behavior of tilting-pad journal bearings, 4A853
- Journal orbits and their stability for rigid unbalanced rotors, 5A143
ROCCO, P: Simulating discontinuous phenomena affecting robot motion, 7A436
ROCHA, MM: Probabilistic criterion for evaluating the goodness of fatigue crack growth models, 8A599
ROCHA, P: Stability of discrete non-unit memory linear repetitive processes: A 2D systems interpretation, 8T266
ROCHE, RL: Simple formulas for stress near the crack tip in a hardening material (French), 7A824
ROCHINHA, FA: Higher-order gradient post-processings for second-order elliptic problems, 5A27
ROCK, MG: Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, 7T1420
ROCKWELL, D: Near-wake of a circular cylinder: Control by steady and unsteady surface injection, 1A1065
- Evolution of a quasi-steady breaking wave, 4A263
- Buffeting of fins: An assessment of surface pressure loading, 4T943
- Buffeting of a fin: Streamwise evolution of flow structure, 7A1153
ROCKWELL, E: Buffeting of fin: Distortion of incident vortex, 4A942
RODDEN, WP: Aeroelastic effects on the B-2 maneuver response, 1A1110
RODI, PE: Behavior of pressure and heat transfer in sharp fin-induced turbulent interactions, 4A990
- Effects of body-side compression on forward-swept sidewall compression inlets, 4A1042
- Unsteady pressure behavior in a ramjet-scramjet inlet, 11A1312
RODI, W: Turbulent line momentum puffs, 6A999
- Laser-Doppler velocimetry study of ensemble-averaged characteristics of the turbulent near wake of a square cylinder, 6A968
- Nonlinear waveform tomography applied to crosshole seismic data, 11A1376
RODICHOK, J: Finite aspect ratio effects on vortex shedding behind two cylinders at angles of incidence, 1A1064
RODIN, GJ: Squeeze film between two spheres in a power-law fluid, 12A1050
RODKIEWICZ, CM: Non-Newtonian TEHL analysis of tilting-pad bearings subjected to inlet pressure build-up, 5A1100
- Time-dependent TEHL solution to centrally supported tilting pad bearings subjected to harmonic vibration, 12A1194
RODOPOULOS, CA: Model to predict the fatigue life of fiber-reinforced titanium matrix composites under constant amplitude loading, 11A635
RODRIGUE, GH: Convergence of convective-diffusive lattice Boltzmann methods, 2A919
RODRIGUES, H: Generalized topology design of structures with a buckling load criterion, 3A758
RODRIGUES, JMC: Review of research into the injection forging of turbular materials, 3A606
- Animation of FE models of metal forming processes, 5A561
- Fracture predicting in bulk metal forming, 7A720
RODRIGUEZ, AA: Performance enhancement for a missile in the presence of saturating actuators, 6A319
- Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, 10A434
RODRIGUEZ, C: Two parameter fracture criterion for high strength low carbon steel, 8A635
RODRIGUEZ, FJ: Reduction of free-space-loss for good and rapid 3D path planning of 6-dof robots, 1A429
RODRIGUEZ, HM: Sensitivity analysis for feedforward control system design, 5A323
RODRIGUEZ, ME: Seismic load tests on two-story waffle-flat-plate structure, 1A1404
RODRIGUEZ-FERRAN, A: Nonlinear Finite Element Techniques Using an Object-Oriented Code, 11N8
RODRIGUEZ-VERA, R: Noisy fringe pattern demodulation by an iterative phase locked loop, 3A730
RODRIQUEZ, P: Questions on the corrosion of steel in concrete - Part II: Corrosion mechanism and monitoring, service life prediction and protection methods, 9A769
RODZIK, P: Control of deformation process by plastic strain, 4A452
- Multisurface and integral description of anisotropic hardening evolution of metals, 8A427
ROE, PL: Notes on the eigensystem of magnetohydrodynamics, 7A1137
ROECKER, SW: P-wave backazimuth anomalies observed by a small-aperture seismic array at Pinyon Flat, Southern California: Implications for structure and source location, 11A1392
ROEDER, CW: Seismic behavior of older steel structures, 10A1432
ROEGIERS, J-C: Contaminant transport in nonisothermal fractured porous media, 10A1413
- Mandel's problem revisited, 12A646
ROEGIERS, JC: Finite element analyses of aniaxotropic poroelasticity: A generalized Mandel's problem and an inclined borehole problem, 12A1352
ROELE, M: Use of artificial intelligence in self-tuning PID controllers, 5A327
ROELFSTRA, PE: Fracture mechanical behavior of aggregate-cement matrix interfaces, 3A719
ROELOFSEN, J: Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression *in vitro*, 5A1383
ROEMER, RB: Counter current vascular network model of heat transfer in tissues, 9A1455
ROESGEN, T: Two-dimensional on-line particle imaging velocimetry, 1A1152
ROESSET, JM: Implications of tendon modeling on nonlinear response of TLP, 7A973
ROETZEL, W: Hyberbolic axial dispersion model: Concept and its application to a plate heat exchanger, 1A1254
ROGACHEV, AS: Mechanism of structure formation during combustion synthesis of titanium silicides, 7A1333
ROGDAKIS, ED: Performance of solar-driven ammonia-lithium nitrate and ammonia-sodium thiocyanate absorption systems operating as coolers or heat pumps in Athens, 5A1356
- Thermodynamic analysis, parametric study and optimum operation of the Kalina cycle, 10A1242
ROGER, M: Theoretical analysis of tone noise generated by a shrouded tail rotor in forward flight (French), 11A243
ROGERS, AC: Feasibility demonstration of cryogenic fluid gauging for space vehicle applications, 2A1075
ROGERS, AM: Monte Carlo simulation of peak-acceleration attenuation using a finite-fault uniform-patch model including isochrone and extremal characteristics, 11A1375
ROGERS, C: Combined tension and bending testing of tapered composite laminates, 1A585
- Nizhnik-Veselov-Novikov equation: Associated boundary value problems, 12A229
ROGERS, CA: Sixth International Conference on Adaptive Structures Technology, 11N16
- Engineering feasibility of induced strain actuators for rotor blade active vibration control, 3A109
- Impedance-based modeling of actuators bonded to shell structures, 7A423
- Integration and design of piezoceramic elements in intelligent structures, 7A913
- Energy-based comparison of solid-state induced-strain actuators, 9T447
- Electro-mechanical impedance modeling of active material systems, 11A735
- Dynamic transduction characterization of magnetostrictive actuators, 11A370
ROGERS, CB: Use of streamwise vorticity to increase mass entrainment in a cylindrical ejector, 2A967
ROGERS, E: Iterative Learning Control: An overview of recent algorithms, 1A375
- Stability of discrete non-unit memory linear repetitive processes: A 2D systems interpretation, 8T266
ROGERS, GC: Rotation of the principal stress directions due to earthquake faulting and its seismological implications, 3A1314
ROGERS, LCG: Probability and dispersion theory, 3A1194
ROGERS, RJ: Equivalent viscous damping models of Coulomb friction in multi-dof vibration systems, 1A183
ROGERS, SE: Comparison of implicit schemes for the incompressible Navier-Stokes equations, 4A49
- Impulsive start of a symmetric airfoil at high angle of attack, 7A1154
- High-lift design optimization using Navier-Stokes equations, 11A1021
ROGERSON, GA: Small amplitude vibrations of pre-stressed laminates, 12A167
ROGG, B: PDF modeling of autoignition in non-primixed turbulent flows, 2A1178
- Two-dimensional simulation of turbulent autoignition with transient laminar flamelet source term closure, 2A1180
- Modeling and simulation of sprays in laminar flames, 11A937
ROGLANS, J: Scram reliability under seismic conditions at the Experimental Breeder Reactor II, 9A1416
ROHALY, TF: Fast numerical method for isothermal resin transfer mold filling, 10A593
ROHANI, B: Impact of thin-walled projectiles with concrete targets, 1A216
ROHATGI, US: Fluid Machinery - 1995 ASME/JSME Fluids Eng Conf, 2N37
- Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf, 2N38
- Sizing of an aircraft fuel pump, 1A1141
ROHLF, D: X-31A system identification using single-surface excitation at high angles of attack, 11A1032
ROHLMANN, A: Patient monitoring system for load measurement with spinal fixation devices, 7A1413
ROISMAN, IV: Penetration of a rigid projectile into an elastic-plastic target of finite thickness, 2A164
ROITHMAYR, CM: Motion of a spacecraft with magnetic damper, 12T269
ROKEY , MJ: Effects on operations of highly adaptive missions, 10A328
ROKHLIN, SI: Determination of fiber-matrix interphase moduli from experimental moduli of composites with multi-layered fibers, 2A430
- Ultrasonic evaluation of fatigue damage in metal matrix composites, 4A779
- Assessment of damage in ceramics and ceramic matrix composites using ultrasonic techniques, 5A634
- Oblique scattering of an elastic wave from a multilayered cylinder in a solid: Transfer matrix approach, 10A266
- Generalized self-consistent model for composites with functionally graded and multilayered interphases: Transfer matrix approach, 10A567
ROKHLIN, V: Generalized Gaussian quadrature rules for systems of arbitrary functions, 12A53
ROKHSAZ, K: Application of an artificial neural network as a flight test data estimator, 2A795
- Optimal feedback control of a nonlinear system: Wing rock examples, 6A289
- Prescribed pole placement with optimal weight selection for single-input controllable systems, 6T303
ROKNI, M: Attractor embedding in metal cutting, 1T717
- Characteristics of dimension functions associated with cutting measurements, 5A156
- Phase coupling in orthogonal cutting, 10T707
ROKUGO, K: Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), 9A910
ROKYTA, M: Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions, 3A69
ROM, J: Stability of hypersonic reacting stagnation flow of a detonatable gas mixture by dynamical systems analysis, 5A1224
ROMAGNONI, PC: New HVAC system based on cogeneration by an ic engine, 11A1233
ROMAN, I: Shakedown theorems extended to elastic non perfectly plastic bodies, 4T787
ROMANELLI, E: Effect of Poisson's ratio on the fundamental frequency of transverse vibration and buckling load of circular plates with variable profile, 12A160
ROMANENKO, LG: Longitudinal motion control system of surface effect vehicle, 8A314
- Designing longitudinal motion control system of surface effect vehicle with pitch and height separate control, 8A309
ROMANO, F: Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, 4A1288
- Deflections of Timoshenko beam with varying cross-section, 12A583
ROMANO, GP: Analysis of two-point velocity measurements in near-wall flows, 6A988
ROMANOV, AE: Generation of misfit dislocation structures at interphase boundaries in lamellar intermetallic compounds, 10A874
ROMANOV, AN: Wave technology in machinery manufacture, 12A471
ROMANOV, KI: Short-term creep of a zirconium alloy in the case of a complex stressed-strained state, 9T773
ROMANOV, VM: Method of calculating finite wing flow by stream of ideal incompressible fluid near the surface, 8A1025
ROMANOVA, TA: Synthesizing control systems for multi-dof manipulators, 9A464
ROMANOWICZ, B: Modelization and characterization of asymmetrical thermal micro-actuators, 10T464
ROMANOWSKI, J: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
ROMANYUK, SN: Friction laws in metal forming, 10T958
ROMEDAHL BROWN, T: Packaging of physical sensors for aggressive media applications, 10T445
ROMEO, A: K-dominance for a pressurized Griffith crack, 1T781
- Crack very close to a bimaterial interface, 5A619
- Stochastic parallel-brittle networks for modeling materials, 7A551
ROMEO, G: Nonlinear analysis of graphite-epoxy wing boxes under pure bending including lateral pressure, 5A994
ROMEO, M: Wave scattering from inhomogeneous anisotropic layers, 8A184
- Wave propagation in anisotropic layered media, 10A255
ROMEO, S: Dissipative terms of thermal nature in the theory of an ideal monoatomic superfluid, 8A8
ROMER, WW: Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, 9A1233
ROMERIO, MV: Stability criterion for an infinitely long Hall-Heroult cell, 12A1162
ROMERO, A: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
ROMERO, LA: Forced convection past a slender body in a saturated porous medium, 1A1166
- Low or high Peclet number flow past a prolate spheroid in a saturated porous medium, 1A1202
ROMERO-JIMENEZ, E: Surface-wave dispersion analysis in Mexico City, 2A1242
ROMITI, A: Kinematic analysis of a gearless articulated speed reducer, 2T65
ROMMEL, M: Estimation of atmospheric radiation from surface meteorological data, 11A1426
ROMO O, MP: Finite element analysis of dam-reservoir systems using an exact far-boundary condition, 12A852
RONAGH, HR: Calculation of eigenvectors with uniform accuracy, 1A125

- Rational model for the distortional buckling of tapered members, 12A616
RONG , HAIWU: Distribution model of fatigue life and its goodness-of-fit test, 7A800
RONNQVIST, M: Nested approach to structural optimization in nonsmooth mechanics, 3A760
RONOLD, KO: Probabilistic approach to the lengths of free pipeline spans, 9A1427
- Estimation of fatigue curves for design of composite laminates, 11A632
RONQUIST, EM: Convection treatment using spectral elements of different order, 7A63
ROOD, EP: Ship hydrodynamics basic research in the US, 6A1009
ROOK, TE: Modal truncation issues in synthesis procedures for vibratory power flow and dissipation, 9A210
- Mobility analysis of structure-borne noise power flow through bearings in gearbox-like structure, 10A1013
ROOKE, DP: Numerical simulation of the initiation and growth of new fatigue cracks following crack intersections, 1A742
- Boundary element analysis of crack intersection, initiation and growth at pin loaded holes, 2A46
- Single-region time domain BEM for dynamic crack problems, 2A49
- Dynamic effects of breaking stiffmers in cracked structures, 4A747
- Approximate analysis of dynamic contact between crack surfaces, 5A665
- Effect of thermal singularities on stress-intensity factors: Edge crack in rectangular and circular plate, 8A621
- Indirect BEM for 3D dynamic fracture mechanics, 9A849
- Laplace transform DBEM for mixed-mode dynamic crack analysis, 10A830
- Influence of elastic waves on dynamic stress intensity factors: 2D problems, 10A773
- Boundary element formulations for the dynamic analysis of cracked structures, 11A695
- Dual BEM for transient thermoelastic crack problems, 11A59
ROOMINA, MR: PDF integrals for self-similar turbulent flows, 5T1259
ROONEY, DM: Finite aspect ratio effects on vortex shedding behind two cylinders at angles of incidence, 1A1064
ROOS, JR: Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
- Laboratory testing of displacement and load induced fretting, 4T844
ROOZE, M: Moment arm length variations of selected muscles acting on talocrural and subtalar joints during movement: An *in vitro* study, 6A1315
ROSA, ES: Hydrodynamics modeling of a physiological flow simulator (Spanish), 4A1368
ROSA, L: Perturbation methods in torsion of thin hollow Saint-Venant cylinders, 8T380
- Extension of Kelvin and Bredt formulas, 11A411
ROSADO, L: Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, 2T1058
- Evaluation of fatigue and wear characteristics of M50 steel using MIL-L-7808K, 12A924
ROSAKIS, AJ: Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid, 5A1193
- Analysis of coherent gradient sensing by Fourier optics, 10T851
- Transonic crack growth along a bimaterial interface: An investigation of the asymptotic structure of near-tip fields, 11A693
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part II: Numerical simulations, 12A214
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part I: Experimental investigations of temperature signatures and propagation speed, 12A213
ROSATI, GP: Bond and splitting in reinforced concrete: Test results on bar pull-out, 11A746
ROSATI, L: Extremum theorems and a computational algorithm for an internal variable model of elastoplasticity, 4A463
- Automatic analysis of multicell thin-walled sections, 9A950
ROSBENBLUM, MG: Synchronization and chaotization in interacting dynamic systems, 1A106
ROSCHKE, P: Failure prediction for cross-rolled beryllium sheet material, 10A539
ROSE, JH: Mean and variance of the ultrasonic signal from a scatterer beneath a rough surface: Theory, 3A265
ROSE, JL: Boundary element solution for a mode conversion study on the edge reflection of Lamb waves, 9A273
- Source influence parameters on elastic guided waves in an orthotropic plate, 9A252
ROSE, JW: Condensation performance of some commercial integral fin tubes with steam and CFC113, 4A1183
ROSE, LRF: Self-consistent approximation for crack bridging by elastic-perfectly plastic ligaments, 11A667
ROSE, MG: Calculation of flow and heat transfer near the entrance to film-cooling holes using 3D mesh embedding with solution adaptation, 11A1070
ROSE, TA: Blast wave simulation using AUTODYN2D: A parametric study, 2A189
ROSEN, A: New model of rotor dynamics during pitch and roll of a hovering helicopter, 1A1134
- Model of the unsteady aerodynamics of a hovering helicopter rotor that includes variations of the wake geometry, 1A1133
ROSEN, D: Corner analysis in the BEM by the continuation approach, 5A45
ROSENBAND, V: Model for low-temperature ignition of magnesium particles, 2A1176
- Ignition of boron particles coated by a thin titanium film, 4A1250
ROSENBAUM, D: Influence of stretching and warm-up exercises on Achilles tendon reflex activity, 6A1379
ROSENBERG, SD: Test experience, 490-N high-performance [321-s specific impulse] engine, 2A1201
ROSENFELD, M: Identification of flow separation and vortices in internal periodic flows, 1A1056
- Numerical study of pulsating flow behind a constriction, 4A1039
- Calculation of streaklines for time periodic flows, 6A909
ROSENHOUSE, G: Discrete model for tubular acoustic systems with varying cross section - The direct and inverse problems - Part I: Theory, 4A317
- Use of Boundary Strip Method for evaluation of the transverse mechanical properties of fibrous composites, 4A536
- Discrete model for tubular acoustic systems with varying cross-section - The direct and inverse problems - Part 2: Experiments, 4A318
- Boundary strip method in elastostatics and potential equations, 7A515
- Three-dimensional analysis of stress and strain transmission through line joints of spatial linkage of plates, 8A489
- Losses in tubular acoustic systems: Theory and experiment in the sampled time and frequency domains, 9A393
ROSENTHAL, D: Holographic nondestructive testing, 4A769
ROSENTHAL, J: Dynamic pole assignment and Schubert calculus, 10T425
ROSIER, B: Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, 8A1054
ROSIER, M: Biorthogonal decompositions of the radon transform, 5T63
ROSNER, CN: Bolted connections for fiber-reinforced composite structural members: Experimental program, 3A510
- Bolted connections for fiber-reinforced composite structural members: Analytical model and design recommendations, 3A511
ROSNER, R: Evolution of helicity in the presence of turbulence: The limit of passive diffusion, 8T984
ROSOVA, EY: High-strength polyethylene film fibers, 6A460
ROSOWSKY, DV: High-clearance scaffold systems during construction - II: Structural analysis and development of design guidelines, 7A925
- High-clearance scaffold systems during construction - I: Structural modeling and modes of failure, 7A924
- Analysis of concrete placement load effects using influence surfaces, 9A907
ROSS JR, RG: Comparison of LCC solder joint life predictions with experimental data, 3A863
ROSS, CTF: Mechanics of Solids, 12R17
- Exploiting inherent parallelism in nonlinear FE analysis, 4A30
- Vibration of ring-stiffened circular cylinders under external water pressure, 12A177
ROSS, D: Power from the Waves, 10N41
ROSS, DS: Stefan problem for a reaction-diffusion system, 1A1307
ROSS, H: X-31 aircraft: Advances in aircraft agility and performance, 11A1031
ROSS, IM: Astrodynamics 1995: Advances in the Astronautical Sciences, Vol 90 Parts I and II, 6N7
- Formulation of stability conditions for systems containing driven rotors, 8A151
ROSS, JC: Experimental study of lift-enhancing tabs on a two-element airfoil, 2A1015
- Wake integration to predict wing span loading from a numerical simulation, 2T1025
ROSS, PJ: Two-dimensional interaction of a wetting front with an impervious layer: Analytical and numerical solutions, 4A1301
ROSS, R: Local effects of solid rocket motor exhaust on stratospheric ozone, 7A1345
ROSS-MURPHY, SB: Structure-property relationships in food biopolymer gels and solutions, 4A908
ROSSETTI, DJ: Comparison of actuation and sensing techniques for aircraft cabin noise control, 9A374
- Control effort weighting in feedforward adaptive control systems, 10A364
ROSSETTOS, JN: Axial and interfacial shear stresses due to thermal mismatch in hybrid composite sheets, 3A492
- Hybrid effect and matrix yielding at fiber breaks in hybrid composite sheets, 6A403
- Analysis of adhesively bonded joints with gaps subjected to bending, 11A829
ROSSI, RE: Numerical experiments on dynamic stiffening of a circular arch executing in-plane vibrations, 4T191
- Dynamic stiffening of orthogonal beam grillages, 4A789
ROSSIKHIN, YA: Analysis of nonlinear free vibrations of suspension bridges, 3A153
- Impact of a rigid sphere with an elastic layer of finite thickness, 3A437
- Effect of viscosity on vibrational processes in a combined suspension system, 3A154
- Methods for solving 1D boundary-value problems in a nonlinear elastic medium, 8A168
ROSSING, TD: Lord Rayleigh's contributions to musical acoustics, 3A243
ROSSIT, CA: Longitudinal vibrations of a prismatic bar suddenly subjected to a tensile load at one end when the other is elastically restrained, 5T121
- First-mode approximations of mass and compliance of a circular plate elastically restrained against rotation along the edge, 7A175
- Non-harmonic Fourier expansions in the case of a cantilever beam with a mass-spring combination at the free end, 10T152
ROSSMANITH, HP: Introduction to K Wieghardt's historical paper "On splitting and cracking of elastic bodies", 6T633
- Using dynamic photoelasticity to evaluate the influence of parting planes on stress waves interacting with stopes, 7A1370
ROSSO, F: Statically admissible stress fields for a plane masonry-like structure, 4A430
- Constant flow rate problem for fluids with increasing yield stress in a pipe, 5A863
ROSSOW, VJ: Validation of vortex-lattice method for loads on wings in lift-generated wakes, 5A1012
- Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, 9A1100
- Wake-vortex separation distances when flight-path corridors are constrained, 11A1025
ROSTASY, FS: Strength of concrete subjected to high temperature and biaxial stress: Experiments and modeling, 5A676
ROSZKOWSKI, J: Changes of methane mean concentration in preparatory works excavated in roadheaders (Polish), 3A1352
- Changes of the methane concentration in dog headings (Polish), 9T1406
ROTARESCU, MI: Theoretical analysis of tube spinning using balls, 6A555
ROTH , RB: Design optimization of a three dof variable-reluctance spherical wrist motor, 5A358
ROTH, EG: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279
ROTH, RB: Dynamic modeling and control of a ball-joint-like variable-reluctance spherical motor, 9A440
ROTHBART, HA: Mechanical Design Handbook, 10N22
ROTHMAN, DH: Lattice-Boltzmann simulations of flow through Fontainebleau sandstone, 4A1307
ROTOLI, G: Validity of Laplace formula and dependence of surface tension on curvature in second gradient fluids, 2T888
ROTS, JG: Two approaches for the analysis of masonry structures: Micro and macro-modeling, 11A765
ROTTER, H: Cracks at mortar-stone interfaces, 2A643
ROTTER, HM: Fracture mechanical behavior of aggregate-cement matrix interfaces, 3A719
ROTTER, JM: Rigorous statistical technique for inferring circular silo wall pressures from wall strain measurements, 8A784
- Local stiffening effect of "double deck" bending strain gauges - Part 1, 10A872
- Local stiffening effect of "double deck" bending strain gauges - Part 2, 12A805
ROTTGERMANN, A: Compressible potential flow around a helicopter rotor in arbitrary motion, 10A1103
ROTTIER, PJ: Ocean waves and sea ice, 2A177
ROTTMAN, JW: Numerical simulations of uniformly stratified fluid flow over topography, 7A1062
ROUGIER, Y: Plastic strain and residual stress fields induced by a homogeneous impact over the boundary of an elastic-plastic half-space, 4A466
ROUHANI, BD: Elastic vibrations of planar and deterministic rough surfaces, 9A358
ROUMELIOTIS, JA: Acoustic scattering from a sphere of small radius coated by a penetrable one, 5A267
ROUSE, M: Damage tolerance and failure analysis of a composite geodesically stiffened compression panel, 11A790
ROUSEFF, D: Effect of random sea surface and bottom roughness on propagation in shallow water, 5A263
ROUSSEAU, AN: Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part I: Flow field characteristics, 12A1053
- Computational fluid dynamics study of incomplete air mixing in a slot-ventilated enclosure - Part II: Mass transfer processes, 12A1298
ROUSSET, G: Consolidation around a volumic spherical decaying heat source, 3A1171
ROUX, JA: Manufacturing model for 3D irregular pultruded graphite-epoxy composites, 7A563
- Temperature and cure in pultruded composites using multi-step reaction model for resin, 9A724
- Thermal model for 3D irregular shaped pultruded fiberglass composites, 11A1252
ROUX, N: Experimental study of durability of reactive powder concretes, 7A544
- Mechanical properties of reactive powder concrete, 11A759
ROUX, S: Progressive damage in discrete models and consequences on continuum modeling, 6A634
ROVELLI, A: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371
ROVETTA, A: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
ROWATT, JD: Stochastic damage accumulation model for composite laminates, 3A701
ROWCLIFFE, DJ: Analysis of Berkovich indentation, 3A431
- Controlled indentation: A general approach to determine mechanical properties of brittle materials, 8A690
ROWE, RK: Simplified multi-layered flow model for use in a landfill design, 11A566
ROWELL, GH: Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, 11A708
ROWELL, MA: Determination of the directivity of a planar noise source by means of nearfield acoustical holography - Part III: Measurements on homogeneous, profiled and composite panels, 7A359
ROWINSKA, Z: Assessment of the dynamic tension in open end spinning and parameters of yarns, 6A177
ROWINSKI, E: Auger electron spectrometer SEA 02 in the study on NiTi alloy (Polish), 9A981
ROWLANDS, RE: Thermoelastic stress analysis of orthotropic composites, 2A1159
- Hybrid method to determine individual stresses in orthotropic composites using only measured isochromatic data, 6A453
ROWLEY, DI: Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, 6A1323
ROWSELL, EA: Influence of pinned joints on damping and dynamic behavior of a truss, 4A190
ROY , D: Conditional linearization in nonlinear random vibration, 8A97
ROY, A: Interaction of a penny-shaped crack with an elliptic crack, 6A685
- Microstructural and phase characteristics of phosphogypsum-cement mixtures, 7A547
- Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
ROY, AK: Minimum tooth difference in internal-external involute gear pair, 9A999
- Effect of carbonization heating rate, microstructure, and layup on the interlaminar tensile properties of a 2D carbon-carbon composite, 10A583
- In situ damage model observation and failure in model laminates containing planar yarn crimping of woven composites, 11A682
ROY, B: Effect of tip clearance at midspan section of controlled diffusion compressor cascade, 6A1033
ROY, BC: Consistency coefficient of a power-law flow of blood through the narrow vessel, 9A1448
ROY, D: Nonlinear dynamics of a rigid block on a rigid base, 9A683
ROY, DP: Experimental study of the discharge coefficient of pipe perforations, 3A877
ROY, P: Computational models of the effects of hydration on corneal biomechanics and the results of radial keratotomy, 11A1461
ROY, R: Development of a knowledge-based system for balancing complex mixed model assembly lines, 10A501
- Evaluation of wear of turning carbide inserts using neural networks, 12A904
ROY, RA: Nonlinear coupling between the surface and volume modes of an oscillating bubble, 3A938
ROY, RH: Estimating in-cylinder precombustion mixture temperatures using acoustic resonances, 9A1340
ROY, S: Optimal design of process variables in multi-pass wire drawing by genetic algorithms, 11A581
- Weak statement perturbation CFD algorithm with high-order phase accuracy for hyperbolic problems, 12A1065
ROY, SK: Fluid dynamics study of the Trac™ catheter, 7A1411
ROYAL, SA: Penetration erosion phenomenology, 10A280
ROYCHOWDHURY, AP: Effect of wall emissivities on radiation heat transfer in glass tank forehearths, 6A1132
ROYER, P: Macroscopic behavior of gas flow with adsorption through a fractured porous medium, 7T1359
ROYER-CARFAGNI, CF: Static state of a two-phase solid mixture in a stressed elastic bar, 10A569

- Alloy separation of a binary mixture in a stressed elastic sphere, 11A431
ROYLANCE, D: Mechanics of Materials, 7N17
ROYLES, R: Further assessment of numerical procedures for the study of fluid-structure interaction, 2A200
- Correlation between experimental and theoretical modal properties of an echinodome, 4A175
ROYSTER, LH: Using the BEM to investigate the wave propagation in a viscoelastic-acoustic system, 3A51
ROYTBURD, V: Finite-dimensional model of thermal instability, 2A1096
ROZLUSKI, CP: Correlation between the telluric and seismic activity, 3A1274
ROZMARYNOWSKI, B: Crane load modeling, 7A920
ROZVANY, G: Structural and Multidisciplinary Optimization - Proc of 1st World Congress of Structural and Multidisciplinary Optimization, May 28 - June 2, 1995, Goslar, Germany, 3N25
ROZVANY, GIN: Difficulties in truss topology optimization with stress, local buckling and system stability constraints, 12A811
- Improved approximation technique for the DCOC method of sizing optimization, 12A814
ROZYNSKI, G: Anisotropy of random fields in stochastic FEM, 9A17
RU, CQ: Morphological stability of a propagating domain wall in 2D ferroelastic transformations, 1A200
- Toughening due to transformations induced by a crack tip stress field in ferroelastic materials, 1A802
- Stability of a propagating interphase boundary in a thermoplastic material, 5A1189
RUAN, GH: Crack growth of through and part-through thickness cracks under cyclic loading, 8A568
RUAN, RONGYAO: Strong consistency and convergence rate of parameter identification for bi-linear systems, 10T402
RUAN, XM: Flow measurements in an aortocoronary bypass graft casting, 11A1471
RUAN, Y: Steady-state thermomechanical analysis of continuously quenched materials, 12A1275
RUAS, V: Velocity-vorticity formulation of the Stokes system in 2D and 3D spaces, 2T878
RUATTA, S: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
RUBADEUX, KL: Spur, helical, and spiral bevel transmission life modeling, 8A808
RUBAN, AI: Instability in supersonic boundary-layer flow over a compression ramp, 4A1057
- Generation of Tollmien-Schlichting waves by free-stream turbulence, 10A1135
- Numerical methods in the theory of boundary-layer inviscid flow interaction, 10A1144
RUBASH, HE: Physical modeling of hip joint forces in stair climbing, 9A1439
RUBENACKER, S: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $T_{GF\beta}$-release in response to cyclic strain, 5A1373
RUBIN , H: Simulation of immiscible multiphase flow in porous media: A focus on the capillary fringe of oil-contaminated aquifers, 9A1364
RUBIN, AJ: Use of fluorspar in water fluoridation, 6T1304
RUBIN, AM: Contact problem of a ball and an elliptic race in the case of a two-point initial touch, 12T960
RUBIN, CA: Contribution of surface irregularities to rolling contact plasticity in bearing steels, 5A439
- Influence of indent geometry on repeated 2D rolling contact, 5T800
- Thermal-mechanical modeling of the rolling-plus-sliding with frictional heating of a locomotive wheel, 5A779
- Finite element analysis of rolling contact for nonlinear kinematic hardening bearing steel, 5T9
RUBIN, CT: Effects of anisotropy and material axis registration on computed stress and strain distributions in the turkey ulna, 6A1312
RUBIN, ES: Coal: Energy for the future, 6T1203
RUBIN, H: Theoretical study of a laminar jet in a double-diffusion environment, 5A948
- Experimental study of a laminar jet in a double-diffusion environment, 5A949
RUBIN, MB: Restrictions on nonlinear constitutive equations for elastic shells, 1A602
- Incremental elastic-viscoplastic theory indicating a reduced modulus for non-proportional buckling, 1A510
- Penetration of a rigid projectile into an elastic-plastic target of finite thickness, 2A164
- Modeling added compressibility of porosity and the thermomechanical response of wet porous rock with application to Mt Helen Tuff, 5A1304
- Calculation hyperelastic response of finitely deformed elastic-viscoplastic materials, 6A401
RUBINI, PA: Assessment of a differential total absorptivity solution to the radiative transfer equation as applied in the discrete transfer radiation model, 10A1300
RUBINOWICZ, W: Theoretical Mechanics, Seventh Edition (Polish), 3N10
RUBINSKY, B: Phase transformation in materials with nonuniform phase transition temperatures, 3T1120
RUBINSTEIN, D: Direct and inverse dynamics of a very flexible beam, 12A144
RUBINSTEIN, J: Equilibrium position of Ginzburg Landau vortices, 2A506
- Slow motion of vortices in the Ginzburg-Landau heat flow, 3A568
- Mean-field model of superconducting vortices, 11A559
RUBIO, G: Accurate numerical integration of stiff differential Riccati equations, 1A66
RUBIO, JE: Optimal control of the linear wave equation, 10T414
RUBOW, KL: Comparative study of pressure reducers for aerosol sampling from high purity gases, 4A1282
RUBTSOV, NA: Combined heat transfer in disperse systems with particles undergoing a metal-insulator transition, 5A1173
RUCKMAN, CE: Optimizing actuator locations in active noise control systems using subset selection, 3A286
- Isolated structural system using localized vibration control, 7A137
RUDD, CD: 4th International Conference on Automated Composites, Nottingham UK, Sept 6-7, 1995, 8A557
- Cycle time reduction in resin transfer molding by phased catalyst injection, 9A719
RUDD, CK: Laminate temperature distributions and filling time prediction during non-isothermal impregnation of fiber preforms, 2A555
RUDD, L: Thrust cone lubrication - Part 3: A test facility and preliminary measured data, 11A821
RUDELSON, M: Complete characterization of the possible bulk and shear moduli of planar polycrystals, 12A3
RUDENKO, OV: Acoustic radiation force and streaming induced by focused nonlinear ultrasound in a dissipative medium, 10A371
RUDEV, AN: Necessary and sufficient criteria for ellipticity of the equilibrium equations of a nonlinearly elastic medium, 2A362
RUDGE, MRH: Interfacial stress singularities in a bimaterial wedge, 8A385
RUDIGER, EN: Integration of in-site control systems in laser welding processes (French), 4A873
RUDIN, G: Temperature field in a multilayer assembly affected by a local laser heating, 2A1129
RUDNEV, AM: Carbon-fiber-titanium silicide interphase-titanium-matrix composites: Fabrication, structure and mechanical properties, 6A421
RUDNICKI, J: Analysis of relationships between plasma nitriding time, thickness of the cases produced, and fatigue strength of steels (Polish), 9T747
RUDNITSKY, VA: Material testing by the method of dynamic indentation, 10A850
RUDOLPH, J: Linear and nonlinear FE analyses of pipe bends, 9A33
RUDOWSKI, J: Minimum safe impulsive velocity in the driven escape oscillator, 11A92
RUDRAIAH, N: Combined surface tension and buoyancy-driven convection in a rectangular open cavity in the presence of a magnetic field, 5A1163
RUDRAKUMAR, S: Viscous drag reduction using riblets on NACA 0012 airfoil to moderate incidence, 9A1140
RUDYAK, VY: Inviscid instability of annular shear layers, 2A980
RUDYAK, YA: Experimental method of determining the stress-strained state (Russian), 7T877
RUDZITIS, J: Contact of surface asperities in wear, 10T980
RUE, H: Two-dimensional Weibull distribution and its application to rolling, 5A205
RUEGSEGGER, P: Analysis of mechanical properties of cancellous bone under conditions of simulated bone atrophy, 12A1442
RUEL, F: Assessment of some iterative methods for non-symmetric linear systems arising in computational fluid dynamics, 5A904
RUF, HJ: Acouso-optic imaging of focused ultrasound pressure fields, 1A355
RUFFIN, E: Numerical modeling of variable density turbulent jets, 8A1115
RUFFIN, SM: Prediction of vibrational relaxation in hypersonic expanding flows - Part 2: Results, 1A1019
- Prediction of vibrational relaxation in hypersonic expanding flows - Part 1: Model development, 1A1018
RUGE, P: Hybrid time-FEs with time-step-adaption by discontinuity control, 10A32
RUGGIERI, C: Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), 12A776
RUHLE, M: Artificial neural networks for the prediction of mechanical behavior of metal matrix composites, 3A493
RUHUL AMIN, M: Effects of multiple obstructions on conjugate forced convection heat transfer in tubes, 8A1069
RUIJL, TAM: Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, 10A1020
RUINA, A: Why K? High order singularities and small scale yielding, 4A698
RUIZ, J: Modeling austenite flow curves in low alloy and microalloyed steels, 5A442
RUIZ, SE: Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistory frames, 4A1335
RUIZ, V: Statistical distribution of the clearness index with radiation data integrated over five minute intervals, 5A1358
RUIZ-CALAVERA, LP: Minimum induced drag of a three-surface ultra high capacity aircraft, 2A1034
RUJBROVA, B: Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), 11A149
RULEWSKI, J: Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, 4A1138
RUMELHART, C: Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones, 6T1331
RUMPF, M: Variational approach to optimal meshes, 7A11
RUMSEY, C: Prediction of nonequilibrium turbulent flows with explicit algebraic stress models, 4A1081
RUMSEY, CL: Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, 8A990
RUMYANTSEV, SV: Extreme Methods for Solving Ill-Posed Problems with Applications to Inverse Heat Transfer Problems, 10R32
RUNDELL, W: Iterative methods for the reconstruction of an inverse potential problem, 12A1365
RUNESSON, K: Modeling of plasticity and damage in a polycrystalline microstructure, 5A433
- Effect of pore fluid compressibility on localization in elastic-plastic porous solids under undrained conditions, 8A434
- Element-embedded localization band based on regularized displacement discontinuity, 10A759
RUNGGALDIER, WJ: Deterministic approximation for stochastic control problems, 7A386
RUOFF, AL: Optimal design of diamond anvils using FE analysis and simplified plasticity equilibrium equations, 9A887
RUP, K: Transient natural convection heat transfer in non-Newtonian second order fluids, 6A1093
RUPERTI JR, NJ: Method for the solution of the coupled inverse heat conduction-radiation problem, 8A1182
RUSAK, Z: Transonic flow around optimum critical airfoils, 2A903
RUSAKEVICH, Z: Modeling of the convective diffusive process with nonlinear sorption in multi-layered aquifer, 1A1358
RUSAKOV, NL: Application of foam insulation for remediation of degraded permafrost, 11A567
RUSAKOVSKII, YI: Aero- and gas-dynamics of flight vehicles and their engines: Configuration of surface effect vehicle studied in wind tunnel, 8A1021
RUSCAK, M: Structural aspects of the environmentally-assisted cracking of WWER 440 dissimilar weld joints, 10A746
RUSEK, JJ: New decomposition catalysts and characterization techniques for rocket-grade hydrogen peroxide, 11A1293
RUSHCHITSKII, YY: Wave triplets in two-phase composites, 7A239
RUSINKO, K: Description of the stress relaxation process under plane stress conditions, 1A481
RUSINSKI, E: Finite element analysis of fractured tibia treated with ZESPOL stabilizer, 10A1481
RUSNAK, I: Exponential criterion-based guidance law for acceleration constrained missile and maneuvering target, 11T308
RUSSEL-SMYTH, J: Stability of walking frames, 8A1451
RUSSELL, CT: Planetary Data System, 8A233
RUSSELL, DA: Backscattering from a baffled finite plate strip with fuzzy attachments, 1A322
- Fundamental structural-acoustic idealizations for structures with fuzzy internals, 5A256
RUSSELL, LM: Radial differential mobility analyzer, 2A1209
- Axisymmetric instrument response resulting from mixing effects in accelerated DMA-CPC measurements, 4A1281
RUSSELL, RD: Fiber optic time break, 6A1258
RUSSELL, SS: Low velocity impact damage in filament-wound composite pressure bottles, 11A186
RUSSEV, RG: Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, 7A409
RUSSO, A: A posteriori error estimators for the Stokes problem, 2A876
RUSSO, G: Kinetic theory for bubbly flow - II: Fluid dynamic limit, 9A1116
- Kinetic theory for bubbly flow - I: Collisionless case, 9A1115
RUSSO, GP: Experimental comparison of two adaptation strategies in an adaptive-walls wind-tunnel, 2A1072
RUSSO, M: Dynamic behavior of tilting-pad journal bearings, 4A853
- Journal orbits and their stability for rigid unbalanced rotors, 5A143
- Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, 12A123
RUSSO, R: Dynamic behavior of tilting-pad journal bearings, 4A853
- Journal orbits and their stability for rigid unbalanced rotors, 5A143
- Stability of periodic motions of an unbalanced rigid rotor on lubricated journal bearings, 12A123
RUSSO, RE: Heat transfer in excimer laser melting of thin polysilicon layers, 3A1119
- Temperature measurement during high-intensity laser-liquid interactions, 8A1122
RUSSO, TC: Improvements in bio-mechanical adhesion of screws used in medical fold: First application in spinal surgery, 2A1315
RUSTAN, P: Clementine engineering experiments program, 5A742
RUSTEN, T: Interior penalty preconditioners for mixed FE approximations of elliptic problems, 9A60
RUTENBERG, A: Three-dimensional analysis of stress and strain transmission through line joints of spatial linkage of plates, 8A489
- Eccentric seismic pounding of symmetric buildings, 8A1339
RUTER, H: Frequency-dependent Q-estimation of Love-type channel waves and the application of Q-correction to seismograms, 3A182
RUTHERFORD, JW: Sizing methodology for reaction-driven, stopped-rotor vertical takeoff and landing concepts, 5A1070
RUTHERFORD, KL: Micro-scale abrasive wear testing of PVD coatings on curved substrates, 10T1002
RUTKOWSKI, J: Assessment of the opening degree of cotton based on compression of fiber aggregations, 9A561
RUTKOWSKI, MJ: Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, 6A1035
RUTLAND, CA: Strain measurements using real time X-ray images, 2A690
RUTLAND, CJ: Premixed flame effects on turbulence and pressure-related terms, 1A1322
- Development and testing diesel engine CFD models, 3A1241
RUTLEDGE, DC: Two dof model for jerk optimal vehicle suspensions, 7A410
RUTLEDGE, WH: Navier-Stokes computations of heat transfer for high-speed flows, 11A921
RUTT, BK: MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, 8T1438
RUYTEN, WM: Simple geometric model for estimating the impingement current on ion thruster grids, 8A1295
RUZANOV, FI: Estimation of the effect of nonuniform mechanical properties of sheet metal on the critical parameters of axisymmetric drawing and flanging, 10T706
RUZICKA, GC: Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, 6A1035
RYABEN'KII, VS: Artificial boundary conditions for the numerical solution of external viscous flow problems, 2A891
RYABOY, VM: Limiting performance estimates for the active vibration isolation in multi-dof mechanical systems, 2A147
- Simple model of a stiffened shell-type structure for an investigation into the vibration-buckling correlation, 12A174
RYABUKHA, YN: Excitation by nonstationary electric signals of a thin-walled radially-polarized piezoceramic cylinder (Russian), 3A567
- Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, 7A235
- Excitation of a thick-walled piezoceramic sphere by nonstationary electric pulses, 10T643
RYAN III, GW: Evaluation of several agility metrics for fighter aircraft using optimal trajectory analysis, 1A1116
RYAN, ME: Effect of die geometry and flow characteristics on viscoelastic annular swell, 4A445
RYAN, MW: Adaptive passive vibration control, 7A393
RYBAK, LA: Digitally controlled invariant active vibration-isolation system for microgravity protection, 7A397
RYBAK, W: Fluidized bed feeding of carbon black particles, 3A1222
RYBAKOV, LS: Theory of a plane regular elastic latticed structure, 10A933
RYBCZYNSKI, J: Analogue simulation of dynamic states of rotormachines applicable to their diagnostics (Polish), 9A205
RYBERG, T: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391
RYBICKI, C: Peculiarities of two-phase flow in coalbeds, 2A934
- Peculiarities of two-phase flow in coalbeds, 3A933
RYCHAGOV, MN: Reconstruction of fluid motion in acoustic diffraction tomography, 10A1237
RYCHLEWSKI, J: Unconventional approach to linear elasticity, 1A453

- Two-dimensional Hooke's tensors: Isotropic decomposition, effective symmetry criteria, 10A523
RYCHLICKI, G: Indispensability of the use of calorimetric measurements for the description of adsorption processes in microporous systems, 5A1124
RYCHLICKI, S: Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), 3A590
RYDELEK, PA: Earthquake slip rise time and rupture propagation: Numerical results of the quantum earthquake model, 12A1359
RYDEN, R: Influences of flame-vortex interactions on formation of oxides of nitrogen in curved methane-air diffusion flamelets, 10A1361
RYDIN, RW: Influence of reinforcing layer orientation on impact response of plain weave RTM composites, 4A499
- Inclastic energy curves: A tool for evaluating the impact response of composite plates, 4A523
RYLANDER, R: Annoyance caused by noise from heavy weapon shooting ranges, 10A336
RYLEY, MD: Performance of push-in spade cells installed in stiff clay, 2T514
RYMARZ, C: Barotropic instabilities of the type of self-organization in zonal westerly flow, 9A8
RYMARZ, P: Surface pressure measurements on a pitching swept wing in a water channel, 3A989
RYMSZA, J: History of vaulted bridges (Polish), 10A915
RYTER, SW: Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, 11A1409
RYU, JI-CHEOL: Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, 12A1300
RYU, T: Polygonal deformation of roll-covering rubber, 9A278
RYVKIN, M: Scale effect in the thin layer delamination problem, 2A656
RYZHAK, EI: Stable supercritical deformation of elastoplastic specimens constrained by a casing with finite stiffness, 6T397
RZADKOWSKI, R: Transient nozzle excitation of mistuned bladed discs, 8A155

S

SA DA COSTA, JMG: Elastic-link manipulators: Modeling, simulation, and experiments, 10A482
SAAD, Y: Robust preconditioning of large, sparse, symmetric eigenvalue problems, 6A67
SAADA, AS: Liquefaction under random loading: Unit energy approach, 3A575
SAADA, RA: Thermomechanical behavior of casting sands: Experiments and elastoplastic modeling, 12A1279
SAADATMANESH, H: Fatigue-strength of pre-stressed composite steel-concrete beams, 6A757
- Strengthening of composite steel-concrete bridges, 6A770
- Design recommendations for bond of GFRP rebars to concrete, 8A744
SAADE, RG: Simulation of ice cover melting in turbulent flow, 1A1217
- Numerical modeling of ice jam resistance to main channel flow, 4A928
SAARELA, P: Postural stability and skilled performance: A study on top-level and naive rifle shooters, 6A1381
SAARLAS, M: Introduction to Aerospace Propulsion, 4R32
SAASEN, A: Dispersion relation at large frequencies for linear surface gravity waves on a Maxwell fluid-exhibiting a spatial decay, 8A200
SAATCIOGLU, M: Confined columns under eccentric loading, 3A775
SABA, CS: Effects of lubricant born solid debris in rolling surface contacts, 6T819
SABAR, H: Micromechanical modeling of the transformation induced plasticity (TRIP) phenomenon in steels, 2A396
SABATIER, JM: Sound field within a rigid porous layer, 1A320
- Surface impedance of grounds with exponential porosity profiles, 6A250
SABATINI, M: Generation of stable limit cycles in controllable linear systems, 12T112
SABATINI, PJ: Effect of consolidation on strain localization of soft clays, 11A564
SABAU, AS: Dynamics of a gas permeable contact lens during blinking, 12A1478
SABBADINI, D: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
SABBAN, NA: Soil modification by cement kiln dust, 3A489
SABELNIKOV, VA: Equations for the concentration probability distribution function in turbulent mixing and combustion problems, 10T1358
- Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094
SABERI, H: Comprehensive aeromechanics analysis of complex rotorcraft using 2GCHAS, 6A1035
SABETTA, F: Estimation of response spectra and simulation of nonstationary earthquake ground motions, 11A1400
SABIA, D: Hierarchical use of neural techniques in structural damage recognition, 7A804
SABIN, GCW: Impedances for radially inhomogeneous viscoelastic soil media, 1A694
- Inertial effects in a steady-state normal viscoelastic contact problem, 3A452
SABIN, MA: Hexahedral mesh generation by medial surface subdivision - Part I: Solids with convex edges, 2A31
SABIR, AB: Strain-based FE for the out-of-plane vibration of curved beams, 3A38
- Natural frequencies of cylindrical shells using a shallow-shell FE, 3A135
SABIR, BB: Performance of isoparametric FEs in stress intensity factor determination, 6A17
SABIR, H: Investigation of effects of wave motion on the performance of a falling film absorber, 11A1231
SABIR, M: Fracture of paramagnets and soft ferromagnets, 12A636
SABLIK, J: Film flotation method applied to determine surface energy of coal wetted with flotation agents, 3A1354
SABLJIC, DB: Influence of a damage zone on high temperature crack growth in brittle materials, 3A711
SABOYA, FEM: Initial values searching method for solving non-similar boundary layer problems by the local non-similarity model, 7A1099
SABRIA, J: Study of the abrasive resistance of metal alloys with applications in dental prosthetic fixators, 3A1419
SABURI, K: Energy input and dissipation behavior of structures with hysteretic dampers, 10A1437
SACADURA, JF: Heat transfer in open-cell foam insulation, 8A1181
- Method for the solution of the coupled inverse heat conduction-radiation problem, 8A1182
SACCO, E: Delamination model for laminated composites, 4A690
SACCO, R: Perturbation approach for low frequency noise in junction field effect transistors, 7A71
- Exponentially fitted shape functions for advection-dominated flow problems in 2D, 11A1270
SACCOMANDI, G: Universal solutions for totally incxtensible isotropic elastic materials, 7A492
- Universal relations in constrained elasticity, 11A420
SACHDEV, PL: Regular and chaotic flows in paraboloidal basins and eddies, 9A1058
SACHS, EW: Solution of optimal control problems by a pointwise projected Newton method, 4T358
SACHSE, W: Determination of all elastic constants of orthotropic plate specimens from group velocity data, 6T693
- Transient elastic waves in a transversely isotropic plate, 12A215
SACHWEH, BA: Distinguishing between spherical and nonspherical particles by measuring the variability in azimuthal light scattering, 2A1202
SACK, DA: Advanced NDT methods for evaluating concrete bridges and other structures, 6A766
SACK, N: Transient heat transfer from surfaces of defined roughness into liquid nitrogen, 8A1124
SACK, RL: Controlled semiactive hydraulic vibration absorber for bridges, 7A912
SACKFIELD, A: Comparison of plane and axisymmetric contacts between elastically dissimilar bodies, 10T990
- SACKS, IS: Earthquake slip rise time and rupture propagation: Numerical results of the quantum earthquake model, 12A1359
SACKSTEDER, K: Effect of ambient pressure on flame spread over thin cellulosic fuel in a quiescent, microgravity environment, 8A1274
SADA, K: Wind tunnel experiment on flow and tracer gas diffusion in convective planetary boundary layer, 7A1388
SADASIVAN, P: Issues in CHF modeling - The need for new experiments, 3A1078
SADAT, H: Application of the diffuse approximation for solving fluid flow and heat transfer problems, 3T1075
- Collocated diffuse approximation method for 2D incompressible channel flows, 7T1067
- Diffuse approximation method for solving natural convection in porous media, 9A1370
SADATI, SH: Minimizing interceptor size using neural networks for terminal guidance law synthesis, 11T312
SADATOMI, M: Prediction of the single-phase turbulent mixing rate between two parallel subchannels using a subchannel geometry factor, 11A1423
SADD, M: Combined experimental and numerical scheme for the determination of contact loads between cemented particles, 7A543
SADEGH, AM: Implementation of strain rate as a bone remodeling stimulus, 5A1365
SADEGH, N: Theory and implementation of a repetitive robot controller with Cartesian trajectory description, 9A465
SADEGHI, S: New semi-automatic method for node numbering in a FE mesh, 3A32
SADEGI, F: Contact of elastic bodies with thin viscoelastic coatings under conditions of rolling or sliding friction, 7A504
SADEH, I: Universal data compression based on approximate string matching, 9T132
SADEK, EA: Minimum weight design of structures under frequency and frequency response constraints, 11A726
SADEK, IS: Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part I: Theory, 3T324
- Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, 4T352
- Maximum principle for the optimal control of a hyperbolic equation in two space dimensions, 6A285
SADHAL, SS: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 3, 3N34
SADHUKHAN, D: FB neurocontroller based on dynamic inversion, 6A341
SADIGH, K: Magnitude-dependent variance of peak ground acceleration, 2A1241
SADO, D: Damping effect in forced vibrations of an autoparametric two-dof system, 3A117
SADOVSKII, VM: Calculation of elastic deformation of the elements of a wave gearing, 10A1031
SADOVSKY, Z: First-order third-moment reliability method, 7A923
SADOWSKI, T: Mechanical response of semi-brittle ceramics subjected to tension-compression state - Part II: Description of deformation process, 4A743
SADREHAGHIGHI, I: Grid sensitivity and aerodynamic optimization of generic airfoils, 5A1018
SAEGER, RB: Transport processes in periodic porous media, 2A1217
SAEKI, M: Single point diamond turning of chalcone organic nonlinear optical crystals for second harmonic generation (Japanese), 4T660
SAEKI, T: Quantative estimation of steel corrosion in mortar due to carbination (Japanese), 9A923
SAETHER, E: [1,2]-order theory for elastodynamic analysis of thick orthotropic shells, 1A626
- Closed-form derivation of an 8-node hexahedral element stiffness matrix by the hybrid stress method, 2A18
SAETTA, A: Silent boundary conditions for wave propagation in saturated porous media, 10A1424
SAFAEINILI, A: Air-coupled ultrasonic characterization of composite plates, 2A695
- Floquet analysis of guided waves in periodically layered composites, 3A300
- Precision ultrasonic reflection studies in fluid-coupled plates, 10A357
SAFARIEV, MS: Development of plate analogy for calculating strength of airfoils of surface effect vehicles, 8A778
SAFARIK, P: Optimal shock wave parameters for supersonic inlets, 6A966
SAFIULLIN, DH: Calculation of mechanical characteristics of composite materials based on the results of the multilayered structure work (Russian), 7A590
SAFJAN, A: High-order Taylor-Galerkin methods for linear hyperbolic systems, 1A59
SAFRONOV, AI: Calculation of longitudinal oscillations of a thread of variable length with the load at its end under the load "jump" (Russian), 3A127
SAGARA, K: Response of a centrifugal pump to fluctuating rotational speed, 5A1026
SAGIROGLU, S: Synergistic neural models of a robot sensor for part orientation detection, 7A452
SAGOMONYAN, EA: New generalization of the Cagniard-De Hoop method for absorbing media, 3A184
SAHA, KN: Free vibration analysis of rectangular Mindlin plates with elastic restraints uniformly distributed along the edges, 11A114
SAHA, RK: Effect of common process noise on two-sensor track fusion, 12A384
SAHA, S: Experimental investigation on the effect of vibration on flow of liquid film in a horizontal duct, 4A952
SAHA, SK: Design of kinematically isotropic rolling robots with omnidirectional wheels, 2A296
SAHA, TK: Interaction of a penny-shaped crack with an elliptic crack, 6A685
SAHA, UK: Effect of tip clearance at midspan section of controlled diffusion compressor cascade, 6A1033
SAHASRABUDDHE, GG: Temperature dependence of the ultrasonic Grueneisen parameter and ultrasonic attenuation in pure germanium, 3A245
SAHASRABUDHE, AD: Analysis of inertance due to the higher order mode effects in a sudden area discontinuity, 1A292
SAHAY, C: Study of print release process in solder paste printing, 3A867
- Tool temperatures and crack development in milling cutters, 3A645
- Determination of parameters affecting solder paste tack strength as measured in the IPC tack test: A classical design of experiments approach, 12A706
SAHETCHIAN, K: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
SAHIMI, M: Reply to "comment on fractal and superdiffusive transport and hydrodynamic dispersion in heterogeneous porous media", 4T1298
SAHIN, AZ: Active cooling of a hypersonic plate using hydrogen, methane, oxygen and fluorine, 8A1006
SAHIN, B: Pressure drop and flow characteristics of wide-angle screened diffusers of large area ratio, 4T1043
SAHINIDIS, NK: Global optimization algorithms for chip layout and compaction, 6A368
SAHOO, T: Reflection of water waves by a nearly vertical porous wall, 11A198
SAHU, JUBARAJ: Application of chimera technique to projectiles in relative motion, 5A1015
SAI, K: Study of plastic-viscoplastic models with various inelastic mechanisms, 5A453
SAI, VA: Analysis of the Baldwin-Barth and Spalart-Allmaras one-equation turbulence models, 3T971
SAIB, KS: Effect of short carbon fiber reinforcement on fatigue crack growth in PEEK, 12A710
SAIDANI, M: Adjustment of stiffness matrices, 7A961
SAIGAL, A: Forging of compressor blades: Temperature and ram velocity effects, 5A1045
SAIGAL, S: Completed Beltrami-Michell formulation for analyzing mixed boundary value problems in elasticity, 6A376
- Stochastic BEM: Random excitations and time-domain analysis, 10A61
- Solution for the contact between two spherical particles undergoing large deformation, 12A560
SAIIDI, M: Parameters in bridge restrainer design for seismic retrofit, 6A1283
SAIKA, T: Effects of a ring crevice on hydrocarbon emission from spark ignition engines, 8A1255
SAIKI, EM: Numerical simulation of a cylinder in uniform flow: Application of a virtual boundary method, 7T1064
SAILLARD, M: Coordinate-spectral method for rough surface scattering, 10A261
- Coordinate-spectral method for rough surface scattering, 11A176
SAIN, K: Direct method of calculating interval velocities and layer thicknesses from wide-angle seismic reflection times, 10A1426
SAIN, MK: Nonlinear control strategies for limiting dynamic response extremes, 8A730
SAINI, RP: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237
SAINSAULIEU, L: Finite volume approximation of two phase-fluid flows based on an approximate Roe-type Riemann solver, 2T936
- Traveling waves solution of convection-diffusion systems whose convection terms are weakly nonconservative: Application to the modeling of two-phase fluid flows, 4A1002
- Numerical analysis of two operator splitting methods for an hyperbolic system of conservation laws with stiff relaxation terms, 5A924
SAINSOT, P: Numerical elastoplastic model for rough contact, 5A585
SAINT JEAN PAULIN, J: Homogenization for hydraulic drainage systems with periodically distributed 3D cavities, 9A1362
SAINT-GEORGES, P: High-performance PCG solvers for FEM structural analysis, 10A18
SAINT-MATIN, T: First step towards the modeling of the thermoforming of plastic sheets, 6A550
SAINTLOS, S: Asymptotic modeling for separating boundary layers in a channel, 5A938
SAITH, A: Application of SPSLIFE to preliminary design evaluation and life assessment of CSGT components, 5A633
SAITO, A: Development of gravel drain system as a countermeasure for soil liquefaction (Japanese), 4T605
SAITO, H: Combined forced and free laminar convective heat transfer from a vertical plate with coupling of discontinuous surface heating, 4A1157
SAITO, K: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541
- Proposition of an improved differential stereo vision method: Simultaneous measurement of 3D coordinate and inclination of surface, 3T413
- Generation of tool paths for a die sinking based on "skewed cube modeler": Application to stamping dies, 7A732
- Effect of a microdefect ahead of a main crack on strength of solids: Exact solution to the main crack-microdefect interaction model, 10A771
SAITO, N: Stress analysis of transistor structures considering the internal stress of thin films, 10A580
SAITO, O: Design of practically stable n-dimensional feedback systems: A state-space approach, 11A294
SAITO, S: Effect of blade-tip planform on shock wave of advancing helicopter blade, 2A1048
SAITO, T: Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, 3A460
- Experimental studies of supersonic film cooling with shock wave interaction, 7A1096
- Effect of blending particles with different conductivity on electrorheological properties, 11A856

SAITO, Y: Improvements on belt machined surface flatness by using fuzzy inference based on a simulational method, 1A724
- Prediction control of SDOF system, 2A737
- Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), 7A1012
SAITOH, M: Development of manufacturing roinforced concrete segment by centrifugal compaction (Japanese), 10A892
- Experimental studies and numerical analyses on the properties of a new type segment for gas pipeline shield tunnel (Japanese), 10A919
SAITOH, S: Simultaneous heat and mass transfer in packed bed catalytic reactors, 1A1220
- Fully-developed forced-convection heat transfer in cylindrical packed beds with constant wall heat fluxes, 11T154
SAITOU, H: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741
SAITOU, S: Application of neural networks to multiobjective optimization (Japanese), 11A717
SAIZUKA, K: Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), 1A1389
SAJBEN, M: Criterion for the detachment of laminar and turbulent boundary layers, 4A1032
SAJJADI, SG: Model for separated laminar flow over a wavy boundary with sharp crests, 5A1340
SAKA, M: Current density and temperature distribution near the corner of angled metal line, 2T1121
- Simplified NDE of a closed vertical crack using ultrasonics, 4A778
- NDE of a crack by using closely coupled probes for DCPD technique, 10A868
SAKA, N: Spark erosion behavior of silver-based particulate composites, 12A722
SAKA, Z: RSSR mechanisms with partially constant transmission angle, 12A982
- Double crank RSSR mechanism with constant transmission angle, 12A966
SAKABA, N: Effects of heat treatment on the creep crack growth of alloy 800H possessing long service history, 4A687
SAKAGAMI, K: Acoustic properties of an infinite elastic plate backed by multiple layers, 9A339
- Acoustic properties of permeable membranes, 10A361
SAKAGUCHI, K: Monitoring of friction welded joint performance using bonding evaluation factor, 7T480
SAKAGUCHI, T: Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, 4A1017
SAKAGUCHI, Y: Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), 9A1460
SAKAI, H: Study on the size effect of tensile characteristics of carbon fiber-reinforced cement composites, 7A556
SAKAI, I: Temperature distribution measurement in the rotating ceramic honeycomb core of rotary regenerators, 5T1293
SAKAI, K: New numerical schemes based on a criterion for constructing essentially stable and accurate numerical schemes for convection-dominated equations, 4A52
- Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), 4A863
- High grade precision polishing technique by a new polishing machine for chalcone crystals, 7T764
SAKAI, M: Near-tip toughening by crack-face bridging in particulate and platelet-reinforced ceramics, 8A655
SAKAI, S: Distribution of rainflow range for Gaussian random processes with bimodal PSD, 3A58
SAKAI, T: Numerical simulation of surface-sheared-sand layer (Japanese), 3A889
SAKAI, W: Nucleation of intergranular cracks during high temperature low cycle fatigue of SUS316 stainless steel, 11A636
SAKAI, Y: Study on the simulation of grinding process (2nd Report): Distribution of cutting edges on a grinding wheel surface (Japanese), 4T648
SAKAIDA, Y: Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), 3A724
- R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), 3A647
SAKAJO, T: Numerical computation of vortex sheet roll-up in the background shear flow, 8A884
SAKAKIBARA, S: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
SAKAMOTO, H: Case of high noise sensitivity, 3A284
SAKAMOTO, M: Experimental verification of bounded-force control method, 7A1378
- New method for theoretical analysis of static indentation test, 8A1439
SAKAMOTO, S: Effect of coolant of water-solution in superfinishing: Application of electrolytic in-process dressing (Japanese), 9A727
SAKAMOTO, T: Profile measurement using a liquid crystal projector: Measurements of surface with locally different reflectivity, 9T875
SAKAN, F: Real-time optical monitoring system for dye color and concentration, 10A858
SAKANE, M: Nonproportional low cycle fatigue criterion for type 304 stainless steel, 5A597
- Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), 7A895
- Cyclic constitutive relation in nonproportional plastic-creep loading (Japanese), 12A519
- Development of multiaxial creep testing machine using cruciform specimen (Japanese), 12A783
SAKATA , M: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - I: A rigid rotor system on flexible suspensions, 1A1138
SAKATA, E: Predicted progressive failure of reinforced concrete structure under controlled blasting-demolition (Japanese), 4A666
SAKATA, M: Vibration analysis of a high speed and light weight rotor system subjected to a pitching or turning motion - II: A flexible rotor system on flexible suspensions, 1A1139
- Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550
SAKATA, O: Secular changes in accuracy of an adhesive-bonded structure vertical milling machine, 7A485
SAKATA, T: Free vibrations of clamped symmetrically laminated skew plates, 7A159
- Natural frequencies of orthotropic rectangular plates obtained by iterative reduction of the partial differential equation, 7A160
- Free vibrations of a snowboard, 8A116
SAKAYA, K: Study on ultra fine NC polishing with constant cutting depth: Surface polishing characteristics and influence of viscosity of polishing compound (Japanese), 2A548
- Study on grinding-like polishing using magnetic fluid: Surface polishing characteristics of Si-wafer (Japanese), 5A578
SAKEVICH, VN: Improvement of wear resistance of crankshaft journals, 6T848
SAKIMOTO, SEH: Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, 4A1323
SAKIYAMA, T: In-plane and out-of-plane free vibrations of curved beams with variable sections, 4A158
- Free vibration analysis of anisotropic rectangular plates with various boundary conditions, 4A167
- Free vibration analysis of sandwich beam with elastic or viscoelastic core by applying the discrete Green function, 9A187
SAKO, S: Computational method for operations of multi-reservoir systems based on differential dynamic programming (Japanese), 3A341
SAKSENA, TK: Ultrasonic motor using low-frequency magnetostrictive excitation for continuous and stepwise angular rotation, 1A857
- Technique for sound velocity measurement in liquids using cavity resonance, 3A261
- Performance characteristics of a remote temperature sensing device based on acoustic pinger tags, 12A281
SAKUMA, K: General characteristics of two-phase flow distribution in a multipass tube, 9A1257
SAKUMOTO, Y: High-temperature properties of stainless steel for building structures, 10A935
SAKURAI, R: Effect of blending particles with different conductivity on electrorheological properties, 11A856
SAKURAI, S: Terminal block method, the new construction method of final joint in immersed tunnels (Japanese), 4T824
- Numerical simulation of post peak deformational behavior of rocks under uniaxial compression tests (Japanese), 4A627
- Evaluation of the effect of rock bolts based on field measurement results (Japanese), 7A716
- Modeling of the ground by CEM and determination of its input parameters (Japanese), 7A689
- Critical strain of non-homogeneous rock masses (Japanese), 10A691
SAKURAI, T: Sloshing analysis method using existing FEM structural analysis code, 5A21
- Effects of matrix ductility and progressive damage on fatigue strengths of unnotched and notched carbon fiber plain woven roving fabric laminates, 11A631
SAKUTA , S: Angle sensor with scanning tunneling microscopy (1st Report): Error analysis and pitch measurement with two scanning tunneling microscopy tips (Japanese), 9A439
SAKYA, AE: Capturing of transition by the RNG based algebraic turbulence model, 4A1022
SALA, G: Heated chamber winding of thermoplastic powder-impregnated composites - Part 2: Influence of degree of impregnation on mechanical properties, 9A722
- Heated chamber winding of thermoplastic powder-impregnated composites - Part I: Technology and basic thermochemical aspects, 9A721
SALA, R: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
SALAGAME, RR: Shape optimization with p adaptivity, 4A861
SALAGNAC, P: Diffuse approximation method for solving natural convection in porous media, 9A1370
SALAJEGHEH, E: Optimum design of plate and shell structures with discrete design variables, 2A731
- Discrete variable optimization of plate structures using dual methods, 5A690
- Approximate discrete variable optimization of plate structures using dual methods, 8A706
- Approximate discrete variable optimization of frame structures with dual methods, 10A921
- Optimum design of structures with reference to space structures, 10A927
SALAMA, M: Thin plate bending problem of dissimilar strips with two bond lines, 5A416
- Thin plate bending of dissimilar half-planes with interface debonding emanating from an elliptical hole, 8A660
- Stress concentration factors at an elliptical hole on the interface between bonded dissimilar half-planes under bending moment, 9A482
SALAMAT, AH: Confined columns under eccentric loading, 3A775
SALAMEH, ZM: Sizing of a stand-alone hybrid wind-photovoltaic system using a three-event probability density approximation, 11A1432
SALAMON, A: Positron annihilation study of the ageing effects in the Cu-Zn-Sn parent phase, 1A1297
SALAMON, NJ: Self-optimizing single-step algorithm for the numerical integration of parabolic equations, 1A78
- Solution of the 1D convection-diffusion equation by a multilevel Petrov-Galerkin method, 12A1299
SALAMON, TR: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388
SALANT, RF: Numerical study of two-phase mechanical seal stability, 2A819
- Elastohydrodynamic model of the rotary lip seal, 10A1225
SALAS, MD: Contribution to the optimal shape design of 2D internal flows with embedded shocks, 9T297
SALAS-BRITO, AL: Chaos in a variable mass relaxation oscillator model for the leaky tap, 6A99
SALAVERT, JM: Study on independent effects of diesel engine operating conditions on nitric oxide formation and emissions through schematical combustion simulation, 7A1403
SALAY, CR: Matching engine and aircraft lapse rates for high speed civil aircraft, 7A1177
SALAZAR, ME: High-angle-of-attack wind-tunnel investigation of a multimission vehicle, 1T1108
SALDANHA DA GAMA, RM: Constitutive relations for the energy transfer in nonsaturated continuous mixtures, 8A3
SALDNER, HO: Multi-channel pressure sensor using speckle interferometry, 3A411
- Influence of enclosed air on vibration modes of a shell structure, 4A176
- Calibrated noncontact exciters for optical modal analysis, 7A872
SALECK, FM: Multiscale seismic waveform inversion, 1A1384
SALEEB, AF: Constitutive Equations for Engineering Materials Volume I: Elasticity and Modeling, 1R14
SALEH, A: Analysis of braking a cylindrical boulder and application to bench blasting, 9A686
SALEM, WB: Laser-material interaction thermal-mechanical approach of laser assisted machining of Inconel 718 (French), 7T766
SALETNIK, MJ: Parameter estimation of structures from static strain measurements - I: Formulation, 10A906
SALETNIK, NJ: Parameter estimation of structures from static strain measurements - II: Error sensitivity analysis, 10A907
SALGADO, NK: Application of the dual BEM to the analysis of cracked stiffened panels, 10A826
SALGANIK, RL: Model of brittle-dominated wear due to delayed fracture: Vertical crack growth, 3A646
SALIBA, JE: Prediction of force-time histories in thick steel plates due to penetration by tungsten rods at velocities of 1.5-2.5 km s^{-1}, 8A190
SALIEM, MM: Wave propagation in layered media under initial stresses, 7A238
SALIM, HA: Local deck effects in stress-laminated T-system timber bridges, 4A819
SALIMBENI, R: Diagnostic set-up for time-resolved imaging of laser-induced ablation, 10T720
SALIMULLAH, M: Modification and damping of Alfven waves in a magnetized dusty plasma, 3A980
SALIN, D: Coupling in a model porous medium geometry: Effect of fluid contact area, 8A1309
SALLEH, M: Optimization of a miniature laser-EMAT system for pulsed ultrasonics, 10A862
SALLSTROM, JH: Accurate calculation of elastic buckling loads for space frames built up of uniform beams with open thin-walled cross-section, 12A617
SALMON, DC: Quadratic order elastic foundation FE, 4A10
SALMOND, D: Bayesian state estimation for tracking and guidance using the bootstrap filter, 4T339
SALMONS, S: Novel video technique for visualizing flow structures in cardiovascular models, 6A1359
- Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
SALOKHE, VM: Vibration characteristics of a power tiller, 9A220
- Dynamics of a powered disk in clay soil, 10A659
SALOMEIA, L: Optimal control in minimum time of the operating unbalanced rigid rotors, 11A128
SALOMONS, EM: Noise barriers in a refracting atmosphere, 12A296
SALPEKAR, SA: Analysis of local delaminations caused by angle ply matrix cracks, 10A788
SALTERS, DG: Breakup zone of a diesel spray - Part I: Length of zone and volume of unatomized liquid, 5T1246
SALTIEL, C: Numerical modeling of materials processing in microwave furnaces, 8A999
- Three-dimensional fluid flow and heat transfer analysis of grate blocks in a waste-to-energy power plant, 12A1225
SALTZ, J: Parallel Monte Carlo simulation of 3D flow over a flat plate, 1A1017
SALUPERE, A: KdV soliton formation and discrete spectral analysis, 10A289
SALUSTI, E: Pressure and temperature dynamics in fluid-saturated porous-permeable rocks, 7A1362
SALVADOR, FR: Continuous path control using clothoid curves, 9A396
SALVATI, LA: Sediment-induced amplification in the northeastern US: A case study in Providence, Rhode Island, 3A1279
SALVATORE, F: Forces and moments in incompressible quasi-potential flows, 11T871
SALVETTI, MV: Numerical simulations of transitional axisymmetric coaxial jets, 9A1135
SALVINI, P: Finite strain analysis by image processing: Smoothing techniques, 5A680
- Regularization techniques for dynamic model updating using input residual, 9A69
SALZAR, RS: Pressure-induced mechanical stress in the carotid artery bifurcation: A possible correlation to atherosclerosis, 2A1298
- Elastoplastic analysis of layered metal matrix composite cylinders - Part I: Theory, 7A592
- Elastoplastic analysis of layered metal matrix composite cylinders - Part II: Numerical results, 7A593
SAM LAWRENCE, P: Nonsimilar MHD boundary layer flow near an asymmetric plane stagnation point, 8A994
SAM, C: Nonlinear FE analysis of reinforced concrete four-pile caps, 1A891
- Nonlinear FE analysis of reinforced concrete two-pile caps, 4A9
- Three-dimensional photoelastic analysis of pile caps, 6A542
SAM, MING-TUCK: Earthquake-resistant steel frames with energy dissipating knee elements, 1A1394
SAMA, DA: Differences between second law analysis and pinch technology, 5A1120
- Use of the second law of thermodynamics in process design, 5A1118
SAMALI, B: Use of viscoelastic dampers in reducing wind- and earthquake-induced motion of building structures, 4A219
- Performance of tuned mass dampers under wind loads, 4A218
SAMANIEGO, J-M: CO*2 chemiluminescence in premixed flames, 7A1313
SAMANTA, SC: Study of the thermoelastic interactions in an elastic half space subjected to a ramp-type heating: A state-space approach, 10A1330
SAMBAMURTHI, JK: Al_2O_3 collection and sizing from solid rocket motor plumes, 11A1278
SAMI, M: Kinetic theory approach for laser pulse heating process, 7A765
- Study into the effect of beam waist position on hole formation in the laser drilling process, 11A622
SAMI, SM: Performance of residential refrigerators with ternary blends, 2A1146
- Improved model for predicting the dynamic behavior of adsorption systems, 5A1180
- Heat transfer and pressure drop characteristics of HFC quaternary refrigerant mixtures inside horizontal enhanced surface tubing, 10A1277
- Numerical prediction of dynamic performance of vapor-compression heat pump using new HFC alternatives to HCFC-22, 12A1268
SAMIJO, S: Non-invasive estimation of wall shear rate in humans by means of ultrasound, 1A1463
SAMIMY, M: Dual stream axisymmetric mixing in the presence of axial vorticity, 6A975
- Evolution of a jet with vortex-generating tabs: Real-time visualization and quantitative measurements, 9A1162
SAMIN, JC: Minimal dynamic characterization of tree-like multibody systems, 7A90

- Symbolic generation of large multibody system dynamic equations using a new semi-explicit Newton-Euler recursive scheme, 8A75
SAMITIER, J: Dynamic simulations of micropumps, 10T455
SAMITSU, Y: Study of atomic scale processing using an atomic force microscope (Japanese), 2T717
- Study of polishing of silicon wafers and processing by an AFM using tetra-methyl-ammonium-hydroxide (Japanese), 11A623
SAMMAN, MM: Modal correlation coefficient for detection of kinks in mode shapes, 10T125
SAMME, GV: Friction force as a function of the sliding velocity of a locomotive wheel pair, 5A770
SAMMLER, RL: Melt rheology of zinc alkali phosphate glasses, 8A868
SAMMONDS, PR: Modeling the stress-strain behavior of saturated rocks undergoing triaxial deformation using complex electrical conductivity measurements, 11A578
SAMOILOVA, NV: Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, 10A1176
SAMOKHVALOV, VN: Development and analysis of the die-free magnetic-pulse forming of thin-walled parts, 7A721
- Investigating the technological scope for controlling the processes of magnetic-pulsed stamping of thin-walled parts with the use of technological concomitants, 11A588
SAMOKHVALOV, VP: Investigating the technological scope for controlling the processes of magnetic-pulsed stamping of thin-walled parts with the use of technological concomitants, 11A588
SAMPAIO, ES: Radiation patterns: Possibility for monitoring seismic sources, 6A1254
SAMPAIO, R: Analysis of the fracture of brittle elastic materials using a continuum damage model, 8A608
SAMPATH, S: Numerical analysis of two-ring flame stabilizer flows in aircraft afterburners, 1A1324
SAMPER, V: Electrostatic harmonic microactuator for arterial plaque removal, 6A346
SAMPSON, MT: Wheelchair stability: Effect of body position, 6A1377
SAMS, MS: Attenuation and anisotropy: The effect of extra fine layering, 3A1284
SAMSON, M: New formula for influence of spiral grain on bending stiffness of wooden beams, 3A792
SAMSONOV, AM: Long nonlinear strain waves in layered elastic half-space, 5A181
SAMSONOV, VA: Possibility of gyroscopic stabilization of the rotation of a system of rigid bodies, 4A115
SAMTANI, NC: Interface model to describe viscoplastic behavior, 10A549
SAMUEL, AE: Kinematic chains for robot hands - I: Orderly number-synthesis, 2A301
- Kinematic chains for robot hands - II: Kinematic constraints, classification, connectivity, and actuation, 2A302
SAMUELSSON, A: Solution of quasi-static, force-driven problems by means of a dynamic-explicit approach and an adaptive loading procedure, 11A589
SAMYLINA, LA: Heat transfer in pulsating flow of a liquid with internal heat sources, 3A1128
SAN ANDRES, L: Turbulent-flow hydrostatic bearings: Analysis and experimental results, 1A1146
- Thermohydrodynamic analysis of fluid film bearings for cryogenic applications, 2A1054
- Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part I: The model and perturbation analysis, 5A837
- Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part II: Numerical solution and results, 5A838
SAN MIGUEL, A: Hannay angles for relativistic polar orbits around an oblate spheroid, 7A299
SANAVIA, L: Shear band localization in saturated porous media, 3A1265
- Multiphase medium model for localization and postlocalization simulation in geomaterials, 10A647
SANAYEI, M: Parameter estimation of structures from static strain measurements - I: Formulation, 10A906
- Parameter estimation of structures from static strain measurements - II: Error sensitivity analysis, 10A907
SANCAKTAR, E: Reliability Stress Analysis and Failure Prevention, DE-Vol 87 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N26
- Composite design methodology: Design of composite trails for the US Army's M198 Howitzer: A case study, 12A572
SANCES JR, A: Human head-neck biomechanics under axial tension, 11A1454
SANCHEZ, AL: Relationships between bifurcation and numerical analyses for ignition of hydrogen-air diffusion flames, 11A1273
SANCHEZ, LA: Determining screw axes using holographic interferograms, 6A113
SANCHEZ-ORTIZ, GI: Chaos in a variable mass relaxation oscillator model for the leaky tap, 6A99
SANCHEZ-OSIO, A: Designing shielded metal arc consumables for underwater wet welding in offshore applications, 5A859
SANCHEZ-SESMA, FJ: Simulation of the seismic response of a 2D sedimentary basin: A comparison between the indirect BEM and a hybrid technique, 3A1339
SANCHEZ-SESMA, J: Waveform inversion for determining the boundary shape of a basin structure, 3A1281
SANDELL, M: Estimation of the spatial impulse response of an ultrasonic transducer using a tomographic approach, 3A297
SANDER, J: Experimental and computational study of channelized water waves generated by a porous body, 9A295
SANDERS III, O: Response of a layered elastic medium to a moving strip load, 8A138
SANDERS, BP: Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part I: Experiments, 11A637
- Transverse fatigue response of a metal matrix composite under strain-controlled mode at elevated temperature - Part II: Analysis, 11A638
SANDERS, JE: Skin response to mechanical stress - Adaptation rather than breakdown: A review of the literature, 4A1364
SANDERSON, DJ: Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities, 8A672
SANDERSON, T: Laser phased array measurement of simulated solidified weld penetration depth, 11A835
SANDIFORD, KJ: Small amplitude vibrations of pre-stressed laminates, 12A167
SANDRI, D: Decoupled algorithm for solving a finite element problem for the approximation of viscoelastic fluid flow, 5T20
SANDRI, GVH: Stress and strain analysis in molecular dynamics simulation of solids, 12A95
SANDT, EW: Slepian models for waves and wave-structure interaction, 4A290
SANETRIK, MD: Efficiency and accuracy of time-accurate turbulent Navier-Stokes computations, 8A990
SANG, G: Propagation of elastic waves through a layered poroelastic medium, 12A223
SANG, KEZHENG: Cavitation erosion of flame spray weld coosting of nickel-based alloy powder, 4A681
SANG, ZF: Reliability factors and tightness of tube-to-tubesheet joints, 10A1036
SANGANI, AS: Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, 11A933
SANGSTER, AJ: Electrostatic harmonic microactuator for arterial plaque removal, 6A346
SANI, RL: Flow and transport in a multilayered fluid system - II: Influence of thermal boundary conditions and encapsulant, 11T1150
- Flow and transport in a multilayered fluid system - I: Influence of 1- or μ-g environment, 11A1149
SANIEI, N: Measurements of local heat transfer coefficients from a flat plate to a pair of circular air impinging jets, 12A1227
SANJUAN, MA: Experimental study of durability of reactive powder concretes, 7A544
SANJUAN, MAF: Remarks on transitions order-chaos induced by the shape of the periodic excitation in a parametric pendulum, 9A163
- Symmetry-restoring crises, period-adding and chaotic transitions in the cubic van der Pol oscillator, 12A124
SANKA, K: Development of virtual link method for the solution of hyper-redundant spatial robots, 11A380
SANKAR, BV: Dynamic Response and Behavior of Composites, AD-Vol 46 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N15
- Evaluation of bimaterial stress intensity factors using a FE and BE alternating method, 6A639
SANKAR, LN: Toward the direct calculation of noise: Fluid-acoustic coupled simulation, 4A309
- Numerical analysis of aerodynamic performance of rotors with leading-edge slats, 10A1215
SANKAR, S: Simulation of displacement sensitive nonlinear dampers via integral formulation of damping force characterization, 4A221
- Assessment of tracked vehicle suspension system using a validated computer simulation model, 8A773
- Shape optimization of elliptical road containers due to liquid load in steady-state turning, 8A837
SANKAR, TS: Shape optimization of elliptical road containers due to liquid load in steady-state turning, 8A837
SANKARANARAYAN, S: Finite element analysis of free surface flow through gates, 8A26
SANKARANARAYANAN, TK: Estimation of residual stresses in weldments using adaptive grids, 12A966
SANKARASUBRAMANIAN, G: Constitutive modeling of concrete using a new failure criterion, 5A706
SANKOV, EI: Determination and verification of the residual life of industrial structures subjected to long-term exploitation, 3A423
SANKS, TM: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
SANLITURK, KY: Modeling 2D friction contact and its application using harmonic balance method, 12A895
SANMARTIN, JR: Generic, hard transition to chaos, 6A101
SANNAH, M: Elastodynamic response of a dc motor driven flexible mechanism system with compliant drive train components during start-up, 11A827
SANNASIRAJ, SA: Hydrodynamic behavior of long floating structures in directional seas, 9A321
SANNINO, AP: Dry sliding wear of discontinuously reinforced aluminum composites: Review and discussion, 4A832
SANO, K: Interference-drive of a 3 dof joint based on the cable-controlled mechanism (Japanese), 7A1021
- Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, 11A685
SANO, T: Thermal Engineering for Global Environmental Protection, 10N42
- New trends in precision metal forming (Japanese), 7T771
SANSOME, DH: Mathematical modeling of the internal bending moment at the top roll contact in multi-pass four-roll thin-plate bending, 3A600
SANSOUR, C: Drilling dof in nonlinear elasticity and a hyperelastic material description in terms of the stretch tensor - Part 2: Application to membranes, 9A604
SANSUM, DP: Experimental study of a fluidic type fuel injector in comparison with a solenoid type injector, 10A1387
SANTAMARIA, SP: Evaluation of cleaning methods for granite based on petrographic examinations, 10A692
SANTAMARINA, JC: Study of clay-cement slurries with mechanical and electromagnetic waves, 10A667
SANTAMOURIS, M: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423
- Predicting single sided natural ventilation rates in buildings, 4A1226
- Ground temperature below buildings, 4A1200
SANTANGELO, PJ: Holographic investigation of the near-nozzle structure of an effervescent atomizer-produced spray, 5T1112
SANTARE, MH: Edge dislocation interacting with an elliptical inclusion surrounded by an interfacial zone, 1A462
- Modeling the effect of fiber breakage on the elastic properties of short-fiber composites, 1A543
- Anisotropic effective moduli of materials with microcracks, 4A754
SANTAVICCA, DA: Flame stretch measurements during the interaction of premixed flames and Karman vortex streets using PIV, 9A1333
SANTHAKUMAR, AR: Reliability analysis and full-scale testing of transmission tower, 8A769
SANTIAGO, S: Seismic load tests on two-story waffle-flat-plate structure, 1A1404
SANTINI, A: Complex modal analysis of a continuous model with radiation damping, 10A657
- Time domain response of a 1D soil-structure interacting model via complex analysis, 10A661
SANTNER, E: Comprehensive tribological characterization of thin TiN-based coatings, 5A798
- Advances in tribology: The materials point of view, 5A796
SANTO, L: Effect of tool wear on cutting forces in the orthogonal cutting of unidirectional glass fiber-reinforced plastics, 9A708
SANTOS, B: Space-frequency data compression method for spatially dense laser Doppler vibrometer measurements, 7A885
SANTOS, CAC: Analysis of unsteady forced convection in turbulent duct flow, 1A1172
SANTOS, JE: Solution of an inverse scattering problem in 1D acoustic media, 8A258
- Iterative procedure for estimation of variable coefficients in a hyperbolic system, 9A126
SANTOS, JLT: Continuum sensitivity method for reliability-based structural design and optimization, 3A754
- Sensitivity analysis and optimization of truss-beam components of arbitrary cross-section - I: Axial stresses, 4A795
- Design derivatives for optimization with a critical point constraint, 11A718
SANTOS, LASB: Data compression method for the modal analysis of spatially dense laser vibrometer measurements, 10A242
SANTOSA, F: Stability in crack determination from electrostatic measurements at the boundary: A numerical investigation, 3A716
- NDE of corrosion damage using electrostatic measurements, 8A702
- Method for imaging corrosion damage in thin plates from electrostatic data, 12A719
SANTRA, A: Analysis of laminar natural convection from a discrete isothermal flush heater mounted on the side wall of a partially open rectangular enclosure, 7A1210
SANTURJIAN, O: Spatial FEM model of thermal stress state of concrete blocks with creep consideration, 4A1205
SANYAL, A: Directional stability of truck-dolly-trailer system, 1A408
- Directional stability of vehicle trailer systems, 7A398
SANZ-ANDRES, A: Rapid method for spacecraft sizing, 2A799
SANZI, HC: Vibrations of a rectangular plate of non-uniform thickness partially embedded in a Winkler medium, 2T107
- Lowest axisymmetric frequency of vibration of a circular plate partially embedded in a Winkler foundation, 2T103
SAOUMA, VE: Centrifuge modeling and analysis of concrete gravity dams, 2A779
SAPOVA, N: Water exchange and water quality in the coastal zone in the presence of structures, 7A292
SAPOZHNIKOV, SA: Wear resistance of cast-iron piston rings produced by continuous-cyclic casting, 5A839
SAPRAGONAS, J: Creep simulation of polymer matrix-dispersed filler composites (Russian), 8A409
SARA, L: What can linear instability theory say about plasma plume dynamics, 11A973
SARADY, I: Generating and recording transient bending waves in plates by pulsed lasers, 7T247
SARAF, A: Singularities in mechanisms: The local trajectory tracking problem, 2A305
SARAF, PD: Multifrequency shielding behavior of cylindrical overburden covering concentric elongated ore deposits, 3A1292
SARAMITO, P: Efficient simulation of nonlinear viscoelastic fluid flows, 4A451
SARANEN, J: Discrete methods for boundary integral equations on smooth closed curves, 2A41
SARATHY, R: Regular and chaotic flows in paraboloidal basins and eddies, 9A1058
SARAVANAN, K: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595
SARAVANOS, DA: Exact free-vibration analysis of laminated plates with embedded piezoelectric layers, 1A149
- Effects of delaminations on the damped dynamic characteristic of composite laminates: Analysis and experiments, 11A655
- Coupled layerwise analysis of thermopiezoelectric composite beams, 11A482
SARGENT, CM: Experimental identification of a flow orifice using a neural network and the conjugate gradient method, 12A424
SARIC, WS: Linear stability theory applied to boundary layers, 6A979
SARIDIS, GN: Stochastic Processes, Estimation, and Control - The Entropy Approach, 2R18
- Task reliability assessment in robotic systems, 1A438
SARIG, N: Extinction dynamics of partially premixed spray flames, 6A1205
- Analysis of multiple flames in counterflow spray combustion, 9A1309
SARIGUL, AS: Analysis of the near field acoustic radiation characteristics of two radially vibrating spheres by the Helmholtz integral equation formulation and a critical study of the efficacy of the "chief" overdetermination method in two-body problems, 4A303
SARIOZ, K: High speed hull form optimization for seakeeping, 2A1005
SARKANI, S: Decay of residual stress in stochastic fatigue, 6A628
- Structural damping for soil-structure interaction studies, 8A159
- Efficiency and accuracy in simulation of random fields, 9A114
SARKAR, A: Effects of variable property and surface radiation on laminar natural convection in a square enclosure, 1A1271
- Comparative study of porous media models in a differentially heated square cavity using a FEM, 3A1266
- Critical earthquake input power spectral density function models for engineering structures, 5A1331
- Critical cross-power spectral density functions and the highest response of multi-supported structures subjected to multi-component earthquake excitations, 8A1337
- Dynamic stiffness matrix of a general cable element, 10A162
SARKAR, J: Diffraction of elastic waves by two parallel rigid strips embedded in an infinite orthotropic medium, 2A160
SARKAR, K: Effective boundary conditions for Stokes flow over a rough surface, 12A1039
SARKAR, P: Structure and fracture behavior of t-ZrO_2/Al_2O_3 lamellar composites, 1A822
SARKAR, S: Comparison of different turbulence models for prediction of slot-film cooling: Flow and temperature field, 1A1086
SARKIS, ZA: Improving the accuracy of the capacitance method for void fraction measurement, 4A1019
SARLER, B: Computational Modelling of Free and Moving Boundary Problems III, 1N28
SARMA, KC: Effect of general sparse matrix algorithm on optimization of space structures, 4T790

SARMA, MS: Applicability of the energy method to nonlinear vibrations of thin rectangular plates, 4T166
SARMA, PA: Response of periodic wall protrusions on average flow and heat transfer characteristics in a forced convection study, 11A1103
SARMA, PK: Non-Darcy effects in natural convection heat transfer in a vertical porous annulus, 11T1156
SARMA, SE: Algorithms for the minimization of set-ups and tool changes in "simply fixturable" components in milling, 10A497
SARNA-WOJCICKI, AM: Ribbon Cliff landslide, Washington, and the earthquake of December 14, 1872, 2A1234
SARNET, T: Surface treatment of metallic samples by ultraviolet laser (French), 7A772
SAROCKA, DC: Intrinsic equation of interfacial motion for the solidification of a pure hypercooled melt, 1A1260
SAROFIM, AF: Effect of SO_2 and NO on the conversion of fuel nitrogen to N_2O and NO in single particle combustion of coal, 3A1215
- Biarene formation during pyrolysis of a mixture of anthracene and naphthalene, 7A1313
- NO and N_2O formation during char combustion: Is it HCN or surface attached nitrogen, 7T1319
SARPKAYA, T: Vorticity, free surface, and surfactants, 6A905
- Oscillating flow about 2D and 3D bilge keels, 8A216
SARRAF, S: Simulation of ice cover melting in turbulent flow, 1A1217
SARRAUTE, E: Optimization of the geometry of electrostatic micromotors using only analytical equations, 10T469
SARRAZIN, H: Thermochemical and mechanical aspects of composite tape laying, 2A558
- Effects of processing temperature and layup on matrix cracking, 5A582
SARSBY, RW: Numerical investigation of landfill hydraulics using variably saturated flow theory, 12A1031
SARSON, GR: Three-dimensional kinematic dynamos dominated by strong differential rotation, 7A1144
SARTORI, E: Solar still versus solar evaporator: A comparative study between their thermal behaviors, 8A1390
SARVAZYAN, AP: Acoustic radiation force and streaming induced by focused nonlinear ultrasound in a dissipative medium, 10A371
SARWAR, M: Acoustic emission monitoring of wear in hacksaw blades, 7A887
SASADA, N: Object-oriented approach to optimize composite laminated plate stiffness with discrete ply angles, 12A559
SASADA, S: Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), 5A1327
SASAE, K: Development of a small actuator with three degrees of rotational freedom - 3rd Report: Design and experiment of a spherical actuator (Japanese), 11A369
SASAGAWA, K: Current density and temperature distribution near the corner of angled metal line, 2T1121
SASAGUCHI, K: Solid-liquid phase-change heat transfer around two horizontal, vertically spaced cylinders: An experimental study on the effect of density inversion of water, 4A1209
- Numerical study on utilization of melting of phase change material for cooling of a heated surface at a constant rate, 6A1096
SASAHARA, H: Change of mechanical characteristics in machined layer with machining sequence (Japanese), 4T634
SASAKI , S: VLF wave experiments in space using a modulated electron beam, 1A277
SASAKI, A: Precise tilting control of rotating table: Mechanical structure and performance (Japanese), 4A864
- Development of scanning shearing-stress microscopy utilized the quartz crystal microbalance technique, 7A874
SASAKI, H: Macroscopic wetting behavior of a 2D meniscus under a horizontal plate, 1T1004
SASAKI, K: Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), 1A428
- Constitutive equation for inelastic behavior of FRP considering damage: Application to CFRP $[\pm 45°]_4$ subjected to cyclic loading (Japanese), 4A477
- Positioning system for mobile robot using LED marks (Japanese), 5A362
SASAKI, N: Stress-strain curve and Young's modulus of a collagen molecule as determined by the X-ray diffraction technique, 8A1431
SASAKI, T: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541
- Single incidence X-ray stress measurement for all plane stress components using imaging plate of 2D X-ray detector (Japanese), 3A744
- Single point diamond turning of chalcone organic nonlinear optical crystals for second harmonic generation (Japanese), 4T660
- Fractal characteristics of stress corrosion cracking in SNCM 439 steel having different prior-austenite grain sizes, 6A622
- Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), 7A815
SASAKI, Y: Study on plant inspection and diagnosis robot - 2nd Report: Searching method for the faulty machine based on sound spectrum and fuzzy navigation- (Japanese), 9A466
SASATANI, Y: Micro-mechanism of friction drive with ultrasonic wave, 12A894
SASHIDA, K: Consideration on design for tunnel pre-lining (Japanese), 10A918
SASIC, M: Another solution for annular two-phase flow with a laminar-laminar regime, 12A1085
SASIC, S: Another solution for annular two-phase flow with a laminar-laminar regime, 12A1085
SASOH, A: Experimental investigation on tunnel sonic boom, 3T208
SASS, SL: Deformation processes in the vicinity of metal-ceramic interfaces, 1A811
- Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, 5A655
SASSA, K: Improvement in accuracy of seismic traveltime tomography by adding a priori information as constraints on velocity reconstruction (Japanese), 1A1379
SASSANI, F: Modeling hot flat-Rolling of components having curved profiles - Part II: Characterization of heat transfer and flow stress, 3A1108
- Modeling hot flat-Rolling of components having curved profiles - Part I: Deformation analysis, 3A601
SASSE , M: Collectze hardware simulator: Theoretical analysis and experimental results, 1A1424
SASSE, C: Evaluation of an improved hybrid six-flux and zone model for radiative transfer in rectangular enclosures, 2A1133
SASSI, S: Interaction between forced and combination resonances, 4A169
SASSI, T: Domain decomposition with nonmatching grids: Augmented Lagrangian approach, 3A70
SASSOLAS, C: Stress interaction between multiple crevasses in glacier ice, 11A1445
SASTRI, VMK: Experimental investigation for fluid flow and heat transfer in a rotating tube with twisted-tape inserts, 2A1104
- Numerical study of steady laminar fully developed fluid flow and heat transfer in rectangular and elliptical ducts rotating about a parallel axis, 5A1145
- Efficient evaluation of diffuse view factors for radiation, 7A1254
- Estimation of convective heat transfer coefficients in industrial steam turbines, 10T1265
SASTRY, AM: Comparison of shear-lag theory and continuum fracture mechanics for modeling fiber and matrix stresses in an elastic cracked composite lamina, 11A673
SASTRY, GLN: Clear water scour at circular piers: A model, 6T881
SATAKE, K: Tsunamis: 1992-1994 - Their generation, dynamics, and hazard, 3A1345
- Railgun pellet injection system for fusion experimental devices, 4T857
SATHEESH KUMAR, K: Chaotic rheological parameters of periodically forced suspensions of slender rods in simple shear flow, 4A883
SATHER, D: Langmuir circulations when the Stokes drift has a cross-wind component, 4A264
SATHYAMOORTHY, M: Influence of transverse shear and rotatory inertia on nonlinear vibrations of circular plates, 12A162
SATHYAMURTHY, PS: Performance of a multigrid method with an improved discretization scheme for 3D fluid flow calculations, 10A1083
SATHYANARAYANAN, G: Characterization of grinding-induced cracks in ceramics, 2A549
SATIK, C: Pore-network study of bubble growth in porous media driven by heat transfer, 11A1186
SATISH KUMAR, K: Elastoplastic contact stress analysis of joints subjected to cyclic loading, 12A990
SATO , T: Evaluation method for the disintegration of soft rocks by in-situ exposure test (Japanese), 4A628
SATO, A: Fatigue life prediction of CFRP using evolution of creep property (Japanese), 12A535
SATO, E: Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), 11A118
SATO, H: Molecular study of evaporation and condensation of an associating liquid: Shock-tube experiment and molecular dynamics simulation, 4A1188
- Effect of testing temperature on the energy absorption behavior of carbon fiber-PEEK composite tubes, 7A555
- Effect of fiber orientation on the energy absorption capability of carbon fiber-PEEK composite tubes, 12A533
SATO, J: Experimental research on blunt trailing-edge airfoil sections at low Reynolds numbers, 4A1108
- Two stage ignition of a n-heptane isolated droplets, 5A1213
SATO, K: Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, 1A260
- Micromachining of 3D microstructure by etching (Japanese), 4T658
- Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), 5A832
- Achieving Ultra-Precision by mechatronics: Active air Journal bearing, 7A419
- Displacement sensor and ultra-precision positioning (Japanese), 7T412
- Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), 7A1012
- High-speed observation of ultrahigh-speed submerged water jets, 10A1165
- Study on vibration serviceability limit state of pedestrian bridges based on human vibration sensibility (Japanese), 11A143
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
SATO, M: Buckling design of symmetrically laminated plates using lamination parameters, 1A653
- Measurement of tool-workpiece interface temperature by two-color pyrometer (Japanese), 4T1140
- Aseismic evaluation of geogrid-reinforced embankments with steep slope using centrifuge modeling, 4A620
- Corrosion resistible coating with combination of ion plating and heat treatment for molten carbonate fuel cell separator, 6A620
- Shear moduli and damping ratios of saturated sand deposits on shaking table tests in the centrifuge (Japanese), 7A692
- Chip forming temperature on micro cutting - 2nd report: Influence of cutting speed and material properties on thermal partition coefficient (Japanese), 7A762
- Viscoelastic properties of cultured porcine aortic endothelial cells exposed to shear stress, 8A1430
- Stationary drift-Rossby vortices of elliptic boundary in a background shear flow, 10A1443
- Analysis of motion of body center during human stair gait using force plate, 12A1459
SATO, S: Damage healing and strengthening behavior in intelligent mullite-SiC ceramics, 2A661
- Field observation of suspended sand concentration near the breaking point (Japanese), 3A888
- Vibration control of a ropeway carrier by passive dynamic vibration absorbers, 6A173
- Study on strength characteristics of Si_3N_4 coil springs, 11A814
- Air-water two-phase flow performance of centrifugal pump impellers with various blade angles, 11T1048
SATO, T: Estimation of the stress distribution in metal using nonlinear acoustoelasticity, 1A852
- Sonoelastic determination of human skeletal muscle elasticity, 1A1447
- Modification and damping of Alfven waves in a magnetized dusty plasma, 3A980
- Effect of auditory feedback on operating efficiency and fatigue - In the case of manual cut-off turning with virtual lathe (Japanese), 3T619
- Method for the evaluation of lubrication using injection upsetting, 3A605
- Three-dimensional processing by micro electro-discharge machining (Japanese), 4T663
- Open-closed loop control of seismic response of structures with active mass driver system (Japanese), 5A1324
- Evaluation of local site effects and their removal from borehole records observed in the Sendai region, Japan, 6A1264
- Nonlinear behavior of soil sediments identified by using borehole records observed at the Ashigara Valley, Japan, 6A1266
- Suggestion for the comparison methods of an amount of the particle breakage by the in-situ exposure and laboratory slaking tests of a soft rock (Japanese), 10T696
- Effects of surface-finishing condition and annealing on transformation sensitivity of 3 a mol% Y_2O_3 stabilized tetragonal zirconia surface under interaction of lubricant, 12A928
SATO, Y: Elastoplastic branched analysis for an interface crack based on crack energy density, 1A794
- Quantitive evaluation of shear strength of concrete beams reinforced with FRP rods (Japanese), 2A761
- Finite element analysis on shear resisting mechanism of concrete beams with shear reinforcement, 2A9
- Shear strength of prestressed concrete beams with FRP tendon (Japanese), 2A770
- Prediction of the single-phase turbulent mixing rate between two parallel subchannels using a subchannel geometry factor, 11A1423
SATO, YOHEI: Effect of dispersed phase on modification of turbulent flow in a wall jet, 12A1132
SATOH, A: Stability of computational algorithms used in molecular dynamics simulations, 5T909
SATOH, H: Crushing mechanism of carbon fiber-PEEK composite tubes, 2A417
SATOH, K: Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, 12A1228
SATOH, M: Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336
SATOH, T: Study of small hole drilling under the feed with vibration (Japanese), 1A728
- Evaluation of local site effects and their removal from borehole records observed in the Sendai region, Japan, 6A1264
- Nonlinear behavior of soil sediments identified by using borehole records observed at the Ashigara Valley, Japan, 6A1266
SATPATHI, D: Experimental investigation of tensile fracture in polyurethane foams, 3A718
SATRAVAHA, P: Efficient computational method for modeling transient heat conduction with nonlinear source terms, 11A1192
SATTAR, T: New algorithm for the use of an anthropomorphic robot manipulator arm in remote and laboratory NDT application, 2A318
SATTARI-FAR, I: Constraint effects on ductile crack growth in cladded components subjected to uniaxial loading, 3A687
- Constraint effects on behavior of surface cracks in cladded reactor pressure vessels subjected to PTS transients, 9A1275
SATTLER, K: Reactive dimerization: A new PAH growth mechanism in flames, 7A1320
SATYADAS, A: Hybrid fuzzy logic flight controller synthesis via pilot modeling, 3T388
SATYAPAL, S: Extended flame zone in the combustion of CH_3Cl, 3A1232
SAU, A: Large injection rates on unsteady compressible boundary layer flow over cones at angles of attack, 1A1048
SAUER, N: Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with nonhomogeneous boundary conditions, 5A874
SAUNDERS , WR: Modal parameter estimation for piezostructures, 5A306
SAUNDERS, DEJ: Post-impact compressive behavior of low temperature curing woven CFRP laminates, 1A535
SAUNDERS, FI: Anisotropic yield functions with plastic-strain-induced anisotropy, 12A525
SAUNDERS, JW: Investigation of the loads on truck cabin aerodynamic devices, 7A976
SAUNDERS, WR: Hybrid structural control approach for narrow-band and impulsive disturbance rejection, 9A425
SAUREL, R: Effects on the injection of droplets on a stationary shock wave in a nozzle (French), 1A1037
- Droplet break-up through an oblique shock wave, 7A282
SAURIN, VV: Optimal orientation of orthotropic materials for plates designed against buckling, 6A720
- Determination of the orthotropy orientation in plates optimized with respect to a stability criterion, 10A877
SAUTER, SA: Generalized FEM for solving the Helmholtz equation in 2D with minimal pollution, 5A289
SAUTTER, M: Mehrphasige FE in der Verformungs- und Versagensanalyse grob mehrphasiger Werkstoffe (German), 2T426
SAVAGE, M: Spur, helical, and spiral bevel transmission life modeling, 8A808
SAVAGE, MD: Modeling and analysis of meniscus roll coating, 2A536
SAVARD, G: Discrete linear bilevel programming problem, 12T348
SAVCHENKO, SO: Inviscid instability of annular shear layers, 2A980
SAVCHENKO, VG: Study of nonaxisymmetrical thermal and stressed state of laminar bodies of revolution with regard for rectilinear orthotropism of the layers, 3A503
- Thermal stress state of laminated bodies of revolution of isotropic and rectilinear orthotropic materials (Russian), 7A1285
SAVE, M: Atlas of Limit Loads of Metal Plates, Shells, and Disks, 5N21
SAVENKO, VI: New applications of the Rehbinder effect in tribology: A review, 12A932
SAVILLE, DA: Quantitative measurements of internal circulation in droplets using flow tagging velocimetry, 8A1042
SAVIN, A: Reliability of automatic eddy-current equipment with a rotating magnetic field, 4A781
SAVIN, AV: Mechanism of self-oscillatory interaction of plane subsonic jet with acoustic resonator, 10T1158
SAVIN, VA: Determining dynamic characteristics of ideal noncompressible liquid excited by spherical segment in cylindrical cavity, 9T315
SAVIN, VG: Excitation by nonstationary electric signals of a thin-walled radially-polarized piezoceramic cylinder (Russian), 3A567

- Interaction of plane nonstationary wave with the system of two cylindrical electroelastic shells, 7A235
- Radiation of nonstationary acoustic waves of radially polarized cylindrical piezotransducer (Russian), 7A334
- Excitation of a thick-walled piezoceramic sphere by nonstationary electric pulses, 10T643

SAVINOV, AP: Summation of creating small-sized manual winches with planetary drive, 11A817

SAVITSKAYA, TA: New process for the production of hydrocellulose fibers without using carbon disulfide, 6A870

SAVKIN, AV: Method for robust stabilization related to the Popov stability criterion, 3T317
- Uncertainty-averaging approach to output feedback optimal guaranteed cost control of uncertain systems, 7T384
- Robust observability for a class of time-varying discrete-time uncertain systems, 12T319

SAVLUK, AR: Stability of conical shells reinforced with meridial and nonregular ring reinforcements, 7A669

SAVOIA, M: Accuracy of 1D models for multilayered composite beams, 4A504
- Dynamic analysis of coupled shear wall-frame systems, 11A140
- Beam theory for strongly orthotropic materials, 11A494

SAVOIE, J: Textures induced by tension and deep drawing in aluminum sheets, 6A563

SAVORY, E: Mixing characteristics of twin impinging circular jets, 4A1052

SAVOSTIANOV, VN: Efficient application of photoelasticity in nuclear power structures design (French), 7A876

SAVOVA, R: Thermoelastic surface waves of an assigned wavelength, 12A1284

SAWA, K: Thermal diffusivity and porosity of solid materials by electromagnetic ultrasonic technique - Part 2, 2A1227

SAWA, T: Two-dimensional thermal stress analysis of surface mount joints under uniform temperature change, 3A1170
- Three-dimensional FE analysis and strength evaluation of link chains in chain hoists subjected to impact loads, 6A468
- Behavior of a tapered hub flange with a bolted flat cover in transient temperature field, 7A1025
- Contact stress in a bolted joint with a threaded bolt, 10A1033

SAWADA, S: Experimental study on frost heaving force of natural ground (Japanese), 4A610

SAWADA, T: Required yield strength ratio spectrum and its application for verification of seismic safety of a structure excited by severe earthquake motions (Japanese), 5A1327

SAWAE, Y: Lubrication property of total knee prostheses with PVA hydrogel layer as artificial cartilage, 12A1490

SAWAF, B: Inverse analysis to estimate linearly temperature dependent thermal conductivity components and heat capacity of an orthotropic medium, 1A1255

SAWAKI, Y: Influence of transformation-induced crack closure on slow fatique crack growth under variable amplitude loading, 2A568

SAWALHA, KD: Dusty gas flow through porous media, 7A1358

SAWAN, ME: Optimal feedback control of a nonlinear system: Wing rock examples, 6A289
- Prescribed pole placement with optimal weight selection for single-input controllable systems, 6T303

SAWASAKI, N: Cooperative manipulation by autonomous intelligent robots, 12A461

SAWAYA, NN: Free vibration of thick multilayer cylinders, 1A158

SAWFORD, BL: Review of Lagrangian stochastic models for trajectories in the turbulent atmosphere, 12A1441

SAWICKI, A: Development of ground liquefaction due to surface waves, 3A186

SAWLEY, KJ: Rolling contact fatigue of three pearlitic rail steels, 10A982

SAWLEY, ML: Comparison of parallel programming models for multiblock flow computations, 5A68

SAWYER, JP: Fuzzy FE approach for the anlaysis of imprecisely defined systems, 4A6

SAWYER, S: Flutter stability of a detuned cascade in subsonic compressible flow, 2A961

SAXENA, A: Characterization of creep-fatigue crack growth behavior in 2.25 Cr-1 Mo steel using (C_{have}, 8A595
- Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steels - Part I: Estimation of crack tip parameters, 10A751
- Creep-fatigue crack growth behavior in 1Cr-1Mo-0.25V steel - Part II: Crack growth behavior and models, 10A752
- Fracture and fatigue crack growth behavior of SiC_w/2124Al composites, 11A681

SAXENA, M: Two-fluid model of non-Newtonian blood flow induced by peristaltic waves, 2A841

SAXENA, SC: Heat transfer through a low-pressure gas enclosure as a thermal insulator: Design considerations, 10A1286

SAXENA, V: Transverse vibration of a quarter of an elliptic plate with variable thickness, 2A106
- Transverse vibration of a circular plate with unidirectional quadratic thickness variation, 7A168
- Axisymmetric vibration of a circular plate with exponential thickness variation, 10A172

SAXER, AP: Numerical analysis of 3D unsteady hot streak migration and shock interaction in a turbine stage, 11A1074

SAYAPIN, GN: Efficiency of shock wave scramjet and shock-free scramjet, 10A1404

SAYERS, CM: Simplified anisotropy parameters for transversely isotropic sedimentary rocks, 3A592

SAYIR, MB: Fiber-reinforced laminated composite tubes with free ends under uniform internal pressure, 3A497

SAYLES, RS: Debris and roughness in machine element contacts: Some current and future engineering implications, 1A936
- Limitations of thin film microtransducers in highly loaded contacts, 6T799

SAZHIN, SS: Solutions of magnetohydrodynamic problems based on a conventional computational fluid dynamics code, 2A1002

SAβ, V: Investigation of 3D thermocapillary convection in a cubic container by a multi-grid method, 4A1151

SCAGNETTI, PA: Stress and strain analysis in molecular dynamics simulation of solids, 12A95

SCALA, CM: NDT of welds: State of the art, 12A803

SCALON, VL: Frost formation around a vertical cylinder in a wet air stream, 4A1185

SCALZO, AJ: Evolution of Westinghouse heavy-duty power generation and industrial turbines, 10A1384

SCANDRETT, CL: Bi-orthogonality relationships involving porous media, 1A1374

SCANDURA, P: Unsteady flow in installations with polymeric additional pipe, 3T878

SCANLAN, RH: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11

SCANLON, WG: Vaginal temperature sensing using UHF radio telemetry, 7A1414

SCARPA, F: Kalman smoothing technique applied to the inverse heat conduction problem, 1A1264

SCARPETTA, E: Results on thermoelasticity for dielectric materials with voids, 2A1151
- Results on thermoelasticity for porous piezoelectric materials, 7T1288
- Explicit analytical results for one-mode oblique penetration into a periodic array of screens, 12A227

SCARPONI, C: Structural optimization with parameter-transfer FE, 1A881

SCARTON, HA: Attenuation of higher order circumferential thermoacoustic waves in viscous fluid lines, 12A279

SCAVARDA, S: Comparison between linear and nonlinear control of an electropneumatic servodrive, 12A422
- Implicit nonlinear robust control for an electrohydraulic system with uncertainties, 12A425

SCAVIA, C: Method for the study of crack propagation in rock structures, 2A534

SCHAB, DE: Network load in distributed interactive simulation, 5T1019
- Smoothing of dead reckoning image in distributed interactive simulation, 9T964

SCHADOW, KC: Mixing enhancement in supersonic free shear flows, 2A905
- Supersonic flow mixing and combustion using ramp nozzle, 4A1255

SCHAEFERS, J: Parameter identification approach using optimal exciting trajectories for a class of industrial robots, 7A460

SCHAETZL, RJ: Estimating soil temperatures and frost in the lake effect snowbelt regions, Michigan, USA, 3A579

SCHAFER, M: Numerical investigation of melting processes affected by natural convection, 7A1226
- Parallel block-structured multigrid method for the prediction of incompressible flows, 9A1090

SCHAFER, P: Combined perturbation and finite-difference procedure applied to temperature effects and stability in a laminar boundary layer, 9A1139

SCHAFFER, HA: Further enhancements of Boussinesq-type equations, 5T624

SCHALLERT, AR: Effects of Dean vortex pairs on surface heat transfer in curved channel flow, 3A1060

SCHAMLE, MF: Methodology for integration of digital control loaders in aircraft simulators, 1T411

SCHANZ, T: Angles of friction and dilatancy of sand, 9T658

SCHAPS, SR: Fatigue load monitoring in steel bridges with Rayleigh waves, 8A696

SCHATZ, AH: Superconvergence in FEMs and meshes that are locally symmetric with respect to a point, 10A24

SCHATZ, MF: Purification of silicone oils for fluid experiments, 3T1011

SCHATZKER, J: Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, 8A1440

SCHATZMAN, M: Mean-field model of superconducting vortices, 11A559

SCHAUB, H: Principal rotation representations of proper N × N orthogonal matrices, 4A130

SCHAUSBERGER, A: Improved algorithm for calculating relaxation time spectra from material functions of polymers with monodisperse and bimodal molar mass distributions, 2A842

SCHAWE, JEK: Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, 11A1094
- Modulated temperature DSC measurements relating to the cold crystallization process of poly(ethylene terephtalate), 11A1092

SCHECHTER, RS: Adhesion and hydrodynamic removal of colloidal particles from surfaces, 7A1034

SCHEDIN, S: Transient acoustic near field in air generated by impacted plates, 7A326

SCHEER, RJ: Comparison of several fracture mechanics methods for measuring interfacial toughness with microbond tests, 5A671

SCHEIBE, W: High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441

SCHEICHL, S: Unsteady transonic nozzle flow of dense gases, 9A1095

SCHEIDL, M: Method of signal processing in motion analysis of the trotting horse, 12A1471

SCHEIMAN, DA: Contamination and space environmental effects on solar cells and thermal control surfaces, 5A246

SCHENCK, HA: Hybrid method for predicting the complete scattering function from limited data, 5A290

SCHENKER, GN: Line-by-line calculations of the absorption of infrared radiation by water vapor in a box-shaped enclosure filled with humid air, 2A1134

SCHENKOVA, Z: Interpretation of the microtremor spectra at the Zafarraya basin, southern Spain, 8A1333

SCHERBAUM, F: Analysis of asymmetric multipathing with a generalization of the double-beam method, 12A1364

SCHERF, O: Adaptive FE algorithm for contact problems in plasticity, 6A398

SCHERGE, M: Stress distribution and mass transport along grain boundaries during steady-state electromigration, 1A680

SCHETZ, JA: Handbook of Fluid Dynamics and Fluid Machinery, 6N30
- Measurements of compressible turbulent flow structure in a supersonic mixing layer, 4A1049
- Experimental and numerical study of transonic turbine cascade flow, 6A1026
- Direct measurement of skin friction in a turbine cascade, 8A960

SCHEUING, JE: Inverse heat conduction problem solutions via second-order design sensitivities and Newton's method, 9A1268

SCHEURLE, J: Pattern evocation and geometric phases in mechanical systems with symmetry, 6A71

SCHIAVONE, P: Third boundary-value problem in plane strain, 7A491

SCHICK, C: Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers, 11A1094

SCHIEBER, D: Transient pressure variation of a fluid in a gravity-free environment, 8A250

SCHIECK, B: Appropriate corotational rate, exact formula for the plastic spin and constitutive model for finite elastoplasticity, 2A1

SCHIEF, WK: Nizhnik-Veselov-Novikov equation: Associated boundary value problems, 12A229

SCHIEHLEN, W: IUTAM Symposium on Optimization of Mechanical Systems - Proc of IUTAM Symp, Stuttgart, Germany, March 1995, 11N15
- Amplitude bounds of linear forced vibrations, 10A122

SCHIEK, RL: Nonlocal theory for stress in bound, Brownian suspensions of slender, rigid fibers, 1A966

SCHIESCHKE, R: Vertical load-deflection behavior of a pneumatic tire subjected to slip and camber angles, 7A978

SCHIESTEL, R: Hermitian-Fourier numerical method for solving the incompressible Navier-Stokes equations, 1A1007
- Numerical modeling of variable density turbulent jets, 8A1115

SCHIEWECK, F: Optimal order error estimate for an upwind discretization of the Navier-Stokes equations, 12A1062

SCHIFERL, SK: Computational anisotropic plasticity for high-rate forming applications, 12A699

SCHIFF, LB: Experimental investigation of tangential slot blowing on a generic chined forebody, 1A1113
- Computational investigation of tangential slot blowing on a generic chined forebody, 1A1112
- Analysis of tangential slot blowing on F/A-18 isolated forebody, 2A1029
- Numerical simulation of forced and free-to-roll delta-wing motions, 7A1157

SCHIFF, SD: Fatigue assessment of through plate girder railway bridges, 3A655

SCHIFFERS, WP: Interaction of a single laser-generated cavity in water with a solid surface, 10A345

SCHIFFMAN, RL: Origins of the theory of consolidation: The Terzaghi-Fillunger dispute, 12A647

SCHIFFRER, G: Reactive acoustic intensity for general fields and energy polarization, 9A337

SCHIJVE, J: Fatigue crack closure measurements on 2024-T3 sheet specimens, 2A585

SCHILP, A: Experimental characterization of dynamic micromechanical transducers, 10A457

SCHILT, S: Effects of time-varying curvature on velocity profiles in a model of the coronary arteries, 8A1433

SCHIMMELS, JM: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9

SCHINDEL, DW: Measurement of elastic constants in composite materials using air-coupled ultrasonic bulk waves, 9A858

SCHINKE, B: Determination of strain components in low-cycle multiaxial fatigue tests on tubes, 11A629
- High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441

SCHISSLER, JM: Influence of surface oxidation on the wear resistance of cast iron, 6T820

SCHLANGEN, E: Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, 9A795

SCHLATTER, PJ: Sound propagation over impedance discontinuities with the parabolic approximation, 7A364

SCHLECHT, M: Comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on FE analysis and extended classical lamination theory, 1A553

SCHLEGEL, A: Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, 10A1363

SCHLEGEL, V: Relative friction minimization in fixed orthodontic bracket appliances, 8A1449

SCHLEICH, J-B: Simple model for the fire resistance of axially loaded members: Comparison with experimental results, 11A769

SCHLEICHER, J: Unified approach to 3D seismic reflection imaging - Part II: Theory, 11A1381
- Unified approach to 3D seismic reflection imaging - Part I: Basic concepts, 11A1380

SCHLESINGER, A: Transmission of elastic waves from a cylinder to an attached flat plate, 4A236

SCHLIPF, J: Mechanistic model for boundary sliding controlled optimal superplastic flow - I: Theory, 10A511

SCHLITT, R: Performance characteristics of recently developed high-performance heat pipes, 1A1285

SCHLITTENHARDT, J: Array analysis of core-phase caustic signals from underground nuclear explosions: Discrimination of closely spaced explosions, 11A1337
- Analysis of asymmetric multipathing with a generalization of the double-beam method, 12A1364

SCHLITZ, DJ: Heat transfer enhancement in narrow channels using 2D and 3D mixing devices, 3A1028

SCHLUSSEL, P: Evolution of cool skin and direct air-sea transfer coefficient during daytime, 8T1363

SCHLUTER, N: Effect of triaxial stress on mixed-mode fracture, 2A629

SCHMAHL, EJ: Limits to extensions of Burgers' equation, 11A189

SCHMALBROCK, P: Fabrication of vascular replicas from magnetic resonance images, 5A1392

SCHMALTZ, KS: Numerical and experimental investigation of interface bonding via substrate remelting of an impinging molten metal droplet, 8A1171

SCHMAUDER, S: Transverse yielding and matrix flow past the fibers in metal matrix composites, 1A549
- Artificial neural networks for the prediction of mechanical behavior of metal matrix composites, 3A493
- Semi-infinite crack in front of a circular, thermally mismatched heterogeneity, 5A399
- Modeling of metal matrix composites by a self-consistent embedded cell model, 11A471

SCHMID, BH: Transient storage equations for longitudinal solute transport in open channels: Temporal moments accounting for the effects of first-order decay, 4T919

SCHMID, CA: Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342

SCHMID-SCHONBEIN, GW: Biomechanical model for the myogenic response in the microcirculation - Part II: Experimental evaluation in rat cremaster muscle, 11A1451
- Biomechanical model for the myogenic response in the microcirculation - Part I: Formulation and initial testing, 11A1450

SCHMIDT, A: Fabrication of high frequency gratings for high temperature, 2A326

SCHMIDT, AS: Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate, 9A546

SCHMIDT, DC: Effects of a closely coupled static and oscillating canard, 5T1002

SCHMIDT, DK: Unified lateral approximations for longitudinal dynamics of flexible flight vehicles, 3T381

- Model simplification and stability robustness with elastic flight vehicles, 5A312
SCHMIDT, FM: Viscoelastic simulation of PET stretch-blow molding process, 12A511
SCHMIDT, G: Linear and nonlinear rheology of micellar solutions in the isotropic, cubic, and hexagonal phase probed by rheo-small-angle light scattering, 4A913
- Approximate approximations using Gaussian kernels, 6A43
SCHMIDT, GH: Operator weighing in a multigrid method for locally refined grids, 2A26
SCHMIDT, H: Spherical coordinate Green's functions for ring tractions in a solid unbounded medium, 3A193
- Hybrid processing structure for the analysis of scattering from stiffened, fluid-loaded cylindrical shells, 9A360
SCHMIDT, I: Strategy for determining the equilibrium shape of an inclusion, 1A468
SCHMIDT, LC: Modeling of nonlinear damping characteristics of a viscoelastic structural damper, 6A171
- Barrel-vault space trusses shaped by posttensioning, 6A771
- Shape formation of deployable metal domes, 10A931
- Spectrally formulated FEM for vibration of a tubular structure, 11A40
SCHMIDT, LV: Dynamic modeling of a trailing wire towed by an orbiting aircraft, 1A142
SCHMIDT, PG: Variational methods for stationary MHD flow under natural interface conditions, 5T984
SCHMIDT, R: Enclosing bounds for buckling loads, fundamental frequencies, and other eigenvalues, 4A585
- Improving Collatz's estimates of buckling loads, 12A634
SCHMIDT, U: Differential-pressure probe for velocity measurements in swirling air flows, 6A1053
- Numerical investigation of fluidic micro-oscillators, 10T444
SCHMIDT, WD: New tracking algorithm for particle image velocimetry, 3A1009
SCHMIDT, WF: Surface flaws using a modified AC magnetic bridge, 5A674
SCHMIDT, Z: Improved method for gas lift allocation optimization, 1A1409
SCHMIDT-LANE, C: Stability in a model of turbulent combustion, 2A1185
SCHMIDTMANN, O: Modeling of the interaction of lower and higher modes in 2D MHD-equations, 3T979
SCHMIT, F: Viscoplastic analysis of adhesive joints, 9A1034
SCHMITENDORF, WE: H_{∞} control for seismic-excited build with acceleration feedback, 1A1388
- Experimental verification of H_{∞} and sliding mode control for seismically excited buildings, 6A1281
SCHMITT, DR: Velocity anisotropy observed in wellbore seismic arrivals: Combined effects of intrinsic properties and layering, 6A1257
SCHMITT, EW: Prototypic magnetohydrodynamic anode designs and test results, 4A1100
- Wall surface leakage effects on magnetohydrodynamic power generator performance, 6A1008
- Magnetohydrodynamic generator design for a combined-cycle demonstration powerplant, 8A1000
SCHMITT, R: High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441
SCHMITT, RG: Detonation wave structure of gases at elevated initial pressures, 5A1232
SCHMITT-V SCHUBERT, B: Approximate boundary conditions for the flow of a mixture of reacting gases, 2A911
SCHMITZ, P: Effect of surface roughness on the vapor flow under Leidenfrost-levitated droplets, 5A919
SCHMOLL, WJ: Characteristics of a velocity-modulated pressure-swirl atomizing spray, 2A933
SCHMOLZER, B: Dynamics of human flight on skis: Improvements in safety and fairness in ski jumping, 12A1494
SCHNEEBELI, M: Snow mechanics and avalanche formation: Field experiments on the dynamic response of the snow cover, 3A1395
SCHNEGGENBURGER, C: Extended FENE dumbbell theory for concentration dependent shear-induced anisotropy in dilute polymer solutions, 8A858
SCHNEIDER , SP: Quantitative molecular-mixing measurements using digital processing of absorption images, 3A975
SCHNEIDER, E: Shock and vibration of solder bumped flip chip on organic coated copper boards, 12A986
SCHNEIDER, GE: PHASES model for binary-constituent solid-liquid phase transition - Part 1: Numerical method, 1A1215
- PHASES model for binary-constituent solid-liquid phase transition - Part 2: Applications, 1A1216
- Pressure-based control-volume FEM for flow at all speeds, 2A898
SCHNEIDER, MC: Numerical study of the combined effects of microsegregation, mushy zone permeability and flow, caused by volume contraction and thermosolutal convection, on macrosegregation and eutectic formation in binary alloy solidification, 2A1105
SCHNEIDER, R: Computerized analysis of low-NO_x coal-fired utility boilers, 8A1277
SCHNELL, U: Trajectories of burning coal particles in highly swirling reactive flows, 5A1262
- Computerized analysis of low-NO_x coal-fired utility boilers, 8A1277
SCHNERR, GH: Theory of embedded shock formation in rarefaction waves by homogeneous condensation, 8A212
SCHNEUR, R: Structural optimization using the Newton modified barrier method, 6A725
SCHNIPP, AI: Thermodynamic constraints for constitutive equations in thermoviscoelasticity: New relationships between cross effects, 2A1155
SCHNORHK, AJ: Design studies of the advanced technology engine, 4A1270
SCHOBEIRI, MT: Development of a 2D turbulent wake in a curved channel with a positive streamwise pressure gradient, 12A1120
SCHOECK, G: Core energy of dislocations, 2A367
- Dislocation emission from crack tips as a variational problem of the crack energy, 8A628
SCHOENBERG, M: Finite-difference modeling of faults and fractures, 1A1383
SCHOENBERGER, M: Optimum weighted stack for multiple suppression, 11A1377
SCHOENFELD, SE: Through thickness texture gradients in rolled polycrystalline alloys, 8A549
SCHOENMAKERS, AME: Influence of sorption isotherms on the drying of porous materials, 11A1223
SCHOENMAN, L: Test experience, 490-N high-performance [321-s specific impulse] engine, 2A1201
- 4000°F materials for low-thrust rocket engines, 4A1268
SCHOENWALD, DA: Control of flexible manipulators via singular perturbations and distributed vibration damping, 7A441
SCHOFIELD, AN: Design and performance of an equivalent-shear-beam container for earthquake centrifuge modeling, 9A1378
SCHOKKER, A: Dynamic interactive buckling of ring stiffened composite shells, 3A559
- Dynamic buckling of composite shells, 7A675
SCHOLZ, R: Simplified modeling of NO formation in technical combustion processes, 1A1327
SCHOMBURG, WK: Microvalves with bistable buckled polymer diaphragms, 10T462
SCHONEMANN, A: Mass spectrometric investigation of high enthalpy plasma flows, 3A993
SCHONEMANN, AT: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024
SCHOPF, W: Natural convection in a side-heated cavity: Visualization of the initial flow features, 1A1189
SCHOPPA, W: New mechanism of small-scale transition in a plane mixing layer: Core dynamics of spanwise vortices, 2A868
SCHORGHOFER, N: Viscous subrange determines inertial range properties in turbulence shell models, 4A1088
SCHOTT, W: Frequency-dependent Q-estimation of Love-type channel waves and the application of Q-correction to seismograms, 3A182
SCHOTTLE, UM: Decomposition algorithm for performance optimization of a launch vehicle, 10A942
SCHOUTEN, G: Momentum, pressure, and energy in the Trefftz-plane, 2A907
SCHOWALTER , WR: LDA measurements of steady streaming flows of Newtonian and viscoelastic fluids, 5A896
SCHOWALTER, WR: Interactions of two jets in a channel: Solution multiplicity and linear stability, 11A976
SCHOYER, HFR: Design studies of the advanced technology engine, 4A1270
SCHRADER, CD: Corrosion fatigue of AZ91E-T6 cast magnesium alloy in a 3.5 percent NaCl aqueous environment, 5A608
SCHRAMM, U: Shape design for thin-walled beam cross sections using rational B splines, 4A860
- Optimal design of structures under impact loading, 6A719
SCHRAUF, G: Evaluation of transition in flight tests using nonlinear parabolized stability equation analysis, 11A1028
SCHRECK, SJ: Neural network prediction and control of 3D unsteady separated flowfields, 5A934
- Real-time model of 3D dynamic reattachment using neural networks, 5A935
- Dynamic reattachment on a downward pitching finite wing, 9A1218
SCHREFLER , BA: Finite element in environmental engineering: Coupled thermo-hydro-mechanical processes in porous media including pollutant transport, 2A1215
SCHREFLER, BA: Augmented Lagrangian algorithms for thermomechanical contact problems with friction, 1A1295
- Coupled model for water flow, airflow and heat flow in deformable porous media, 1A1369
- Shear band localization in saturated porous media, 3A1265
- Multiphase medium model for localization and post-localization simulation in geomaterials, 10A647
- Elastoplastic soil constitutive laws generalized to partially saturated states, 12A642
SCHREIBER, I: Chaotic Behavior of Deterministic Dissipative Systems, 8R3
SCHREIBER, M: Instability of buoyant diffusion flames, 8A1253
SCHREIBER, R: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
SCHREIBER, WC: Use of conjugate gradients method with a segregated finite volume procedure for solving transient, incompressible Navier-Stokes equations, 3A912
SCHREYER , HL: Incompressible constraint of the 4-node quadrilateral element, 2A32
SCHREYER BENNETHUM, L: Multiscale, hybrid mixture theory for swelling systems - II: Constitutive theory, 5A1206
- Multiscale, hybrid mixture theory for swelling systems - I: Balance laws, 5A1205
SCHREYER, HL: Constitutive models for healing of materials with application to compaction of crushed rock salt, 2A608
- Experimental and numerical investigation of failure of alumina under plane stress, 3A649
- Anisotropic yield surfaces based on elastic projection operators, 5A418
- Flutter and divergence instability of nonconservative beams and plates, 7A653
- Analytical and numerical tests for loss of material stability, 10A640
SCHRODERUS, L: Discrete methods for boundary integral equations on smooth closed curves, 2A41
SCHROEDER, JA: Evaluation of simulation motion fidelity criteria in the vertical and directional axes, 10A436
SCHROEDER, MR: Phase gratings with suppressed specular reflection, 2A230
SCHROEDER, T: Nonlinear impact analysis of laminated cylindrical and doubly curved shells, 4A525
SCHROLL, HJ: Finite-difference schemes for scalar conservation laws with source terms, 9A95
- Convergence of implicit finite difference methods applied to nonlinear mixed systems, 12A40
SCHROPP, J: Reduction principle for ω-limit sets, 12A91
SCHROTER, RC: Mechanical behavior of a mammalian lung alveolar duct model, 5A1376
- Mathematical model for the morphology of the pulmonary acinus, 11A1462
SCHUBERT, A: Finite element analysis of substation composite insulators, 7A20
SCHUELLER, GI: Probabilistic criterion for evaluating the goodness of fatigue crack growth models, 8A599
SCHUELLER, JK: Robotic analyses and simulation of automatic control of excavator finish trenching, 7A406
- Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, 12A423
SCHUELLER, W: Design of Building Structures, First Edition, 8N13
SCHULGASSER, K: Theory of poroelastic beams with axial diffusion, 4A541
- Bifurcation of orthotropic solids, 12A608
SCHULKES, RMSM: Contraction of liquid filaments, 8A931
SCHULLER, MP: Experimental evaluation of masonry-infilled RC frames, 8A746
SCHULLER, WM: Impact of diversity in aircraft noise ratings, 7A353
SCHULSON, EM: Ductile-to-brittle transition and ductile failure envelopes of orthotropic ice under biaxial compression, 2T1279
SCHULT, DA: Forced forward smolder combustion, 7A1307
SCHULTE, K: Comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on FE analysis and extended classical lamination theory, 1A553
- S-glass-Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation, 1A563
SCHULTEN, JBHM: Effects of asymmetric inflow on near-field propeller noise, 7A312
- Advanced propeller performance calculation by a lifting surface method, 11A1067
SCHULTHEISZ, CR: Compressive failure of composites - Part I: Testing and micromechanical theories, 3A692
- Compressive failure of composites - Part II: Experimental studies, 3A693
SCHULTZ, AB: Postural control in young and elderly adults when stance is perturbed: Dynamics, 6A1328
SCHULTZ, CA: Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, 6A1247
- Experimental study of enchanced backscattering from a highly irregular, acoustic-elastic interface, 7A368
SCHULTZ, J: Expansion of a cavity in a rubber block under stress: Application of the asymptotic expansion method to the analysis of the stability and bifurcation conditions, 3A426
- Deductive theory of friction, 3A822
- Geometrically nonlinear modeling of contact problems involving thin elastic layers, 12A494
- Deductive theory of friction - II: Mathematical study, 12A879
SCHULTZ, KJ: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046
SCHULTZ, KL: Vibrations of the low power atmospheric compensation experiment satellite, 1T405
SCHULTZ, RA: Rock Mechanics - Proc of 35th US Symp, Lake Tahoe, June 1995, 12N33
SCHULTZ, WW: Contact-induced nonlinearity in oscillating belts and webs, 3A128
SCHULZ, A: Mechanisms of coke formation in gas turbine combustion chambers, 10A1396
SCHULZ, H: Three-dimensional flow simulation on high-performance computers, 4A984
SCHULZE, WA: Modeling of piezoresistively-controlled electromechanical smart material, 3A768
SCHUMACHER, RT: Transient behavior of models of bowed-string motion, 2A100
SCHUMAKER, LL: Mathematical Methods for Curves and Surfaces, 2N54
SCHUMANN, U: Parallel solution of tridiagonal systems for the Poisson equation, 4A87
- Possible explanation of countergradient fluxes in homogeneous turbulence, 11A996
SCHUPP, BW: Role of pilot projects and public acceptance in developing wireless power transmission as an enabling technology for space solar power systems, 8A1388
SCHUSTER, GT: Simulation of 3D elastic wave propagation in the Salt Lake Basin, 6A1231
SCHUSTER, HG: Deterministic Chaos: An Introduction, Third Augmented Edition, 1N9
SCHUSTER, RL: Ribbon Cliff landslide, Washington, and the earthquake of December 14, 1872, 2A1234
SCHUTH, M: TV-shearography for measuring 3D-strains, 12A790
SCHUTTELAARS, HM: Idealized long-term morphodynamic model of a tidal embayment, 8A1355
SCHUTZ, W: History of fatigue, 10A742
SCHUURMANS, J: Open-channel flow model approximation for controller design, 1A971
SCHWAB, AA: Boundary integral equations for inverse problems in the elasticity theory, 7A52
SCHWAB, C: Optimal p-version approximation of singularities on polyhedra in the BEM, 10A52
SCHWARTZ, A: Consistent approximations for optimal control problems based on Runge-Kutta integration, 12T347
SCHWARTZ, HM: Sampled-data robot adaptive control with stabilizing compensation, 7A451
SCHWARTZ, IF: Multiple trenching: A simple self-calibrating method of residual-stress measurement, 2A379
SCHWARTZ, P: S-glass-Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation, 1A563
SCHWARTZ, S: Variation of regional seismic discriminants with surface topographic roughness in the western US, 12A1393
SCHWARTZ, SY: Source parameters of aftershocks of the 1991 Costa Rica and 1992 Cape Mendocino, California, earthquakes from inversion of local amplitude ratios and broadband waveforms, 6A1235
- Simultaneous inversion for earthquake location and velocity structure beneath central Costa Rica, 11A1355
- Seismic wave-field observations at a dense, small-aperture array located on a landslide in the Santa Cruz Mountains, California, 12A1385
SCHWARTZMAN, YI: Buckling of a thin elastic plate, 2A491
SCHWARZ, H: Logical valuation of connectives for fuzzy control by partial differential equations, 9A409
- Volterra series expansion for state quadratic systems, 10A433
SCHWARZ, MP: Simulation of gas injection into liquid melts, 5A916
SCHWEIG, ES: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
SCHWEITZER, G: Mechatronics: Basics, objectives, examples, 9A446
SCHWEITZER, J: Monitoring nuclear test sites with GERESS, 11A1390
SCHWEIZER, J: Snow mechanics and avalanche formation: Field experiments on the dynamic response of the snow cover, 3A1395
SCHWEIZERHOF, K: Boundary-domain element method for free vibration of moderately thick laminated orthotropic shallow shells, 2A109
- Boundary integral equation formulation for moderately thick laminated orthotropic shallow shells, 3A543

SCHWERTASSEK, R: Efficient simulation of tree-structured, free-floating multibody systems using momentum integrals, 7A88
SCHWESINGER, N: Modular microfluid system with an integrated micromixer, 10T465
SCIALOM, M: Asymptotic behavior of solutions of a generalized Boussinesq type equation, 2T353
SCIESZKA, SF: Study of materials wear resistance (Polish), 6A805
SCIME, EE: Low-energy neutral-atom imaging techniques for remote observations of the magnetosphere, 5A253
SCIORTINO, A: Partitioned solution procedure for simulating water flow in a variably saturated dual-porosity medium, 4T1308
SCITOVSKI, R: Method for solving the parameter identification problem for ordinary differential equations of the second order, 7A61
SCIUBBA, E: Modeling the energetic and exergetic self-sustainability of societies with different structures, 1A1435
SCIULLI, D: Fuzzy-logic based vibration suppression control experiments on active structures, 9A241
SCIUTO, SA: Verification of the duplex gauge using variable strains and temperatures, 12A806
SCOTT, BD: Second-order accurate implicit scheme for strongly-coupled fluid equations applied to fluid electron turbulence in a magnetized plasma, 8A995
SCOTT, CD: Aerothermal study of Mars Pathfinder aeroshell, 7A985
SCOTT, CP: Real inflections of hinged planar four-bar coupler curves, 2A828
SCOTT, JA: Mathematical model of a biosensor, 12A454
SCOTT, JC: Use of side-scan sonar for oceanographic investigations, 6A917
SCOTT, JR: New flux-conserving Newton scheme for the Navier-Stokes equations, 9T1087
SCOTT, MA: Human-in-the-loop evaluation of remote manipulator system active damping augmentation, 1A395
SCOTT, NH: Energy and dissipation of inhomogeneous plane waves in thermoelasticity, 12A221
SCOTT, RA: Application of topological optimization techniques to structural crashworthiness, 10A940
SCOTT, RC: Matched-filter and stochastic-simulation-based methods of gust loads prediction, 2A198
- Quasisteady aerodynamics for flutter analysis using steady computational fluid dynamics calculations, 7A293
SCOTT, RF: Decay of end-effects due to self-equilibrated loads, 6A377
SCOTT, RH: Intrinsic mechanisms in reinforced concrete beam-column connection behavior, 11A755
SCOTT, SK: Propagation of isothermal reaction-diffusion waves in coupled autocatalytic systems, 3A1197
SCOTT, TC: Computational analysis of electrohydrodynamics of a leaky dielectric drop in an electric field, 9A1207
SCOTT, TR: Thermal modeling and analysis of laser calorimeters, 10A1244
SCOTT, W: On-line monitoring of cutting tool wear through tribo EMF analysis, 1A938
SCOTTI, A: Welding arc pressure, 2A836
- Welding arc pressure, 3A870
SCOTTI, T: Shape reconstruction using diffracted waves and canonical solutions, 3A275
SCRIVEN, LE: Transport processes in periodic porous media, 2A1217
SCROGGS, JS: Conservative semi-Lagrangian method for multidimensional fluid dynamics applications, 1A1005
SCRUTTON , RF: Dynamics of closed-die forging with mechanical presses, 5A852
SCUDDER, LP: Measurement and prediction of time domain waveforms in fiber-reinforced laminates, 5A271
SEABRA, J: Non-Newtonian EHL model for traction evaluation in a roller-inner ring contact in a roller bearing, 12A1191
SEABRA-SANTOS, FJ: Breaking waves and wave-current interaction in shallow water: A 2DH FE model, 8A198
SEAH, KHW: Wear characteristics of sub-zero chilled cast iron, 10A977
SEAH, LEONG KEEY: Accuracy of some codes of practice in predicting the load capacity of cold-formed columns, 10A900
SEAH, LK: Ultimate strength of uniformly compression edge-stiffened thin-walled sections, 6A505
- Connections in cold-formed thin-walled structures, 11A830
SEALS, RK: Microstructural and phase characteristics of phosphogypsum-cement mixtures, 7A547
SEARBY, G: "Tulip flame" phenomenon, 9A1308
SEARCY, CK: Velocity structure beneath College Station Alaska from receiver functions, 11A1360
SEATON, NA: Gas and solute diffusion coefficients in pore networks and its description by a simple capillary model, 3A1254
SEBBEN, S: Extensions of tridiagonal and pentadiagonal matrix algorithms, 4A62
SECCHI, P: Initial boundary value problem for the equations of ideal magneto-hydrodynamics, 1A1093
SECOMB, TW: Stokes flow impinging on a spherical cap on a plane wall, 11A889
SEDDOUGUI, SO: Receptivity mechanisms for Gortler vortex modes, 2A944
- Effects of suction on the nonlinear stability of a 3D compressible boundary layer, 12A1144
SEDIN, VL: Calculation plates with wide ribs (Russian), 7T612
SEDMAK, A: Critical crack assessment procedure for high pressure steam turbine rotors, 2A622
SEDMAK, S: Critical crack assessment procedure for high pressure steam turbine rotors, 2A622
SEDWICK, JL: Nonlinear H_{∞} optimal control for agile missiles, 6A314
SEDZIWY, S: Explicit solution formulae for linear distribution differential equations, 9A186
SEE, H: Effect of blending particles with different conductivity on electrorheological properties, 11A856
SEEBASS, AR: Waverider design for generalized shock geometries, 5A907
SEED, RB: Liquefaction of sand under bidirectional monotonic and cyclic loading, 6A531
SEEDHOM, BB: Design of a non-constrained, non-cemented, modular, metacarpophalangeal prosthesis, 3A1418
SEEKINS, LC: Site amplification at five locations in San Francisco, California: A comparison of S waves, codas, and microtremors, 12A1386
SEELEY, CE: Decomposition-based optimization procedure for high-speed prop-rotors using composite tailoring, 2A1047
- Coupled controls-structures optimization procedure for the design of rotating composite box beams with piezoelectric actuators, 2A261
- Development of a polymeric piezoelectric C-block actuator using hybrid optimization technique, 6A508
- Multiple design point optimization of high-speed proprotors, 11T1027
SEEMANN, W: Vibrating cylinder in a cylindrical duct filled with an incompressible fluid of low viscosity, 5A219
- Fluid-structural coupling of vibrating bodies in a surrounding confined liquid, 8A219
SEERING, W: Fuel-efficient pulse command profiles for flexible spacecraft, 12A405
SEETHALER, RJ: Regulation of position error in contouring systems, 10A489
SEETHARAMU, KN: Convective heat transfer in axisymmetric porous bodies, 4A1167
SEFERIS, JC: Processing characteristics in different semi-crystalline thermoplastic composites using process simulated laminate (PSL) methodology, 10A718
SEGAL, A: Barrier strategies and capture criteria in a 3D pursuit-evasion differential game, 4T364
- Inertial space optimal trajectories of aerial 3D pursuit-evasion differential game, 11T309
SEGAL, C: Development of an experimentally flexible facility for mixing-combustion interactions in supersonic flow, 12A1325
SEGAWA, A: Rolling-deformation characteristics of clad materials determined by model experiments and numerical simulation: Numerical simulation of clad rolling by the rigid-plastic FEM, 3A603
SEGEL, L: Dynamics of Vehicles on Roads and on Tracks - Proc of 14th IAVSD Symp, Ann Arbor MI, Aug 21-25, 1995, 10N10
SEGEV, R: Stable observer-based trajectory controller for asymptotic model matching of a rigid robot, 6T331
SEGLETES, SB: Oblique impact modeling of fuzes, 9A283
SEGOVIA, F: Three-dimensional joint elements applied to concrete-faced dams, 2A780
SEHGAL, DK: Prediction of error of FE results, 12A28
SEHITOGLU, H: Comments on the Mroz multiple surface type plasticity models, 6A393
SEHMBEY, MS: Free expansion study of liquid nitrogen, 1A1061
- Effect of spray characteristics on spray cooling with liquid nitrogen, 3A1084
SEIBLE, F: Recent Developments on Lateral Force Transfer in Buildings - Proc of Thomas Paulay Symp, 12N31
- Seismic assessment and retrofit of bridge column footings, 7A949
SEIDELMANN, PK: Spaceflight Mechanics 1995, Part I and II - Advances in the Astronautical Sciences, Vol 89, 3N9
SEIDER, WD: Optimal interface for the Bridgman crystallization process, 8A1116
SEIF, NP: Sylvester's equation: Accuracy and computational stability, 4A363
SEIFERT, A: Turbulent spots in a laminar boundary layer subjected to a self-similar adverse pressure gradient, 1A1044
SEIMENIS, J: Method of rational approximations: Periodic orbits and quasiperiodicity, 10T117
SEINFELD, JH: Radial differential mobility analyzer, 2A1209
- Axisymmetric instrument response resulting from mixing effects in accelerated DMA-CPC measurements, 4A1281
- Atmospheric chemistry of alternate fuels and reformulated gasoline components, 7A1329
SEIREG, A: Empirical prediction of the shear layer thickness in lubricating films, 5A1087
SEITZ, TJ: Structural modeling for optimization of low aspect ratio composite wings, 2A1022
SEJNOHA, J: Behavior of composites on bounded domain, 11A57
SEKHAR, AS: Effects of coupling misalignment on vibrations of rotating machinery, 2A139
SEKHAR, GPR: Two dimensional Stokes flows with slip-stick boundary contitions, 2T877
SEKI, H: Study on crack models caused by pressure due to corrosion products (Japanese), 9A746
- Hydrogen embrittlement of prestressing steel (Japanese), 9A490
SEKI, W: Newly developed assumed stress FE formulations for geometrically and materially nonlinear problems, 5A34
SEKIGUCHI, H: Design formulae for a plate type magnetic damper with alternative magnetic poles, 1A119
SEKINE, H: Buckling design of symmetrically laminated plates using lamination parameters, 1A653
- Prediction of the fracture strength of notched continuous fiber-reinforced laminates by interlaminar crack extension analysis, 9A821
SEKIYA, T: Generation of free-form surface in CAD for dies, 1A436
- Steady thermal stress analysis by improved multiple-reciprocity BEM, 5A1199
- Two-dimensional thermal stress analysis under unsteady state by the improved BEM, 8A1240
- Axisymmetric thermal stress analysis in the steady state with heat generation in the region by BEM, 10A1343
SELAMET, A: Theoretical, computational, and experimental investigation of Helmholtz resonators with fixed volume: Lumped versus distributed analysis, 4T320
- Time-domain computational simulation of acoustic silencers, 5A280
SELBY, RG: Analysis of reinforced concrete members subject to shear and axial compression, 11A744
SELEIM, S: Behavior of low-ductility steels in cold-formed steel connections, 9A935
SELEMENEV, SV: Blade flap motion and lower-to-upper rotor blade tips clearances of coaxial helicopters, 7A1181
SELIG, MS: Natural-laminar-flow airfoil for general-aviation applications, 1A1103
- Application of a genetic algorithm to wind turbine design, 8A1394
SELIM, MA: Detailed kinetic study of ammonia oxidation, 8A1278
SELL, JA: Computational and experimental studies of laser-induced thermal ignition in premixed ethylene-oxidizer mixtures, 5A1210
SELLENS, RW: Distributive mass balance correction in single- and multigrid incompressible flow calculation, 11T903
SELLIN, RHJ: Turbulent-flow dye-streak technique, 5A977
SELMI, M: Numerical study of viscous flows inside partially filled spinning and coning cylinders, 12A1044
SELMIN, V: Unified construction of FE and finite volume discretizations for compressible flows, 5A906
SELMY, AI: Effect of fiber volume fraction on the fatigue behavior of GRP pultruded rod composites, 9A752
SELTSAM, MM: Experimental and theoretical study of wide-angle diffuser flow with screens, 4A1041
SELVADURAI, APS: Elasticity and Geomechanics, 9R9
- Note on the torsion of a non-homogeneous solid by an annular disc, 1A473
- Aspects of a nonlinear convection-diffusion equation arising in heat-induced moisture transport in porous media, 9A1375
- Certain two-punch problems for an elastic layer, 11A424
- Settlement of a rigid circular foundation resting on a half-space exhibiting a near surface elastic non-homogeneity, 11A526
SELWOOD, PM: Convergence rates and classification for 1D FE meshes, 6A6
SELYUGIN, SV: Optimal physically nonlinear trusses, 6A721
SEMAZZI, FHM: Conservative semi-Lagrangian method for multidimensional fluid dynamics applications, 1A1005
SEMENA, MG: Pressure effects on the heat transfer of a liquid boiling on a surface with a capillary-porous coating, 1A1250
SEMENOV, AP: Tribology at high temperatures, 1T939
SEMENOV, LP: Wave beam tremble within an absorbing random medium with lens properties, 10A260
- Wave beam tremble within an absorbing random medium with lens properties, 11A175
SEMENOV, PK: Surface effect vehicle flight control system with properties of adaptation, 8A320
SEMERCIGIL, SE: Variable stiffness control of a single-link flexible robotic arm, 4A405
SEMIATIN, SL: Modeling of thermal stresses and thermal cracking during heating of large ingots, 11A1244
SEMIDA, VV: Tribological properties of titanium-nickel compound at dry friction, 6A787
SEMINARA, G: Nearly-pure sorting waves and formation of bedload sheets, 10A1060
SEMLITSCH, M: Frictional resistance of new and explanted artificial hip joints, 5A771
SEMPER, B: Moving grid FEM using grid deformation, 3A31
SEMPREVIVA, AM: Humidity fluctuations in the marine boundary layer measured at a coastal site with an infrared humidity sensor, 12T1426
SEMYONOV, VV: Short nozzles for rocket engines, 6A961
SEN, D: Question of minimax loop-size in planar homogeneous kinematic chains, 12A981
SEN, JK: Influence of a tension load on laminates under torsion, 6A1038
SEN, S: Effects of variable property and surface radiation on laminar natural convection in a square enclosure, 1A1271
- Finite element evaluation of elasto-plastic accommodation energies during solid state transformations: Coherent, spherical precipitate in finite matrix, 6A15
SEN, Z: Volumetric leaky-aquifer theory and type straight lines, 10T1459
SEN-YUE, LOU: Similarity solutions of dispersive long-wave equations in two space dimensions, 1A228
SENCHENKOV , IK: Applied model of deformation of nonlinear viscoelastic vibroinsulators under cyclic deformation (Russian), 3A448
SENCHENKOV, IK: Power analysis of stressed-deformed state of viscoelastic disk with rigidly fixed faced under cyclic compression (Russian), 3A447
- Resonance vibrations of axisymmetrical electromechanical system with AFC (Russian), 7A1030
SENDER, E: 18G2A steel (construction steel) cyclic behavior in the case of complex uniaxial loading, 1A504
- Evolution of kinematic and isotropic hardening in the case of complex uniaxial loading, 10A542
SENDER, J: LDA measurements in the near-wall region of a turbulent pipe flow, 1A246
SENER, S: Ribbed cylindrical shells under a concentrated transverse load, 4T560
SENGUPTA, AK: Modeling of roller cone bit lift-off dynamics in rotary drilling, 5A1346
SENGUPTA, PR: Unsteady hydromagnetic flow of two immiscible visco-elastic (Walter liquid B') conducting liquids between two inclined parallel plates, 11A1010
SENGUPTA, S: Thermal Engineering for Global Environmental Protection, 10N42
- Three dimensional seismic modeling by FE condensation technique, 5A1311
SENGUPTA, SP: Irreversibility analysis of a sieve tray in a distillation column, 7A1201
SENITSKY , YE: Axisymmetrical dynamic problem for nonhomogeneous shallow spherical shell with finite shift liquid (Russian), 3A536
SENJANOVIC, I: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
- Advances of the harmonic balance method, 9T148
SENJUNTICHAI, T: Indirect boundary integral equation method for poroelasticity, 2A1226
SENKAN, SM: Chemical structures of fuel-rich, premixed, laminar flames of 1,1-$C_2H_4Cl_2$/CH_4/O_2/Ar, 3A1208
- Micro-structures of premixed hydrocarbon flames: Methane, 5A1228
- Chemical structures of fuel-rich flames of trans-$C_2H_2Cl_2$-CH_4-Ar-O_2 mixtures, 7A1330
SENKAYA, E: Simple FE for beams on elastic foundations, 5A36
SENOCAK, E: Optimally reinforced cutouts in laminated circular cylindrical shells, 4A556
SENSENEY, MB: Performance characterization of a highly offset diffuser with vortex generator jets, 8A957
SENSENY, PE: Experimental determination of probability distributions for parameters of a salem limestone cap plasticity model, 1A709
SENSHARMA, P: Analytical and experimental comparison of probabilistic and deterministic optimization, 12A808
SENTHIL VELAN, M: Lie symmetries and invariant solutions of the shallow-water equation, 11A188
SENTHIL, S: Optimal preview control of a two dof vehicle model using stochastic optimal control theory, 12A410
SENTMAN, LH: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082
SEO KOO, JEONG: Development of a new curved beam element with shear effect, 11A504
SEO, D-J: Nonlinear estimation of spatial distribution of rainfall: An indicator cokriging approach, 11T1413
SEO, HK: Ductile crack initiation in steels, 6A647
SEO, JIN H: Frequency domain method for decentralized stabilization based on quasi-block diagonal dominance, 11T273

SEO, K: Evaluation of adhesive strength of resin liner film, 10A1038
SEO, SEUNG IL: Study on the optimum structural design of surface effect ships, 6A726
SEOK, CHANG-SUNG: Prediction of fracture resistance curves from tensile data for carbon steel piping materials, 12A747
SEOL, SY: Measurement of residual stresses in a circular ring using the successive cracking method, 10A556
SEPEHRI, N: Extended integral method to derive Lyapunov functions for nonlinear systems, 2T248
SEPULVEDA, AE: Structural-control system optimization with variable actuator masses, 2A738
- Design of structure-control systems with transient response constraints exhibiting relative minima, 6A714
- Improved transient response approximation for general damped systems, 11A722
- Repulsion algorithm, a new multistart method for global optimization, 12A829
SERAG, AM: Practical identification and PI optimal controller of a laboratory drive system, 2A291
SERAJ, SM: Application of the compressive-force path concept in the design of reinforced concrete indeterminate structures: A pilot study, 8A740
SERAJI, H: Experiments in contact control, 7A442
- New results on adaptive impedance control for dexterous manipulators, 10A487
SERAKOS, D: Linearized kappa guidance, 3T350
SEREGIN, G: Dual FE approach for stresses of elasto-perfectly plastic bodies, 3A478
SERGEEV, VK: US and Russian thermal control coating results in low Earth orbit, 7A992
SERGEYEV, O: Design of joint position for minimum mass 3D frames, 11A719
SERHAL, SP: Shear strength of reinforced polyester concrete using recycled PET, 1A893
SERHAN, HA: Multidisciplinary design optimization of lumbar transpedicular screws, 6A856
SERIANI, G: Torsional oscillations of anisotropic hollow circular cylinders, 2A113
SERIO, C: Inverting high spectral resolution aerosol optical depth to determine the size distribution of atmospheric aerosol, 4A1288
SERIZAWA, A: Advances in Multiphase Flow 1995 - Selected papers from 2nd Int Congress on Multiphase Flow, Kyoto, Japan, April, 1995, 5N24
SERNAS, V: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 12, 3N43
SERO-GUILLAUME, O: Optimal time re-entry of vehicles by asymptotic matching, 6A318
SEROV, VM: Rotation of an axisymmetric rigid body with bihermonic characteristic of the restoring torque, 6A79
SERPAK, IO: Dynamics of deep-sea cable system (Russian), 7T599
SERPE, L: Nonlinear transition period of broadband ultrasound attenuation as bone density varies, 12A1449
SERRETTE, R: Shear resistance of gypsum sheathed light-gauge steel stud walls, 10A937
SERRY, FM: Anharmonic Casimir Oscillator: The Casimir effect in a model microelectromechanical system, 5T346
SERVIN, M: Noisy fringe pattern demodulation by an iterative phase locked loop, 3A730
SESHADRI, A: Shear strength of beams with corrugated webs, 10A599
SESHADRI, R: Robust limit loads of symmetric and non-symmetric plate structures, 3A534
- Viscoelastic fluid flow over a continuous stretching surface with mass transfer, 4T968
- Robust stress-classification of pressure components using the GLOSS and GLOSS r-node methods, 10A956
SESHADRI, SK: Tribological properties of cobalt-partially stabilized zirconia (PSZ) composites in dry sliding conditions, 4A845
SESHAN, S: Effect of structural features on erosion resistance of cast irons, 10T987
SESHIMO, Y: Perforated trapezoidal fins for tube-in-fin heat exchangers: Heat transfer and pressure drop characteristics, 8A1193
SESTAK, J: Methods for improving the adhesive properties of isotactic polypropylene - I: Modification of polypropylene surface properties via electrical discharge, 6T789
- Methods for improving the adhesive properties of isotactic polypropylene - II: Modification of the surface properties of isotactic polypropylene using chemical oxidizing methods, 6T790
- Kinetics and mechanism of processes in the system $FeSO_4 \times 7H_2O$-MnO_2, 8A1265
SESTIERI, A: Energy density equations and power flow in structures, 6A51
- Envelope energy model for high frequency dynamic structures, 6A52
- Regularization techniques for dynamic model updating using input residual, 9A69
- Circumventing space sampling limitations in mechanical vibrations, 11A99
SETA, K: Polychromatic light interferometer for high-accuracy positioning, 5A386
SETAKA, M: Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, 1T862
SETHI, S: Performance and cost modeling of ultrafiltration, 6T1306
SETHIAN, JA: Dynamical behavior of a premixed turbulent open V-flame, 4A1260
- Level set approach to a unified model for etching, deposition, and lithography - Part II: 3D simulations, 5A1208
SETHURAMAN, C: Design performance and economics of a low-cost solar wax melter for the candle industry, 8A1383
SETHURAMAN, R: Continuum damage mechanics model for void growth and micro crack initiation, 9A742
- Upper-bound and FE analysis of axisymmetric hot extrusion, 10A699
SETHURAMIAH, A: Acoustic emission in dynamic compression and its relevance to tribology, 4T664
SETHURMAN, R: Finite element evaluation of elasto-plastic accommodation energies during solid state transformations: Coherent, spherical precipitate in finite matrix, 6A15
SETO, ML: Control of wind-induced instabilities through application of nutation dampers: A brief overview, 4A214
SETOGUCHI, T: Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, 7T1080
SETOUCHI, H: Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), 10A914
SETTLES, GS: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
- Measurements of the triple shock wave-turbulent boundary-layer interaction, 6A950
- Flowfield surveys and computations of a crossing-shock wave-boundary-layer interaction, 6A948
- Unsteady pressure loads generated by swept-shock-wave and boundary-layer interactions, 11A949
SEVASTYANOV, VV: Development and adoption of new high-strength babbitts for rolling stock sliding bearings, 5T825
SEVERTSEV, NA: Optimal choice of a variant of a technological product, 9T468
SEVERTSON, YC: Stability of two-layer stratified flow in inclined channels: Applications to air entrainment in coating systems, 10A1169
SEVOST'YANOV, IB: Elastoplastic properties of polycrystals, 6T394
SEYED-YAGOOBI, J: Electrohydrodynamically enhanced heat transfer in pool boiling, 8T1150
- Self-oscillation enhancement of impingement jet heat transfer, 10T1318
- Experimental study of electrohydrodynamically augmented condensation heat transfer on a smooth and an enhanced tube, 11T1174
- Combustion measurements from an impinging radial jet reattachment flame, 12A1324
SEYMOUR, BR: No-slip boundary condition in finite difference approximations, 10A41
SEYWALD, H: Fuel-optimal stationkeeping via differential inclusions, 3T349
- FEM for the solution of state-constrained optimal control problems, 3A23
- Finite difference scheme for automatic costate calculation, 6A306
- Long flight-time range-optimal aircraft trajectories, 6T1020
- Should controls be eliminated while solving optimal control problems via direct methods?, 8A289
- Dense-sparse discretization for optimization and real-time guidance, 8T308
- Variational solutions for the heat-rate-limited aeroassisted orbital transfer problem, 11T320
SEZAI, I: Effect of bottom reflectivity on ground heat losses for solar ponds, 3A1367
SFENDJI, A: Strain-based FE for the out-of-plane vibration of curved beams, 3A38
- Natural frequencies of cylindrical shells using a shallow-shell FE, 3A135
SHA, D: Overview of recent advances and evaluation of the virtual-pulse (VIP) time-integral methodology for general structural dynamics problems: Computational issues and implementation aspects, 11A158
SHA, DESONG: Virtual-pulse time integral methodology: A new approach for computational dynamics - Part I: Theory for linear structural dynamics, 1A111
- Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 2: Theory for nonlinear structural dynamics, 1A112
- Robust explicit computational developments and solution strategies for impact problems involving friction, 8A191
SHA, JZ: Effects of acoustic excitations on active flutter control, 8A224
SHA, WT: Transient flows and pressure waves in pipes, 1T972
SHAABAN, SM: Statistical norms for off-road wheeled vehicle parameters, 3A162
SHABANA, AA: Theory of Vibration: An Introduction, Second Edition - Mechanical Engineering Series, 7N9
- Equivalence of the driving elastic forces in flexible multibody systems, 1A87
- Effect of mass capture on the propagation of transverse waves in rotating beams, 3A176
- Geometrically nonlinear formulations of beams in flexible multibody dynamics, 5A77
- Resonance conditions and deformable body co-ordinate systems, 10T86
- Finite element incremental approach and exact rigid body inertia, 12A9
SHABARA, MAN: Determination of stretch-bendability of sheet-metals, 8A551
SHABBIR, A: X-wire response in turbulent flows of high-intensity turbulence and low mean velocities, 6A1051
SHABUNEVICH, VI: Local stress state definition of structural elements using holographic interferometry, 2A685
SHACKELFORD, CD: Cumulative mass approach for column testing, 2A1168
SHACKELFORD, JF: CRC Practical Handbook of Materials Selection, 7N31
SHAFER, MW: Diaphragm effectiveness in prestressed-concrete girder bridges, 1A911
SHAFIQUZZAMAN KHAN, M: Annoyance of idling diesel engine noise evaluated by multivariate analysis, 7A348
SHAGHOUEI, E: Use of FEM as an effective teaching tool and as a flexible aid in the simulation of manufacturing processes and multiple rigid-body collisions, 7A26
SHAH, A: Stability of thin-walled pultruded structural members by the FEM, 5A37
- Ash vaporization in circulating fluidized bed coal combustion, 9A1322
SHAH, AH: Finite element modeling of transmission line galloping, 1A143
- Evaluations of Cauchy principal value integrals and weakly singular integrals in BEM and their applications, 9A101
- Perturbation-based FE analyses of transmission line galloping, 10A315
- Kryiov-Bogoliubov and Galerkin methods for nonlinear oscillations, 10A108
SHAH, DK: Interfacial stress estimation using least-square extrapolation and local stress smoothing in laminated composites, 4A532
SHAH, JJ: Complex modal analysis of a flat belt pulley system with belt damping and Coulomb-damped tensioner, 12A950
SHAH, PL: Influence of mean flow on boundary layer generated interior noise, 12A275
SHAH, SP: Fracture Mechanics of Concrete and Rock: Applications of Fractures Mechanics to Concrete, Rock, and Other Quasi Brittle Materials, 1R17
- Relationship between fracture parameters from two parameter fracture model and from size effect model, 9A793
SHAHAWY, M: Dynamic behavior of horizontally curved I-girder bridges, 1A173
- Vibration of thin-walled box-girder bridges excited by vehicles, 1A175
- Dynamic response of highway girder bridges, 12A199
SHAHI, EP: Stress concentration factors for multiplanar joints in RHS, 11A839
SHAHIEN, MA: Radiometric measurements of wall temperatures in the 800 K to 1150 K range for a quartz radiant heating tube, 3T1132
SHAHRUZ, SM: Bounded-input bounded-output stability of damped linear strings, 10T159
- Bounded displacement of a damped nonlinear string, 12T156
SHAHZAD, N: Methods of generalized quasilinearization for periodic boundary value problems, 11T67
SHAILAJA, R: Inverse scattering transform analysis of KdV-Burgers' equation, 5A198
SHAJII, A: Theory of thermal hydraulic quenchback, 4A1146
- Theory of low Mach number compressible flow in a channel, 11A203
SHAKED, U: Output-feedback mixed H_∞/H_2 control: A dynamic game approach, 11T296
SHAKERLEY, TM: Elastic buckling of plates with eccentrically positioned rectangular perforations, 12A620
SHAKHESI, S: Optimal constrained layer damping of beams: Experimental and numerical studies, 3A122
SHAKIROV, NV: Nonisothermal pulsating flow of a viscoelastic fluid, 10A1266
SHALEV, D: Nonlinear analysis using a modal-based reduction technique, 1A153
- Coupled micro to macro analysis of a composite that hosts embedded piezoelectric actuators, 9A648
SHALTOUT, AA: Evaluating the dynamic performance of multimachine power systems with VAR compensation using synchronizing and damping torques, 11A80
SHAMASUNDAR, S: Measuring and modeling the thermophysical properties of porous alpha-two titanium aluminide compacts, 1A1158
SHAMES, IH: Energy and Finite Element Methods in Structural Mechanics, SI Units Edition, 12N2
- Engineering Mechanics: Statics, Fourth Edition, 9N13
SHAMIM, M: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
SHAMMA, JS: Optimal asymptotic robust performance via nonlinear controllers, 5A325
SHAMOTO, E: Development of precision feed mechanism by applying principle of walking drive - 2nd report: Development of feed velocity control method and ultraprecision positioning system (Japanese), 2A337
SHAMOTO, Y: Aseismic evaluation of geogrid-reinforced embankments with steep slope using centrifuge modeling, 4A620
SHAN, CH: Mechanical behavior of carbon-carbon composites made with cold plasma treated carbon fibers, 2A421
SHAN, GX: Note on calibration of ductile failure damage indicators, 8A632
SHAN, WANG: Size distributions of coarse sand bed load in turbulent flow field, 4T925
SHANEBROOK, JR: Flow visualization with air and smoke in a bypass graft model under steady flow conditions, 1A1453
SHANG, BAOZHONG: Stress analysis of the precision forging die for a bevel gear and its optimal design using the BEM, 3A50
SHANG, EC: Note on horizontal-refraction-modal tomography, 3A258
SHANG, HM: Shearographic and holographic assessment of defective laminates with bond-lines of different elastisities, 5A656
- Determination of necking zone using laser speckle, 10A853
SHANG, HONG-XUE: Low cycle fatigue stress-strain relation model of cyclic hardening or cyclic softening materials, 10A732
SHANG, JK: Shear-driven high-temperature fatigue crack growth in polycrystalline alumina, 3A653
- Fatigue crack tip opening behavior in particulate reinforced Al-alloy composites, 5A594
- Experimental technique for studying mixed-mode fatigue crack growth in solder joints, 12A716
- Fatigue crack initiation in solder joints, 12A707
SHANG, JQ: Improvement of soft clays by high-voltage electrokinetics, 9A664
SHANG, JS: Performance of a finite volume CEM code on multicomputers, 4A53
- Structure of a turbulent double-fin interaction at Mach 4, 4A1030
- Performance of eddy-viscosity-based turbulence models in 3D turbulent interaction, 9T1197
SHANG, PENGJIAN: Increasing property of spectrum in the vibrations of a cyclic chain of masses distributed according to the GTM sequence, 4A199
SHANG, YL: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22
SHANIAVSKI, AA: Effect of pressure overload on fatigue crack growth in pressure vessels, 8A572
SHANKAPAL, SR: Preliminary investigations of combustion of pulverized coconut shell-based fuel slurries in an oil-fired foundry furnace, 3A1223
SHANKAR, K: Energy flow predictions in a structure of rigidly joined beams using receptance theory, 2A84
SHANKAR, N: Numerical analysis of relaxor ferroelectric multilayered actuators and 2-2 composite arrays, 7A595
- Finite element method for electrostrictive ceramic devices, 9A37
SHANKAR, NJ: Bifurcation behavior and wave slamming force on a compliant horizontal cylinder, 12A262
SHANKAR, S: Singularities in mechanisms: The local trajectory tracking problem, 2A305
SHANKARA, CA: C^0 element for the free vibration analysis of laminated composite plates, 10A28
SHANKLAND, R: Flame curvature statistics in axisymmetric turbulent jet flames, 5A1218
SHANMUGA BABU, R: Review of analysis of tube sheets, 10A607
SHANMUGAM, NE: Ultimate strength analysis of stub girders, 1A896
- Local buckling of stiffened plates in offshore structures, 12A622
SHANMUGAM, P: Studies on the impact behavior of banded microalloyed steel, 9A834
SHANNON, GF: Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, 7T1412
SHANNON, M: Estimates of the Clementine interstage adapter satellite tumbler rate, 5T744
SHANYAVSKY, AA: Fractographic analyses of fatigue crack growth in D16T alloy subjected to biaxial cyclic loads at various R-ratios, 5T589
SHAO, CHENGXUN: Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), 4A108
SHAO, J-F: Poroplastic behavior of porous rocks, 1A708
SHAO, JF: Experimental and numerical investigations on transient creep of porous chalk, 1A707
- Continuum damage mechanics approach for time-independent and dependent behavior of brittle rock, 11T574
SHAO, PENG-LI: Solution of nonlinear FE problems with not well-conditioned stiffness matrices, 2A28
SHAO, XIAO-YUN: Punching shear of continuous flat reinforced concrete slabs, 9A597
SHAPIRO, AA: Nonequilibrium segregation state of a two-phase mixture in a porous column, 10A1416

SHAPIRO, HN: Fundamentals of Engineering Thermodynamics, Third Edition, 4R31
SHAPIRO, M: Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, 8A1247
- Mechanics of collisional motion of granular materials - Part 3: Self-similar shock wave propagation, 12A1334
SHAPIRO, SA: AVO correction for scalar waves in the case of a thinly layered reflector overburden, 8A1326
SHAPIRO, V: Fringe-pattern recognition by using the polar-coordinate transform, 5A681
SHAPLEY, N: Sedimentation of a sphere through an elastic fluid - Part I: Steady motion, 4A21
SHAPOVALOV, LA: Representation of the linear plate and shell theory equations with allowance for transverse shear deformation, 6T475
SHAQFEH, ESG: Nonlocal theory for stress in bound, Brownian suspensions of slender, rigid fibers, 1A966
- Purely elastic instabilities in viscometric flows, 6A380
SHARAF, SM: Practical identification and PI optimal controller of a laboratory drive system, 2A291
SHARAFUTDINOV, GZ: How to describe large elastic deformation, 3A1
SHARDAKOV, IN: Boundary element approach to the solution of 3D problems of the theory of elasticity by the geometrical immersion method, 2A381
- Technological stresses in a composite plate with a honeycomb filler, 6A485
SHARF, I: Geometric stiffening in multibody dynamics formulations, 1A83
- Geometrically nonlinear beam element for dynamics simulation of multibody systems, 8A94
SHARIF, AM: Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505
- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573
SHARIFI, H: Double mapping of isoparametric mesh generation, 8A54
SHARIPOV, FM: Heat conduction through a rarefied gas between two rotating cylinders at small temperature difference, 2A918
SHARIYAT, M: Technique to distinguish the primary and secondary stresses, 5A759
SHARKADY, MT: Experimental study of bifurcation, chaos, and dimensionality in a system forced through a bifurcation parameter, 4A121
SHARMA , MM: Adhesion and hydrodynamic removal of colloidal particles from surfaces, 7A1034
SHARMA, BB: Elastic constants for a two phase isotropic composite, 4A515
SHARMA, CB: Free vibration response of multilayered orthotropic fluid-filled circular cylindrical shells, 11A121
SHARMA, JS: Finite element analysis of centrifuge tests on reinforced embankments on soft clay, 12A667
- Centrifuge modeling of an embankment on soft clay reinforced with a geogrid, 12A659
SHARMA, OP: Unsteady multistage analysis using a loosely coupled blade row approach, 8A1027
SHARMA, PB: Instantaneous thermal efficiency of an active solar still, 5A1348
SHARMA, R: Elastic constants for a two phase isotropic composite, 4A515
- Distribution of body stresses in an n-phase composite body: Prior to outside loading, 5A485
- Experimental study of crack-induced dynamic damage growth in fiber composites, 6A663
- Global performance evaluation of image features for visual servo control, 8A302
SHARMA, RC: Thermal convection in micropolar fluids in porous medium, 2A1107
- Hall effect on thermosolutal instability in a Maxwellian viscoelastic fluid in porous medium, 9A1204
SHARMA, S: Slope Stability and Stabilization Methods, 5R17
SHARMA, SC: Wear characteristics of sub-zero chilled cast iron, 10A977
SHARMA, SK: Rheology of perfluoropolyalkylether fluids in elastohydrodynamic lubrication, 2T1058
SHARMA, SP: Computations axisymmetric flows in hypersonic shock tubes, 6A923
- Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
SHARMA, VD: High and low frequency small amplitude disturbances in a perfectly conducting and radiating gas, 4A310
- Strong converging shock waves in a radiating gas, 5A215
SHARMAN, KC: Genetic algorithm automated approach to the design of sliding mode control systems, 10A426
SHARMAN, RD: Atmospheric Ice waves, 6A934
SHARP, DH: Numerical investigation of Richtmyer-Meshkov instability using front tracking, 4A1063
SHARP, JJ: Numerical model for sea outfall hydraulics, 6A892
SHARP, RS: Performance potential and power consumption of slow-active suspension systems with preview, 8A332
SHARPE JR, WN: System for measuring biaxial creep strains over short gage lengths, 10A849
SHARPE, WN: Measurement of cyclic biaxial elastoplastic stresses at notch roots, 5A438
SHASHIDHAR, NS: Eigenray tracing in an ocean using Fermat's principle, 2A181
SHASHKOV, M: Conservative Finite-Difference Methods on General Grids, 6N4
SHATALOV, AP: Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, 1A1281
SHATSKY, IP: Nonideal contact in the composite shell construction with deformable filler (Russian), 7A581
SHATSOV, AA: Friction and wear of powder steels at limited lubrication, 6A783
SHAUGHNESSY, EJ: Low Rayleigh number conjugate convection in straight inclined fractures in rock, 3A1041
SHAVE, GC: Deformation and tearing of thin square plates subjected to impulsive loads: An experimental study, 5A445
SHAVIT, A: Effect of surface segregation kinetics on the effective thermal conductivity of porous ceramics, 8A1247
SHAVIT, U: Development and evaluation of a new turbulence generator for atomization research, 8A933
SHAVIV, GE: Robust control design strategy with parameter-dominated uncertainty, 11A299
SHAW, AK: Shaping time response by state feedback in minimum-phase systems, 1T373
SHAW, CT: Dynamical characterization of the spatiotemporal structures in the wake of a bluff body, 8A961
SHAW, D: Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374
SHAW, JK: Effects of wave asymmetry on sheet flow, 2T857
SHAW, L: Free edge effect on residual stresses and debond of a composite fiber-matrix interface, 1A540
SHAW, LL: Effects of an interfacial region on the transverse behavior of metal-matrix composites: A FE analysis, 9A558
SHAW, R: Boundary Element Technology XI - Int Conf on Boundary Element Technology, BETECH 96, 10N2
SHAW, RP: Wave motions in stochastic heterogeneous media: A Green's function approach, 3A268
- Trefftz method as an integral equation, 5A52
- Interrelated fundamental solutions for various heterogeneous potential, wave and advective-diffusive problems, 5A46
- Boundary Integral Equation formulation of a linearly layered potential problem, 5A1171
- Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - I: Fundamental solutions, 8A171
- Harmonic wave propagation through viscoelastic heterogeneous media exhibiting mild stochasticity - II: Applications, 8A172
- Boundary integral formulation for 2D and 3D thermal problems exhibiting a linearly varying stochastic conductivity, 10A1293
SHAW, SJ: Interaction of a single laser-generated cavity in water with a solid surface, 10A345
SHAW, SW: Advances in Nonlinear Dynamics: Methods and Applications, 5N9
SHAW, SW: Nonlinear normal modes, invariance, and modal dynamics approximations of nonlinear systems, 4A122
SHAW, SW: Counteraction of periodic torques for rotating systems using centrifugally driven vibration absorbers, 10A235
- Normal modes for piecewise linear vibratory systems, 12A118
SHAW, WJD: Correlation of fatigue crack growth behavior with crack closure in pooled specimens, 1A743
SHAWAQFEH, AT: Distillation of ethanol in a solar still: Studies on heat and mass transfer, 3A1366
- New development in the theory of heat and mass transfer in solar stills, 5A1354
SHAWKI, TG: Thermodynamic restrictions on constitutive equations for second-deformation-gradient inelastic behavior, 3A2
- Clausius-Duhem inequality and the structure of rate-independent plasticity, 11A455
SHAWKY, A: Computational approach to path-dependent nonlinear RC-soil interaction, 9A908
SHAWKY, AM: In-process evaluation of workpiece geometrical tolerances in bar turning, 3A621
SHAY JR, RM: Thermodynamic constitutive equations for materials with memory on a material time scale, 6A1064
SHAYLER, PJ: Experimental data processing techniques to map the performance of a spark ignition engine, 4A1265
SHAZALI, AM: HLXVIB: A computer code for free vibration analysis of circular helicoidal bars, 10A148
SHCHERBAKOV, VA: Macrokinetics of SHS infiltration, 5A1234
SHCHERBAKOV, VM: Calculation of rolling-contact bearing service life under variable conditions of loading, 6A810
SHCHERBIK, DV: Computation of supersonic flow over spatial configurations with sharp leading edges, 12T1175
SHCHUKIN, ED: New applications of the Rehbinder effect in tribology: A review, 12A932
SHCHUKIN, VK: Determination of heat transfer through a vapor gap at boiling cryogenic liquid in the Leidenfrost regime, 11A1173
SHCHUROV, AA: Disturbance growth control in a boundary layer, 10A1134
SHCHURUK, GI: Effect of liquid viscosity on the waves in elastic layer preliminarily strained with compression and interacting with liquid medium (Russian), 3A219
SHE, KM: Local stiffening effect of "double deck" bending strain gauges - Part 2, 12A805
SHEA, KS: Electrostatic harmonic microactuator for arterial plaque removal, 6A346
SHEA, M: Optimization technique for the calculation of in-vitro 3D vertebral motion, 5A1394
SHEAHAN, TC: Rate-dependent undrained shear behavior of saturated clay, 7A691
SHEBEKO, YN: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
SHEDLOCK, KM: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
SHEEN, DONGWOO: Iterative procedure for estimation of variable coefficients in a hyperbolic system, 9A126
SHEEN, HJ: Recirculation zones of unconfined and confined annular swirling jets, 8A968
SHEH, M: Numerical Implementation and Application of Constitutive Models in the Finite Element Method, AMD-Vol 213/MD-Vol 63 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N2
SHEIKH, MA: Experience in the use of damage mechanics to simulate crack behavior in specimens and structures, 1T796
- Developmenet of the Trefftzian methodology for engineering design analysis, 5A58
SHEIKH-AHMAD, JY: Flow instability in the torsional straining of commercially pure titanium, 5A441
SHEINMAN, I: Damage detection and updating of stiffness and mass matrices using mode data, 7A803
- High-order element for prebuckling and buckling analysis of laminated plane frames, 12A633
SHEKARRIZ, A: Planar ultrasonic imaging of a two-phase mixture, 1T1042
- Quantitative visualization of a submerged pseudoplastic jet using particle image velocimetry, 5A953
SHEKHTMAN, II: Asymptotic solutions for crack closure in an elastic plate under combined extension and bending, 3A709
- Radial cracking with closure, 7A865
SHEKUN, GD: Dynamics of a self-balancing unit in a multi-disk rotor, 6T75
SHELIMANOVA, YV: Jet cooling of ribbed walls of molds for producing corrugated pipes and hoses, 1A1167
SHELLEY, FJ: Physical modeling of hip joint forces in stair climbing, 9A1439
SHELLEY, SJ: Active-control and forced-vibration studies on highway bridge, 1A172
SHELTON, SV: Design and testing of a solid-sorption heat-pump system, 8A1209
SHEN , MENGYU: Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, 3A21
SHEN , SHENGPING: Interface crack in bi-piezothermoelastic media, 9A828
SHEN , WEIPING: High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), 3A61
SHEN , ZHANG: Design object model and design process model of computer aided aircraft conceptual design system, 7A375
SHEN, BO: Sensitivity analysis of eigenproblems for symmetrically-laminated composite plates, 8A136
SHEN, CHAO-LIANG: Uniform approximation of the density function of a string equation using eigenvalues and nodal points and some related inverse nodal problems, 3A131
SHEN, CHENGNENG: Semi-analytic method for hydraulic computation of surge chambers (Chinese), 8A203
SHEN, CHENGWU: Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, 9A444
SHEN, CHI: Cyclic behavior of structural steels - I: Experiments, 3A1319
- Cyclic behavior of structural steels - II: Theory, 3A1320
SHEN, FAN-HAO: Influence of axial deformation on ductility of high-strength reinforced concrete columns under varying triaxial forces, 3A777
SHEN, G: Ligament-yield load of plates and cylinders with an axial semi-elliptical flaw, 1A798
SHEN, GX: Investigation on the properties and structures of starting vortex flow past a backward-facing step by WBIV technique, 12A1109
SHEN, HC: Modeling and fusing uncertain multi-sensory data, 7A447
SHEN, HH: Experimental and numerical studies of shear layers in granular shear cell, 8A528
- Computer simulation of pipe bend erosion in a dilute pneumatic transport of granular materials, 10A1118
SHEN, HSIEH W: Flushing sediment through reservoirs (French), 12A1024
SHEN, HUI-SHEN: Thermal postbuckling analysis of moderately thick plates, 1A637
SHEN, HUI-SHEN: Thermal post-buckling analysis of imperfect laminated plates, 1A660
- Postbuckling analysis of moderately thick rectangular plates on two-parameter elastic foundations, 2A494
- Postbuckling analysis of orthotropic rectangular plates on nonlinear elastic foundations, 2A495
- Postbuckling analysis of composite laminated plates on two-parameter elastic foundations, 3A549
- Postbuckling analysis of imperfect composite laminated plates on nonlinear elastic foundations, 5A534
- Post-buckling analysis of imperfect laminated plates under combined axial and thermal loads, 7A650
- Thermomechanical postbuckling of imperfect moderately thick plates on two-parameter elastic foundations, 8A502
- Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, 11A702
- Postbuckling analysis of cylindrical shells under combined external liquid pressure and axial compression, 11A539
SHEN, HUNG TAO: Frazil evolution in channels, 1A983
- Simulation and analysis of upper Niagara River ice-jam conditions, 1A1440
- Numerical simulation of river ice processes, 1A1438
SHEN, IY: Bending and torsional vibration control of composite beams through intelligent constrained-layer damping treatments, 7A126
- Stability and vibration of a rotating circular plate subjected to stationary in-plane edge loads, 9A143
SHEN, J: Investigation on contact mechanics between soil and metal, 6T822
- Instability of an annular viscous liquid jet, 8A973
SHEN, JH: Nonoscillatory solutions of delay differential equations with impulses, 12T132
SHEN, JIAN: Block finite difference scheme for second-order elliptic problems with discontinuous coefficients, 10A44
SHEN, JIARUI: Heat transfer enhancement in a converging passage with discrete ribs, 8A1200
SHEN, JIE: Error estimates of the projection methods for the Navier-Stokes equations: Second-order schemes, 12A1056
SHEN, KL: Seismic behavior of reinforced concrete frame with added viscoelastic dampers, 1A1397
- Design of energy dissipation devices based on concept of damage control, 6A1278
SHEN, LIANXI: Mechanics of dilatant transformation in one side of bimaterial interface, 10A811
SHEN, M-H HERMAN: New modeling technique for piezoelectrically actuated beams, 1A683
SHEN, MENGYU: Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, 10A36
SHEN, MH: Solutions of thermoelastic crack problems in bonded dissimilar media or half-plane medium, 2A657
SHEN, QINGGEN: Two-control volume model and dynamic characteristics research for labyrinth seal (Chinese), 10A1019
SHEN, S SHAN-PU: Accuracy of the stationary forced Korteweg-de Vries equation as a model equation for flows over a bump, 4A256
- Energy distribution for waves in transcritical flows over a bump, 10A297
SHEN, SHI-MING: Artificial neural network technology as a method to evaluate the failure bending moment of a pipe with a circumferential crack, 10A447
SHEN, TY: Research on reducing erosion by adding ribs on the wall in particulate two-phase flows, 11A649
SHEN, WEI-CHANG: Tribological characteristics of JS material under lubrication of oil, 12A898
SHEN, WEIPENG: High precision direct integration scheme for analyzing structural nonstationary random responses (Chinese), 8A760
SHEN, WEIPING: Parallel computing for the high precision direct integration method, 4A86
- High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, 8A759
SHEN, WY: Fatigue of fillet welded A515 steel, 9A759
SHEN, X: Axial and interfacial shear stresses due to thermal mismatch in hybrid composite sheets, 3A492
- Filtering for linear stochastic systems with small measurement noise, 5A309
SHEN, XINKANG: Iterative computation method for nonlinear forced vibration equation on helicopter main rotor load, 6A155
SHEN, Y: Simulation of fluid mixing using least-squares FEs and particle tracing, 1A1009
- Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363

SHEN, Y-L: Steady-state creep of metal-ceramic multilayered materials, 9A499
SHEN, Y-P: Conservation laws and path-independent integrals with an application for linear electro-magneto-elastic media, 5A540
- Interaction between an interface and cracks, 5A649
- Issue of the interaction between multicracks near the interface, 5A657
- Damage-monitoring in composite laminates by piezoelectric films, 9A562
SHEN, YA-PENG: Finite element approach of vibration control using self-sensing piezoelectric actuators, 12A138
SHEN, YAPENG: Faults in the stress analysis of power-hardening materials with pseudo-stress function method, 12T478
SHEN, YB: Real-time microholography for in-situ concentration measurements in the vicinity of growing dendrites, 8T1149
SHEN, YINQIU: Study of brine driven absorbing evaporation system (Chinese), 8A1378
SHEN, YONGZHANG: Studies on aircraft total energy flight control system: Nonlinear system integration and simulation, 6A321
SHEN, YU-CHANG: Deformation control of laminated composite plates containing piezoelectric layers under thermal loading, 1A554
SHEN, YUN-WEN: Pseudo element method for solving matrix with elementary operation and its application, 1A905
SHEN, YUNWEN: Lower order critical operating speeds indentification for flexible linkage mechanisms (Chinese), 10A84
- Finite dynamic element analysis for high-speed flexible linkage mechanisms, 12A967
SHENG, CHUNHUA: Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, 4A979
SHENG, DAICHAO: Uncoupling of coupled flows in soil: A FEM, 1A700
SHENG, G: Extrapolated Galerkin time FEs, 10A29
SHENG, J: Uniaxial tensile respone of microfiber reinforced cement composites, 4A489
SHENG, LH: Refined model for base-isolated bridges with bilinear hysteretic bearings, 11A1405
SHENG, P: Plane stress model for fracture of ceramics during laser cutting, 1T741
- Analytical approach for determining the environmental impact of machining processes, 3A615
- Model-based path planning for laser cutting of curved trajectories, 10A721
- Analysis of laser evaporative and fusion cutting, 11A591
SHENG, SQ: New process for releasing micromechanical structures in surface micromachining, 10T468
SHENOI, RA: Fatigue failure mechanisms in fiber-reinforced plastic laminated tee joints, 1A756
- Fatigue behavior of polymer composite sandwich beams, 6A605
- Examination of key aspects defining the performance characteristics of out-of-plane joints in FRP marine structures, 6A447
- Strength and stiffness of fiber-reinforced plastic plates, 11A518
SHENOY, AV: Modeling the flow of power law fluids in a packed bed using a volume-averaged equation of motion, 11A1322
SHEPARD, NT: Postural control in young and elderly adults when stance is perturbed: Dynamics, 6A1328
SHEPARD, SB: Design and development of the WR-21 intercooled recuperated (ICR) marine gas turbine, 5A1032
SHEPELEV, NV: Combined heat transfer in disperse systems with particles undergoing a metal-insulator transition, 5A1173
SHEPHARD, MS: Computer-aided multiscale modeling tools for composite materials and structures, 4A531
- Automatic construction of 3D models in multiple scale analysis, 6A47
- Modeling and the adaptive solution of reactive vapor infiltration problems, 6A589
SHEPHERD, IG: Heat release and induced strain in premixed flames, 1A1316
SHEPHERD, JE: Adiabatic evaporation waves, 3A1089
SHEPHERD, R: Analysis of concrete cable-stayed bridges for creep, shrinkage, and relaxation effects, 3A801
- Analytical approach to coupled heat and moisture transport in soil, 4A1315
SHEPHERD, TG: Nonlinear symmetric stability of planetary atmospheres, 1A1408
SHER, A: Fluid conductance of cancellous bone graft as a predictor for graft-host interface healing, 6A1314
SHER, E: From spark ignition to flame initiation, 5A1211
SHER, HF: Predictions of deflection and first-ply failure load of thin laminated composite plates via the FE approach, 4A509
SHERBOURNE, AN: Plate-stiffener assemblies under nonuniform edge compression, 3A539
- Elastic stability of partially-restrained plates under compression and in-plane bending, 5A529
SHEREEN, R: Study of print release process in solder paste printing, 3A867
SHERIDAN, J: Three-dimensional vortex structures in a cylinder wake, 10A1156
SHERIDAN, TB: Interference-drive of a 3 dof joint based on the cable-controlled mechanism (Japanese), 7A1021
SHERIEF, HH: Generalized 2D thermoelastic problems in spherical regions under axisymmetric distributions, 7A1279
SHERIF, HA: Determination of ball and roller compliances using a vibration measuring technique, 5A392
SHERIF, SA: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
SHERIF, YS: Efficient algorithm for testing the quality of the output of random number generators, 1A71
SHERMAN, CH: Analysis of harmonic distortion in electroacoustic transducers, 1A192
SHERMAN, D: Effect of geometry on the properties of a dense alumina-carbon and epoxy laminate, 1A812
- Mechanical behavior of an alumina carbon-epoxy laminate, 4A733
SHERMAN, PJ: Improved periodic spectral analysis with application to diesel vibration data, 5A292
SHERWIN, K: Thermofluids, 11R41
SHERWIN, SJ: New triangular and tetrahedral basis for high-order (hp) FEMs, 4A36
SHERWOOD, DV: Maintenance of a commercial fusion power station and its implications for safety, 11T1474
SHERWOOD, JA: Numerical Implementation and Application of Constitutive Models in the Finite Element Method, AMD-Vol 213/MD-Vol 63 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N2
- Study of the pressure distribution on an aircraft tire-wheel interface, 2A794
- Optimization of the manufacturing process of a titanium aluminide metal matrix composite using a viscoplastic constitutive theory, 10A506
SHERWOOD, JD: Squeeze flow of a power-law viscoplastic solid, 8A424
SHESHENIN, SV: Semi-implicit method for solving problems of elasticity theory for thin axially-symmetric bodies, 10A514
SHESTERIKOV, SA: Stress-strain analysis near the crack tip using linear-fractional creep law, 3A679
- Crack-tip asymptotic character of anti-plane stress and strain rate for linear fractional constitutive relations, 8A625
SHEU, J-J: Exact solution for a simplified model of the heave and pitch motions of a ship hull due to a moving load and a comparison with some experimental results, 10A217
SHEU, JAU-TSANN: Beam length and dynamic stiffness, 9A181
SHEU, JF: Time-delay effect and its solution for optimal output feedback control of structures, 12A417
SHEU, JIANN-HWA: Improvement of explicit multistage schemes for central spatial discretization, 6T35
SHEU, S-S: Linear stability analysis of thermocapillary convection in liquid bridges using a mixed finite difference-spectral method, 1A1197
SHEU, SM: Flexibility of TLD to high-rise building by simple experiment and comparison, 2A87
SHEU, TONY WH: Comparison study on multivariant and univariant FEs for 3D incompressible viscous flows, 2A11
- Monotone multidimensional upwind FEM for advection-diffusion problems, 10A1275
SHEU, TS: Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, 12A1214
SHEU, TWH: Segrogated solution algorithm for incompressible flows in general co-ordinates, 9A1092
- Petrov-Galerkin formulation for incompressible flow at high Reynolds number, 9T42
SHEU, WJ: Gas-phase ignition of accelerated boundary-layer flows on strongly catalytic surfaces, 3A1204
- Thermal ignition in buoyancy-driven boundary layer flows along inclined hot plates, 10T1247
SHEU, YEONG-MAW: Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, 7A582
SHEU, YOUNGKWANG: Static analyses of beams and plates by spline collocation method, 10A603
SHEVCHENKO, AM: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
SHEVCHENKO, I: Hyperboloidal precession of a dynamically symmetric satellite construction of normal forms of the Hamiltonian, 7A301
SHEVCHENKO, SN: Study of the stressed state of hollow orthotropic cylinders of nonround cross-section under the effect of local load (Russian), 7A623
SHEVCHENKO, VV: Methods for developing synthetic sutures for surgery, 6A1354
SHEVCHENKO, YN: Thermoelastoplastic state of discretely nonhomogeneous bodies of revolution with regard for nonlinearity of the shift characteristic of orthotropic of material (Russian), 7A513
Applicability of the ratios of the theories of elastoplastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, 9T522
SHEVTSHENKO, OV: Composite suspended shells on cyclical plan, 10A891
SHEWBRIDGE, SE: Yield acceleration of lined landfills, 7A709
SHI , CHANGCHUN: Numerical study of vortex reconnection for two anti-parallel vortex tubes, 3A895
SHI , DUFANG: Limited-view optical tomography technique and its application to temperature field measurement in flow of hot air, 3A1016
SHI , ZHIFEI: Stress-strain field near the notch tip of a rubber sheet, 3A428
SHI, F: Adaptive mesh refinement of the BEM for potential problems by using mesh sensitivities as error indicators, 5A42
SHI, FENG: Renormalization group based k-ε turbulence model for flows in a duct with strong curvature, 5A972
SHI, FENGYAN: Variable boundary model of storm surge flooding in generalized curvilinear grids, 2A1257
SHI, GUANGYAN: New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), 8A286
SHI, GUANGYU: Assumed stress C^0 quadrilateral-triangular plate elements by interrelated edge displacements, 9A606
SHI, HAN-MIN: Model for non-free-cutting, 1A725
SHI, HAN-SHENG: Optimal theory for an expansion of flow quantities to capture the flow structures, 5A971
SHI, J: Computing critical points and secondary paths in nonlinear structural stability analysis by the FEM, 3A560
- Combining arc-length control and line searches in path following, 3A26
- New approach for linear stability analysis, 6A986
- Energy conserving co-rotational procedure for nonlinear dynamics with FEs, 7A35
- Simplified lower-bound limit analysis of pressurized cylinder-cylinder intersections using generalized yield criteria, 9A521
SHI, J-Y: Effects of initial deformation in thin tubes on wave reflection and transmission at mechanical mismatch, 6A197
SHI, JINGYU: Initially deformed dissimilar elastic tubes containing fluid flow, 5A226
SHI, JINYUAN: Study on fault diagnosis method based on reliability theory (Chinese), 6A355
SHI, JUN: Nonlinear response of a family of simple 3D trusses, 9A159
SHI, LING: New method to determine the R-curve of ceramics fracture grating method, 9A856
SHI, RONGCHANG: Stability for the equilibrium state of Chaplygin's systems, 4A113
SHI, SX: Numerical near-wall corrections of single hot-wire measurements, 6A1106
SHI, TAIHE: Study of swirl velocity decaying by cementing turbulators and its application (Chinese), 11A959
SHI, W TAO: Deformation and position of acoustically levitated liquid drops, 9A1128
SHI, XIYAN: Lagrangian simulation of a thin non-premixed flame in the field of an asymmetric layer, 12A1323
SHI, Y: Finite element time domain modal formulation for large amplitude free vibrations of beams and plates, 12A148
SHI, YAOWU: How to obtain a complete dependence curve of impact toughness or fracture toughness vs temperature on nuclear pressure vessel steels by using only one Charpy-size specimen, 1A840
SHI, YIJIAN: Cone-derived waverider flowfield simulation including turbulence and off-design conditions, 10A1093
SHI, YONGJI: Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, 6A612
SHI, YU-ME: Optimum disposition of assembled piping system for parallel operation of multiple compressors, 12A1116
SHI, YUCHENG: Use of the method of moments with finite difference operator in acoustics, 10A386
SHI, YW: Estimates of local tensile strength of welded joints, 1A499
- Influence of crack depth and strength matching on deformation and plastic zone for welded joint specimen, 8A631
SHI, Z: Unlubricated rolling-sliding wear mechanisms of complex aluminum bronze against steel, 12A915
SHI, ZD: Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, 12A1112
SHI, ZE-RONG: Quantitative performance robustness linear quadratic optimal system design, 11A285
SHI, ZHAN: Time series analysis for load identification by using impulse response function (Chinese), 4A99
SHI, ZHIJIANG: Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, 6A612
SHIAU, LE-CHUNG: Application of the FEM to postbuckling analysis of laminated plates, 4A13
- Finite-element method for analysis of a nonlinear system under stochastic parametric and external excitation, 10A128
SHIAU, N-M: Sound transmission through multi-panel structures lined with elastic porous materials, 10A350
SHIAU, WEN-CHANG: Effect of concrete strengths on dynamic response of framed shearwalls, 2A750
SHIBA, T: Optimal sizing of a heat pump-thermal storage system based on the linear programming method, 3A1164
SHIBANO, J: Polychromatic x-ray method for residual-stress measurements in a subsurface layer, 10A857
SHIBASAKI, M: Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets, 8A965
SHIBATA, F: Systematic projection operator formalism in nonequilibrium statistical mechanics, 10A1243
SHIBATA, H: Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, 9A760
SHIBATA, K: Vibration analysis of rubber vibration isolators of vehicle using the restoring force model of power function type: Analysis of nonlinear vibration using frequency characteristics determined by the hysteresis loop, 6A164
SHIBATA, M: Fast collision-free path planning for translating mobiler in 3D space (Japanese), 5A377
SHIBATA, T: Ductile-regime turning of quartz crystal, 1A722
- Maskless patterning of gold electrical contacts by laser plating in a flowing solution, 1A437
- Crystallographic characterization of surface damage in diamond-turned single-crystal copper (Japanese), 5A569
- Study on countermeasure for liquefaction of reclaimed ground by coal fly ash (Japanese), 7A698
- Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743
SHIBATA, Y: Global in time existence of small solutions of nonlinear thermoviscoelastic equations, 1A1291
- Back analysis of viscoelastic rock masses with circular or elliptical tunnel (Japanese), 3A594
SHIBUYA, M: Inspection and repair strategy in automated assembly systems (Japanese), 1A444
SHIBUYA, S: Pre-failure Deformation of Geomaterials - Proc of Int Symp, Sapporo, Japan, Sept 1994, 12N29
SHIBUYA, T: Boundary element analysis of thermoelastic contact problems, 4A1237
- Torsion of compound cylinder with an external annular crack, 7A497
SHIDA, K: Maskless patterning of gold electrical contacts by laser plating in a flowing solution, 1A437
SHIDLOVSKY, VP: Raleigh's problem for compressible viscous flow, 3A918
SHIE, JS: Failure analysis of woven-fabric composites with molded-in holes, 6A665
SHIEH, JENG-SHIEN: Theoretical investigation of transient droplet combustion by considering flame radiation, 1A1330
SHIEH, SHEU-JANE: Application scanning acoustic microscopy in a bone remodeling study, 5A1395
SHIEH, W-B: Multiobjective optimization of a leg mechanism with various spring configurations for force reduction, 12A974
SHIELD, RT: Load-deformation relations in second-order elasticity, 1A455
SHIFFLETT, H: Multiple precursors to the Landers earthquake, 11A1364
SHIFRIN, EI: Normally incident transverse wave scattering by a plane crack, 6A186
SHIGECHI, T: Fully-developed laminar fluid flow and heat transfer in an eccentric annulus with an axially moving core, 8T1071
SHIGEMATSU, T: Development of an endless multi-wire diamond saw (Japanese), 1T441
- Study of proposed design equation for the shear strength of R-C beams subjected to axial tension (Japanese), 2A764
- Vibration analysis of curved panels with variable thickness, 11A116
SHIGLEY, JE: Standard Handbook of Machine Design, Second Edition, 12N34
- Theory of Machines and Mechanisms, Second Edition, 2R10
SHIH, AJ: Finite element analysis of orthogonal metal cutting mechanics, 4A636
- Finite element analysis of the rake angle effects in orthogonal metal cutting, 4A14
SHIH, AT: Thermocapillary flow effects on convective droplet evaporation, 4A1189
SHIH, C FONG: Ductile crack growth - III: Transition to cleavage fracture incorporating statistics, 8A571
SHIH, CF: Fracture toughness of niobium-alumina interfaces: An analysis based on a micromechanical model, 4A757

SHIH, CHIANG: Trailing-edge jet control of leading-edge vortices of a delta wing, 12A1171
SHIH, CJ: Mixed fuzzy-probabilistic programming approach for multiobjective engineering optimization with random variables, 8A715
- Weighting objectives strategy in multicriterion fuzzy mechanical and structural optimization, 8A729
SHIH, IH-CHENG: Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, 9A235
SHIH, S-H: Evaluation of boundary conditions for computational aeroacoustics, 4A327
SHIH, SH: Shock-wave and boundary-layer interactions with bleed - Part I: Effect of slot angle, 4A1028
- Shock-wave and boundary-layer interactions with bleed - Part 2: Effect of slot location, 4A1029
SHIH, TI-P: Shock-wave and boundary-layer interactions with bleed through rows of holes, 8A944
SHIH, TIEN-MO: Literature survey on numerical heat transfer: 1992-1993, 10A1273
SHIH, TSAN-HSING: New Reynolds stress algebraic equation model, 1A1087
SHIH, W-Y: Elastic buckling of a circular disk due to internal membrane forces, 5T528
SHIHATA, SA: Prestressed high-strength concrete beams under torsion, 1A894
SHIKANO, Y: Numerical analysis of the flow field through a turbine stage with bucket tip clearance, 4A1115
SHIKAZONO, N: Second-moment closure for turbulent scalar transport at various Prandtl numbers, 12A1156
SHIKH, IA: Nonstationary convection near a vertical surface with periodic change in heat flux, 6A1079
- Stable vortex structures in axisymmetric convective torch during oscillating combustion, 7A1340
SHIKULA, EN: Nonlinear deformation of layered-fibrous composites (Russian), 7A569
- Effect of porosity on nonlinear deformation of layered fibrous materials, 9A540
SHILLER, Z: Trajectory preshaping for of high-speed articulated systems, 5A330
- Time-energy optimal control of articulated systems with geometric path constraints, 9A431
- Generalized sufficient condition for time-optimal control, 12A352
SHILLOR, M: Dynamic vibrations of an elastic beam in frictional contact with a rigid obstacle, 11A106
SHILYAEV, MI: Hydrodynamics of a contact device with a spiral ribbon, 2T955
SHIM, JD: Numerical analysis of molten metal shape in cold crucibles by 3D FEM, 8A1170
SHIM, FY: Shape optimization method based on implicit differentiation and node removal techniques, 8A724
SHIM, VPW: Transient stresses generated by low velocity impact on orthotropic laminated cylindrical shells, 1A572
- Modeling deformation and damage characteristics of woven fabric under small projectile impact, 1A218
- Empirical strain rate-dependent constitutive relationship for glass-fiber reinforced epoxy and pure epoxy, 7A576
SHIMA, A: Dynamics of laser-induced bubble in pressurized liquid nitrogen, 11T935
SHIMA, T: Recursive formulations of a flexible multibody system by the method of weighted residual, 12A446
SHIMADA, A: Servo system design considering low-stiffness of robot (Japanese), 3A414
SHIMADA, M: Numerical simulation for shaking table model tests of caisson revetment by distinct element method (Japanese), 5T1332
SHIMADA, S: Molecular dynamics analysis of nanometric cutting process, 9A732
- Cutting mechanism of superfinishing by fine CBN stone (Japanese), 12A694
SHIMADA, T: Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
SHIMAKAWA, T: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
SHIMAMOTO , A: Fatigue crack-tip deformation, crack growth and life prediction in polycarbonate, 2A566
SHIMAMURA, Y: Fractal property of matrix cracking in GFRP cross-ply laminates, 3A707
SHIMAZAKI, Y: Study on precision grinding of axisymmetrical form: Mechanism of form generation (Japanese), 11A605
SHIMAZU, S: Study on vibrational damping of microcantilevers (Japanese), 12A140
SHIMIZU, A: Study on data processing of a teaching robot with redundant dof (Japanese), 7A462
SHIMIZU, K: Review of transportation planning of the elderly and disabled, in Japan (Japanese), 1A1469
- Study on driving ability of elderly drivers and their evaluation of traffic environment (Japanese), 1A1471
- Study on interaction between turbulence generated by uniformly falling particles and oscillating grid turbulence, 3A1347
SHIMIZU, M: Three-dimensional coupled thermal stresses in infinite plate subjected to a moving heat source, 11A1248
SHIMIZU, N: Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
- Experimental study on seismic responses of piping systems with friction - Part 1: Large-scale shaking table vibration test, 5A1320
SHIMIZU, S: Limiting absorption principle for elastic wave propagation problems in perturbed stratified media R^3, 7A226
- Static and dynamic stiffness of 1/10 tapered joints for automatic changing, 9A227
SHIMIZU, T: Comparison of positioning resolution of feed drive devices for ultra-precision machine tools (Japanese), 9A704
SHIMIZU, Y: Longitudinal profile of bed elevation and grain size in alluvial rivers (Japanese), 3A886
- Moving characteristics of shield tunneling machine (Japanese), 10A682
SHIMO, M: Heterogeneous permeability profile and localized flow in fractured rocks (Japanese), 1A1357
SHIMODA, K: Effects of surface treatment on the bending-fatigue strength of carburized spur gears, 9A755
SHIMOGA, KB: Robot grasp synthesis algorithms: A survey, 11A366
SHIMOKOHBE, A: Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), 5A832
- Achieving Ultra-Precision by mechatronics: Active air Journal bearing, 7A419
- Displacement sensor and ultra-precision positioning (Japanese), 7T412
SHIMOMURA, T: Drying shrinkage model of concrete based on micromechanism in concrete (Japanese), 2A410
SHIMONY, U: Discrete model for tubular acoustic systems with varying cross section - The direct and inverse problems - Part 1: Theory, 4A317
- Discrete model for tubular acoustic systems with varying cross-section - The direct and inverse problems - Part 2: Experiments, 4A318
- Losses in tubular acoustic systems: Theory and experiment in the sampled time and frequency domains, 9A393
SHIMOYAMADA, K: Torsional vibration damping of diesel engine with rubber damper pulley, 6A170
SHIMOZATO, T: Buckling modes of plate-girders curved in plan, 1A909
SHIMSHONI , Y: Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, 6A1287
SHIN, CHANGSOO: Sponge boundary condition for frequency-domain modeling, 3A1295
- Optimal 9-point, finite-difference, frequency-space, 2D scalar wave extrapolator, 8A1332
SHIN, EUI-SUP: Finite element analysis of laminated composites using an unmixing-mixing viscoplastic model, 8T440
SHIN, H-W: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
SHIN, HEUNGCHUL: Development of precision feed mechanism by applying principle of walking drive - 2nd report: Development of feed velocity control method and ultraprecision positioning system (Japanese), 2A337
SHIN, HO-CHEOL: Hybrid actuator scheme for robust position control of a flexible single-link manipulator, 11A391
SHIN, HYUNG-SEOP: Effect of oxide layers on behaviors of particle impact damage of silicon carbide (Japanese), 7A258
SHIN, JAIWON: Characteristics of surface roughness associated with leading-edge ice accretion, 9A1229
SHIN, JUNG-HO: Metallographic study on rolling contact fatigue of 0.44%C - 1.71% Mn induction-hardened bearing steels, 10A981
SHIN, YC: Surface roughness measurement by ultrasonic sensing for in-process monitoring, 5A684
SHIN, YS: Structures Under Extreme Loading Conditions - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N16
- Transient Thermal Hydraulics, Heat Transfer, and Coupled Vessel and Piping Responses - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N17
- Damage response of submerged imperfect cylindrical structures to underwater explosion, 12A238
SHIN, YUNG C: In-process control of surface roughness due to tool wear using a new ultrasonic system, 5A357
SHINADA, S: System for inspecting defects on the inner wall of high-aspect-ratio through-holes in printed circuit boards, 7A899
- Automated inspection of printed circuit board patterns referenced to CAD data, 9A872
SHINAGAWA, M: Sonoelastic determination of human skeletal muscle elasticity, 1A1447
SHINAR, J: Mixed-strategy guidance in future ship defense, 8A317
SHINBROT, T: Control of transport in a chaotic lattice, 11A85
SHINDO, Y: Stability of liquid CO_2 in seawater at high pressures, 3A957
SHING, PB: Behavior of RC bridge decks with flexible girders, 6A767
- Experimental evaluation of masonry-infilled RC frames, 8A746
SHING, PUI-SHUM B: Evaluation of some implicit time-stepping algorithms for pseudodynamic tests, 9A1397
SHINKE, T: Improved practical formulas for estimation of cable tension by vibration method (Japanese), 5T497
SHINKIN, VN: Integrable cases of the general spatial three-body problem at third-order resonance, 7A298
SHINMURA , T: Study of a cylindrical magnetic abrasive finishing behaviors of magnetic abrasives and generating mechanism finishing pressure (Japanese), 9T737
SHINMURA, T: Study on a new internal finishing process by the application of magnetic abrasive machining: Discussion of the cylindricity (Japanese), 1A740
- Study on a new internal finishing process by the application of magnetic abrasive machining: Internal finishing of stainless steel tube and clean gas bomb, 6A581
- New internal finishing process by applying magnetic abrasive finishing through the use of the pole rotation system: Processing principle with a few finishing characteristics, 9T733
SHINODA, T: Critical strain of non-homogeneous rock masses (Japanese), 10A691
SHINODA, Y: Outdoor robots system for autonomous mobile all-purpose platform, 11T376
SHINOHARA, H: Thermal stress and strength reliability of heater for cathode ray tube (Japanese), 7A1284
SHINOHARA, M: Influence of water on energy absorption of filament winding ring under lateral impact loading (Japanese), 12A548
SHINOMIYA, K: Cyclic strengths of clay and sand by strain rate controlled cyclic triaxial test (Japanese), 4A612
SHINOZUKA, J: Analytical prediction of cutting performances of grooved rake face tools (Japanese), 3A616
SHINOZUKA, M: Conditional simulation of non-Gaussian random fields for earthquake monitoring systems, 3A1335
- Simulation of multi-dimensional Gaussian stochastic fields by spectral representation, 3A62
SHINSHI, T: Precision magnetic bearing (1st Report): Non-contact positioning using magnetic force (Japanese), 5A832
SHIOJI, M: Formation of turbulent eddies in jet diffusion flames, 11T1274
SHIONO, I: Cross effect in aluminium tubes subjected to torsion and tension, 7A525
SHIOTA, H: Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, 9A760
SHIOTANI, T: Fundamental study on prediction of slope failure by acoustic emission (Japanese), 4T617
SHIOTSUKI, T: Analysis of dispersion of blasting vibrations and assessment of ground vibrations by means of the simulation based on the overlapping hole number (Japanese), 10A680
SHIOYA, M: Estimation of fiber and interfacial shear strength by using a single-fiber composite, 3A496
SHIOYA, T: Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, 9A531
SHIOZAKI, T: Arrangement of stud shear connectors to reduce fatigue cracking at the top of vertical stiffeners (Japanese), 5A688
- Fatigue strength of drilled holes under membrane and plate-bending stresses (Japanese), 11A641
SHIOZAWA, K: Fatigue-crack-growth-based analysis of two-step corrosion fatigue tests, 5A609
SHIPILOV, A: Relieved control in cyclic systems, 2A283
SHIPPEN, J: Note on tip relief and backlash allowances in non-metallic gears, 7A1010
SHIPPY, DJ: BEM treatment of body forces in plane orthotropic elastostatics, 2A380
SHIPWAY, PH: Role of particle properties in the erosion of brittle materials, 11A650
SHIRAHAMA, Y: Experiments on response of impinging-jet edge tone to edge misalignment and spanwise coherence of the jet, 5A260
SHIRAHATTI, US: Sound-structure interaction analysis of composite panels using coupled boundary and FEMs, 1A331
- Use of the method of moments with finite difference operator in acoustics, 10A386
SHIRAI, A: Flexural behavior and durability of ferrocement with polymer-modified paste coatings on reinforcements, 8A750
SHIRAI, Y: Selective refinement of 3D scene description by attentive observation for mobile robot, 11T377
SHIRAISHI, H: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
SHIRAISHI, M: Visual study on flow behavior in an inclined two-phase closed thermosyphon, 1A1286
- Pneumatic assist device for gait restoration, 9A1464
SHIRAKASHI, T: Analytical prediction of cutting performances of grooved rake face tools (Japanese), 3A616
- Change of mechanical characteristics in machined layer with machining sequence (Japanese), 4T634
- Energy flowing rate into workpiece surface grinding based on 3D temperature analysis - 1st report: Discussion on temperature distribution in workpiece measured by hole method (Japanese), 7A751
- In-process monitoring of tool damage by active method: Behavior of damping ratio with tool wear development (Japanese), 7A805
- Recent progress of computer aided simulation of chip flow and tool damage in metal machining, 11A599
SHIRASE, K: Cutting force and dimensional surface error generation in peripheral milling with variable pitch helical end mills, 8A553
- Articulated robot application in end milling of sculptured surface, 12A462
SHIRAZI-ADL, A: Stabilizing role of moments and pelvic rotation on the human spine in compression, 9A1437
SHIRES, GL: International Encyclopedia of Heat and Mass Transfer, 6N35
SHIRIZLY, A: Tube expansion by internal fluid pressure with additional compressive stress, 12A676
SHIROKOVA, E: Exact solution of the plane elasticity second basic problem for the symmetric airfoil cracks, 2T357
SHIROKOVA, YA: Solution of problems of the theory of elasticity for a plane with a doubly symmetric two-cusp cut, 4A442
SHIROMA, Y: Theoretical discussion on swept-volumes of moving solid objects (japanese), 3A421
SHIROSHITA, S: Influence of water on mechanical properties and fracture mechanism of FRP-aramid honeycomb core sandwich material (Japanese), 4A487
SHIRVANI, H: Analysis and computer simulation of the electrochemical machining process: A stepped moving tool eroding a plane surface, 10A719
SHISHKIN, S: Output feedback stabilization of Euler-Lagrange systems with nondissipative forces, 12T376
SHISHKOV, YV: Burnout heat transfer in steam-water mixtures in cylindrical and annular porous channels, 1A1248
SHISHOV, VI: Effect of refraction scintillations on the response of an interferometer, 3A729
SHITIKOV, AV: Variational principle for constructing the equations of elastoplasticity for finite deformations, 1A498
SHITIKOVA, MV: Analysis of nonlinear free vibrations of suspension bridges, 3A153
- Impact of a rigid sphere with an elastic layer of finite thickness, 3A437
- Effect of viscosity on vibrational processes in a combined suspension system, 3A154
- Methods for solving 1D boundary-value problems in a nonlinear elastic medium, 8A168
SHIUE, RH: Carbide tool wear mechanism in turning of Inconel 718 superalloy, 11A807
SHIVAKUMAR, KN: Through-the-thickness tension strength of 3D braided composites, 8A661
- Analysis of local delaminations caused by angle ply matrix cracks, 10A788
SHIVASHANKAR, S: Bonding residual stresses in high-temperature composites, 8A851
SHIVPURI, R: Development and validation of a FE model for multiple-pass radial forging, 7A17
- Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
- Optimal design of process variables in multi-pass wire drawing by genetic algorithms, 11A581
SHKODINA, LN: Complete spectrum of normal P-SV-waves in the bilayered transversal-isotropic waveguide, 9A263
SHKUTIN, LI: Spatial bending of a system of annular elements of the radial chain of a wave gearing, 12A959
SHLAPKOVA, YP: Heat exchange between a surface and an oscillating layer of a moist material, 1A1365
SHLITSA, RP: Ultimate stresses in spatially reinforced composites of different structural geometry and component elastic properties (Russian), 7A574
SHMATKOVA, AA: Stress-strain state of a three-layered cantilever panel with honeycomb filler, 3A502
SHNAID, I: Pressure perturbations method for analysis of transient compressible gas flow around wells in porous media, 1T1356
SHNEIDERMAN, DN: Solving 3D elastic problems in determining residual stresses in anisotropic materials, 7A510
SHOEMAKER, SD: Human wrist motors: Biomechanical design and application to tendon transfers, 6A1325
SHOHAM, MOSHE: Liapunov stability of force-controlled grasps with a multi-fingered hand, 8A353
SHOJI, G: Weather influenced on constructability of tall structures (Japanese), 10A938

SHOKRIEH, MM: Testing of in-plane shear properties under fatigue loading, 2A456
- Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate, 9A546
- Effects of material nonlinearity on the 3D stress state of pin-loaded composite laminates, 11A484
SHONAIKE, GO: Experimental study of impregnation conditions on glass fiber reinforced thermoplastic polyester elastomer composites, 7A559
- Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
SHOOK, CA: Prediction of vertical liquid-solid pipe flow using measured concentration distribution, 3A930
SHOOK, RM: Spacecraft autonomous operations experiment performed during the Clementine lunar mission, 5A754
SHOPA, VM: Nonideal contact in the composite shell construction with deformable filler (Russian), 7A581
SHORR, BF: Analysis of wave propagation in elastic-plastic rods of a variable cross section using direct mathematical modeling, 3A179
SHORSHI, G: Satellite autonomous navigation based on magnetic field measurements, 1T402
SHORT, DJ: Role of Ekman pumping in confined, electromagnetically-driven flows, 4A1097
SHORT, SR: Crack-detection device for brittle-matrix composite materials, 5T488
SHORTLAND, AP: Novel video technique for visualizing flow structures in cardiovascular models, 6A1359
- Formation and travel of vortices in model ventricles: Application to the design of skeletal muscle ventricles, 8A1434
SHORTLE, JF: Predicting dynamic imbalance in rotors, 9A233
SHOU, G: Spectral-based peak-shear-strength criterion for rock joints, 3A593
SHOUCRI, RM: Elliptical orbit with variable angular momentum, 3T230
SHOUGEN, SONG: Velocity inversion for acoustic waves with wavelet operator, 4A313
SHOUKRI, M: Gas-Liquid Flows - 1995 ASME/JSME Fluids Eng Conf, 2N38
- Bubble behavior and mean diameter in subcooled flow boiling, 8A1130
- Effect of branch orientation on annular two-phase flow in T-junctions, 9A1125
SHOUKRY, SN: Radar signal interpretation using neural network for defect detection in concrete, 8A344
SHOUNAKA, T: Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), 11A642
SHOUP, TE: Determining screw axes using holographic interferograms, 6A113
SHOURESHI, R: Fuzzy driver on the handling track, 12A406
SHOUSE, DT: Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology combustor, 5A1240
SHOWKATI, H: Influence of primary boundary conditions on the buckling of shallow cylindrical shells, 6A500
SHOYA, M: Properties of microcracks formed on surface of concrete at steam curing period (Japanese), 2T601
SHOZU, M: Measurement of stress intensity factor under mixed-mode loading by the method of caustics (Japanese), 7A815
SHPACK, VA: Complete spectrum of normal P-SV-waves in the bilayered transversal-isotropic waveguide, 9A263
SHPAKOVA, SG: Oscillations of stochastically laminar material in longitudinal direction, 7A123
SHREIBER, I: Formation of shock waves in gas-liquid foams, 3A931
SHRINIVASA, U: Hexahedral elements using PN functions: Applications to beams, 11A505
- Plate bending with hexahedral PN elements, 12A592
SHRIRA, VI: Two approaches to the problem of instability of short-crested water waves, 4A268
- Manifestations of bottom topography on the ocean surface: The physical mechanism for large scales, 8A1357
SHRIVE, NG: Brittle fracture in compression: Mechanisms, models, and criteria, 4A696
SHROFF, SG: Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance, 10A1477
SHRUBOK, A: Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, 12A1229
SHTATNOV, JA: Investigation of combined scheme of designing air cushion, 8A1022
SHTEINBERG, AS: Macrokinetics of SHS infiltration, 5A1234
SHTERN, V: Bifurcation of swirl in liquid cones, 4A117
- Hysteresis in swirling jets, 8A962
SHTESSEL, YB: Decentralized sliding mode control in three-axis intertial platforms, 1A377
SHTIVELMAN, V: Kinematic inversion of first arrivals of refracted waves: A combined approach, 8A1331
SHU, C: Generalized differential and integral quadrature and their application to solve boundary layer equations, 3A946
- Efficient approach for free vibration analysis of conical shells, 12A172
SHU, CHANG: Dynamic motion planning using a distributed representation, 5A376
SHU, CHI-WANG: Gibbs phenomenon V: Recovering exponential accuracy from collocation point values of a piecewise analytic function, 3A54
- Note on the accuracy of spectral method applied to nonlinear conservation laws, 4A73
- Gibb's phenomenon - III: Recovering exponential accuracy in a sub-interval from a spectral partial sum of a piecewise analytic function, 7A64
SHU, HUANG: State-space approach to discrete-time H_2-optimal control with a causality constraint, 2T267
SHU, JAW-SHI: Finite element analysis and optimization of springback reduction: The "double-bend" technique, 7A731
SHU, JIAN-JUN: Accurate numerical method for systems of differentio-integral equations associated with multiphase flow, 1A1041
- Mixed-convection laminar film condensation on a semi-infinite vertical plate, 4A1159
SHU, JY: Fracture toughness of niobium-alumina interfaces: An analysis based on a micromechanical model, 4A757
- Microbuckle initiation in fiber composites: A FE study, 4A478
SHU, LI: Efficient method for elastic-plastic analysis of destructive structures, 9A512
SHU, XIAO-PING: Improved simple higher-order theory for laminated composite shells, 12A598
SHUAIB, I: Forces generated in guide-wires when drilling human bone, 3T1413
SHUE, SHYH-PYNG: Optimal feedback control of a nonlinear system: Wing rock examples, 6A289
- Prescribed pole placement with optimal weight selection for single-input controllable systems, 6T303
SHUEH, SB: Role of head parameters on head-disc interface, 2A808
SHUGAEV, VA: Mechanism of structure formation during combustion synthesis of titanium silicides, 7A1333
SHUI, XIAOPING: Piezoresistive carbon filament polymer-matrix composite strain sensor, 11T350
SHUJA, SZ: Fluid flow and heat transfer characteristics in axisymmetric annular diffusers, 8A956
SHUKLA, A: Fiber-optic microphone based on a combination of Fabry-Perot interferometry and intensity modulation, 1A360
- Combined experimental and numerical scheme for the determination of contact loads between cemented particles, 7A543
- Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics, 10A575
SHUKLA, DR: Interlacing for improved performance of laminates with embedded devices, 11A736
SHUKLA, DS: Study of the EP activity of water-soluble inorganic metallic salts for aqueous cutting fluids, 12A912
SHUKLA, P: Fully spectral method for hyperbolic equations, 5A60
SHUKLA, PK: Drift wave instability and anomalous particle transport in collisional plasmas with high-Z dust impurities, 2A997
SHUKUROV, AM: Nonstationary waves radiated by a spherical shell in an elastic half-space, 7A224
SHUL'MAN, ZP: Special features of boiling of macromolecular polymer solutions, 5A1125
SHULEPOV, O: Dynamic stiffness analysis of laminated beams using a first order shear deformation theory, 1A130
- Vibrations and buckling of cross-ply nonsymmetric laminated composite beams, 10A198
SHULGA, NA: Propagation of electroacoustic waves in laminar cylinder with conducting layers, 7A237
- Theory of orthotropic shells and plates reinforced by the stiffening ribs, 7A637
SHULL , RD: TMS-AIME Symposium on structure and properties of nanophase materials Las Vegas, Nevada, Feb 13-15, 1995, 8A563
SHULLEY, SB: Use of composites for rehabilitation of steel structures - Determination of bond durability, 3A514
SHULMAN, ZP: Rheological factors in a thermal problem of local superhigh frequency hyperthermia, 4A1164
- Growth of vapor bubbles in boiling polymer solutions - I: Rheological and diffusional effects, 4A1177
- Growth of vapor bubbles in boiling polymer solutions - II: Nucleate boiling heat transfer, 4A1178
SHUM, DKM: Analysis of stable crack growth in brittle materials - Part II: A bridge zone model, 10A725
- Analysis of stable crack growth in brittle materials - Part I: A process zone model, 10A724
SHUM, KT: Numerical study of the wave-induced solute transport above a rippled bed, 2A860
SHUMILKINA, YA: Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous riblets, 10A1176
SHUN, HUANCHUN: Method for analyzing the dynamic response of a structural system with variable mass, damping and stiffness (Chinese), 11T98
SHUN, QING: Large sample size experimental investigation on the statistical nature of fatigue crack initiation and growth, 9A776
SHUNG, JB: Geometry and pressure in a trochoidal-type machine without apex seal, 12A979
SHUR, EA: Wear resistance of rail and wheel steels, 5A818
SHURUPOV, SV: Soot formation during pyrolysis of benzene-xylene mixtures, 7T1322
- Soot formation during pyrolysis and combustion of hydrocarbons, 7T1321
SHUSTER, DB: Non-optimal behavior of FEMs for first order hyperbolic problems, 9A20
SHUSTER, K: Effect of centerline particle concentration in a wave tube, 7A1087
SHUTER, DM: Fatigue crack growth from 2D surface defects, 1A744
SHUTTLE, DA: Practical geometry correction for interpreting pressurement tests in clay, 2T518
SHUVALOV, MP: Indirect determination of heat flux to a lander heat protection system, 1A1276
SHUY, EB: Approximate wall shear equation for unsteady laminar pipe flows, 2T848
- Wall shear stress in accelerating and decelerating turbulent pipe flows, 12T1017
SHUYU, LIN: Torsional vibration of coaxially segmented, tangentially polarized piezoelectric ceramic tubes, 12A640
SHVARTSMAN, MM: Coexistent phases in nonlinear thermoelasticity: Radially symmetric equilibrium states of aeolotropic bodies, 6A1163
SHVETS, RM: Discontinuous contact of an anisotropic half-plane and a rigid base with disturbed surface, 5A408
- Thermoelasticity of multilayer highly anisotropic shells, 7A1289
SHY, SS: Simulation of turbulent burning velocities using aqueous autocatalytic reactions in a near-homogeneous turbulence, 9A1317
SHY, WEN W: Influence of surface flow on aerodynamic loads of a cantilever wing, 8A1010
SHYU, ING-MING: Effect of fluorinated graphite on combustion of boron and boron-based fuel-rich propellants, 6A1204
SHYU, KUO-KAI: Robust tracking and model following for uncertain time-delay systems, 2A277
- Adaptive sliding mode control for variable structure systems with constraint control input, 7T387
SHYU, MAO-LIAN: Developing key components and products in Taiwan, 8T374
SHYY, JY-J: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
SHYY, W: Computational model of flexible membrane wings in steady laminar flow, 3A986
- Numerical simulation of unsteady convective intrusions in a thermocline stratification, 7A1298
- ELAFINT: A mixed Eulerian-Lagrangian method for fluid flows with complex and moving boundaries, 10A1082
SHYY, WEI: Convection treatment and pressure splitting for sequential solution procedures - Part I: Theory and 1D test cases, 6A1101
- Convection treatment and pressure splitting for sequential solution procedures - Part II: Pressure-based algorithm, 6A1102
- Development of pressure-based composite multigrid methods for complex fluid flows, 11A902
- Scalability and performance of data-parallel pressure-based multigrid methods for viscous flows, 11T882
SI, YUANCHUN: Research on ultra-precise level detection method of storage tanks (Chinese), 11A1087
SIANO, S: Diagnostic set-up for time-resolved imaging of laser-induced ablation, 10T720
SIBANDA, P: Hydrodynamic stability of channel flow with compliant boundaries, 8A948
SIBBALD, A: Integrity assessment of masonry arch bridges using the dynamic stiffness technique, 6A769
- Modal analysis for masonry arch bridge spandrell wall separation identification, 6A160
SIBGATULLIN, N: Canonical variables for one Hamiltonian system, 4T94
SIBGATULLIN, NR: Possibility of equilibrium positions of rapidly-rotating bodies in gravitational fields, 8A213
SICARD, J: Dependence of porous media on geometrical parameters (French), 11A562
SICHEL, M: Mechanisms of detonation transmission in layered H_2-O_2 mixtures, 5T214
- Deflagration to detonation transition fueled by dust layers, 5A213
SICONOLFI, DJ: Single particle characterization of time-of-flight mass spectrometry, 2A1210
SIDDIQUE, R: Characteristics of concrete reinforced with San fibers, 8A742
SIDDIQUEE, MSA: Tracing the equilibrium path by dynamic relaxation in materially nonlinear problems, 4A92
SIDDIQUI, MS: Navier-Stokes computations of heat transfer for high-speed flows, 11A921
SIDDIQUI, SAQ: New vibration regulation strategy and stability analysis for a flexible gyroscopic system, 12A407
SIDERIDIS, E: Study of orthotropic materials: The interphase model and the crack initiation, 5A470
SIDERIS, TC: Finite time singularities in ideal fluids with swirl, 4A932
SIDERS, CM: Modal analysis of a structure in a compressible fluid using a FE-BE approach, 9A329
SIDORENKO, VV: Motion of a rigid body with flexible rods that admits a symmetry group, 3A85
- Dynamic evolution of a mechanical system with a very rigid linear damper, 7A135
SIDOROV, VP: Transition to detonation in vented hydrogen-air explosions, 3A242
- Deflagration to detonation transition in large confined volume of lean hydrogen-air mixtures, 7A309
SIDYGANOV, VU: Superheated vapor condensation on a superfluid helium surface, 1A1243
SIECZKOWSKI, JM: Interactive program for shape optimization of sections under Saint-Venant torsion using BEM, 1A54
SIEGEL, KL: Improved agreement of foot segmental power and rate of energy change during gait: Inclusion of distal power terms and use of 3D models, 10A1470
SIEGEL, M: Well-posed numerical method to track isolated conformal map singularities in Hele-Shaw flow, 1T1011
- Study of singularity formation in the Kelvin-Helmholtz instability with surface tension, 1A1074
SIEGEL, R: Transient heat transfer in a semitransparent radiating layer with boundary convection and surface reflections, 3A1143
- Two-flux method for transient radiative transfer in a semi-transparent layer, 6T1138
- Temperature distributions in semitransparent coatings: A special two-flux solution, 6A1137
- Two-flux and diffusion methods for radiative transfer in composite layers, 8T1177
SIEGLER, S: Six-dof instrumented linkage for measuring the flexibility characteristics of the ankle joint complex, 12A1480
SIEGMANN, K: Reactive dimerization: A new PAH growth mechanism in flames, 7A1320
SIEGMANN, WL: Low-frequency sound propagation modeling over a locally reacting boundary with the parabolic approximation, 1A346
- Parabolic equation for poro-elastic media, 1A1368
- Sound propagation over impedance discontinuities with the parabolic approximation, 7A364
SIEK, KH: Scanning conduction microscopic method for probing abrasion of insulating thin films, 4A848
SIEKMANN, J: Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, 2A931
- Numerical study of the oscillations of axially excited liquid annuli with rotational symmetry enclosed in revolving circular cylindrical containers, 2A881
SIELSKI, R: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
SIEMASZKO, A: Continuum sensitivity method for reliability-based structural design and optimization, 3A754
- Limit state reliability optimization accounting for geometric effects, 11A724
SIEMEK, J: Peculiarities of two-phase flow in coalbeds, 2A934
- Changes of total porosity and skeleton volumes in elastic porous media (Polish), 3A1262
- Peculiarities of two-phase flow in coalbeds, 3A933
SIENIUTYCZ, S: Conservation Laws in Variational Thermo-Hydrodynamics, 2R49
- Variational principle for entropy in electrochemical transport phenomena, 10A1356
SIENKIEWICZ, F: Combined experimental and numerical scheme for the determination of contact loads between cemented particles, 7A543
SIERAKOWSKI, RL: Damage Tolerance in Advanced Composites, 3R16
- Mode I fracture modeling of elastomer-toughened polymers, 12A769
SIEVERDING, CH: Investigation of the flow field downstream of a turbine trailing edge cooled nozzle guide vane, 11A1066
SIEVERS, J: Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, 3A1358
SIGBJORNSSON, R: Simulation of earthquake ground motion and structural response, 1A1403
SIGINER, DA: Developments and Applications of Non-Newtonian Flows, FED-Vol 231/MD-Vol 66 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N28
- Developments in electurheological flows, FED-Vol 235/MD-Vol 71 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N22
SIGNOR, DB: Effects of ingested atmospheric turbulence on measured tail rotor acoustics, 7A313
SIGURDSON, LW: Structure and control of a turbulent reattaching flow, 2A994
SIH, GC: Model of debonding instability for solid propellant rocket motor - Part I: Uniform longitudinal and transverse stress rate, 7A848
- Model of debonding instability for solid propellant rocket motor - Part II: Unequal longitudinal and transverse stress rate, 7A849
SII, HS: Investigations on preheated palm oil methyl esters in the diesel engine, 10A1388

SIIKONEN, T: Application of Roe's flux-difference splitting for k-ε turbulence model, 4A1089
- Conservative multiblock Navier-Stokes solver for arbitrarily deforming geometries, 5A905
SIKAMORI, M: Mechanical properties of the composite beam using the permanent form reinforced with CFRP and its application to the pier (Japanese), 4T517
SIKARSKIE, DL: Technique for generating stress-strain curves from flexural data, 12A568
SIKKENGA, SL: Aero engine test experience with CMSX-4 alloy single-crystal turbine blades, 10A223
SIKOVSKIY, DF: Convective heat transfer from a horizontal cylinder in a porous medium and a narrow slot, 10A1268
SIL'VESTROV, VV: Stressed state near a microflaw cluster point, 4A704
SIL, SN: Analysis of free undamped vibration of beams of varying cross-section, 8A106
SILBERMANN, B: Corrected collocation methods for periodic pseudodifferential equations, 1A56
SILBERSCHMIDT, VV: Scaling and multifractal character of matrix cracking in carbon fiber-reinforced cross-ply laminates, 1A821
SILBERSTEIN, A: Effects of air and moisture flow on the thermal performance of insulations in ventilated roofs and walls, 11A1228
SILCOX, RJ: Comparison of time domain boundary conditions for acoustic waves in wave guides, 11A254
SILICIU, I: Energy estimates and energy control of numerical stability in coupled dynamic thermoelasticity, 2T1153
SILKOWSKI, PD: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
SILVA FREIRE, AP: Kaplun limits and the asymptotic structure of the turbulent boundary layer, 10A1130
SILVA, AFC: Two-dimensional two-phase petroleum reservoir simulation using boundary-fitted grids, 3A43
- Code validation for high-speed flow simulation over satellite launch vehicle, 7A1083
SILVA, FL: Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistory frames, 4A1335
SILVA, LA: Space-frequency data compression method for spatially dense laser Doppler vibrometer measurements, 7A885
SILVA, MJ: Effects of non-periodic microstructure on the elastic properties of 2D cellular solids, 2A434
SILVERBERG, L: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9
- Fuel optimal propulsive maneuver of an experimental structure exhibiting spacelike dynamics, 6A310
- Optimal control of a rigid body with dissimilar actuators, 11T329
- Dynamics and control of electrostatic structures, 12A403
SILVERMAN, I: New heterogeneous burning velocity formula for the propagation of a laminar flame front through a polydisperse spray of droplets, 8A1250
SILVESTER, DJ: Comparison of coupled and segregated iterative solution techniques for incompressible swirling flow, 8A950
SILVESTER, PP: Finite Elements for Electrical Engineers, Third Edition, 8N2
SILVESTRI, G: Neural-network-based scheme for sensor failure detection, identification, and accommodation, 4A392
- Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification, 8A349
SILVESTROV, VV: Dynamic compressive strength of epoxy based composites (Russian), 8A466
SIM, W-G: Three dimensional viscous flows between concentric cylinders executing axially variable oscillations: A hybrid spectral-finite difference solution, 5A940
SIMAAN, MA: Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, 4A347
SIMACEK, P: Notes on the behavior of transversely loaded inextensible plates, 5A393
- Notes on the modeling of preform compaction - I: Micromechanics at the fiber bundle level, 7A573
SIMATUPANG, MH: Investigations on the influence of the addition of carbon dioxide on the production and properties of rapidly set wood-cement composites, 1A532
SIMEK, M: Temperature measurements in non-equilibrium "ferroelectric" plasma, 10A1191
SIMHA, KRY: Analytical and experimental evaluation of cold-working process for strain hardening materials, 7A537
- Two dof modeling of pre-cracked beams under impact, 7A851
- Torsion of half-space with lined cylindrical hole, 11T415
SIMHAMBHATLA, M: Rheological modeling of viscoelastic polymer liquids with stable constitutive equations, 1A969
- Rheological modeling of filled polymers with particle-matrix interactions, 2A847
SIMIC, M: Objective criteria for determining G_{max} from bender element tests, 12T649
SIMIONESCU, I: Statically determinate self centering grippers, 11A368
SIMIONESCU, O: Asymptotic analysis for stress concentration around square holes with rounded corners, 11A422
SIMITSES, GJ: Scale models for laminated cylindrical shells subjected to axial compression, 12A596
SIMIU, E: Non-Gaussian noise effects on reliability of multistable systems, 5A105
- Melnikov processes and noise-induced exits from a well, 8A87
- Extreme wind distribution tails: A "peaks over threshold" approach, 10A1208
- Melnikov process for stochastically perturbed, slowly varying oscillators: Application to a model of wind-driven coastal currents, 12A1030
SIMMERMACHER, T: Model correlation using multiple static load and vibration tests, 4A145
SIMMIE, JM: Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
- Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, 12A1310
SIMMONDS, JG: Simplified displacement-rotation form for the equations of motion of nonlinearly elastic shells of revolution undergoing combined bending and torsion, 12A175
SIMMONS, JEL: Generalized approach for the kinematic analysis of planar mechanisms, 2A824
- Intelligent tool selection system, 7A743
SIMMONS, JM: Drag measurements at Mach 5 using a stress wave force balance, 3A916
- Three-component force balance for flows of millisecond duration, 8A1043
SIMMONS, R: Perception, planning, and control for autonomous walking with the ambler planetary rover, 8A354
SIMMS, D: Unsteady aerodynamics associated with a horizontal-axis wind turbine, 12A1433
SIMMS, S: Mechanistic evaluation of fly ash asphalt concrete mixtures, 7A546
SIMO, JC: Stability and convergence of a class of enhanced strain methods, 4A434
- Anisotropic modeling and numerical simulation of brittle damage in concrete, 4A689
- Long-term dissipativity of time-stepping algorithms for an abstract evolution equation with applications to the incompressible MHD and Navier-Stokes equations, 12A1161
- Entropy elasticity of isotropic rubber-like solids at finite strains, 12A1272
SIMOENS, S: Turbulent concentration determination in gas flow using multiple CCD cameras, 5A1110
SIMOES MOREIRA, JR: Adiabatic evaporation waves, 3A1089
SIMOES, FMF: Dissipative graph solutions for a 2 dof quasistatic frictional contact problem, 2A386
SIMOES, LMC: Optimization of frames with semi-rigid connections, 12A854
SIMON, BR: Foroelastic FE formulation including transport and swelling in soft tissue structures, 9A1443
SIMON, F: Shocks detection in a piping system network (French), 11A164
SIMON, HD: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
SIMON, J: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 2, 3N33
SIMON, L: Time-frequency analysis of a non-uniformly sampled signal with the Wigner-Ville transform: Application to the study of the gyroscopic motion of a projectils, 5A86
SIMON, MC: Regional controllability of distributed parameter systems, 5A299
SIMON, MJ: Uniqueness in linearized 2D water-wave problems for two surface-piercing bodies, 3A891
SIMON, N: Determination of the diffusion coefficients of iron and chromium in Pb-17Li, 1A1310
SIMON, P: Heat capacities of $15Na_2O{\cdot}10(MgO, CaO, TiO_2, ZrO_2){\cdot}75SiO_2$ glasses, 8A1062
SIMON, TW: Effects of dissolved gas content on pool boiling of a highly wetting fluid, 3A1080
SIMON, V: Evaporative cooling of fibers by a low-Reynolds-number crossflow, 8T1147
SIMONEAU, RJ: Influence of turbulence parameters, Reynolds number, and body shape on stagnation-region heat transfer, 3A1061
SIMONI, L: Coupled model for water flow, airflow and heat flow in deformable porous media, 1A1369
SIMONOV, IV: Estimates of the pressures, temperatures and drag coefficient in the supersonic flow of a medium around blunt bodies, 7A10R2
SIMPSON, A: Theoretical and numerical assessment of strain pattern analysis, 10A140
SIMPSON, B: Approximate analysis of the 3D effects of diaphragm wall installation, 2T512
SIMPSON, DJA: Generalized approach for the kinematic analysis of planar mechanisms, 2A824
SIMPSON, HC: Unstable flow in centrifugal fans, 9A1236
SIMPSON, HJ: Ultrasonic four-wave mixing mediated by an aqueous suspension of microspheres: Theoretical steady-state properties, 1A321
SIMPSON, KA: Prediction of horizontal response spectra in Europe, 9A1393
- Prediction of vertical response spectra in Europe, 9A1394
SIMPSON, RL: Measurements of the turbulence structure in the vicinity of a 3D separation, 12A1110
- Experimental study of a 3D pressure-driven turbulent boundary layer, 12T1149
SIMPSON, SH: Computer model of major haemorrhage and resuscitation, 11A1463
SIMPSON, TA: Nonlinear friction-induced vibration in water-lubricated bearings, 6A849
SIMSIK, D: Tactile transducer development for rehabilitation and exercise machines, 10A1492
SIMSKE, SJ: Material and compositional properties of selectively demineralized cortical bone, 2A1309
SIMURKA, P: Heat capacities of $15Na_2O{\cdot}10(MgO, CaO, TiO_2, ZrO_2){\cdot}75SiO_2$ glasses, 8A1062
SIN, H-C: Curvature-based beam elements for the analysis of Timoshenko and shear-deformable curved beams, 4A148
SIN, HYO-CHOL: Development of a thermo-viscoplastic cutting model using FEM, 5A558
- New incompatible four-noded axisymmetric elements with assumed strains, 11A36
SINCLAIR, GB: Exact solutions of Reynolds equations, 5T1088
- Fundamental energy argument of elastic fracture mechanics, 8A614
SINCLAIR, I: Deviant crack path behavior of aluminum-lithium alloy AA8090 plate, 11A624
SINCLAIR, JD: Single particle characterization of time-of-flight mass spectrometry, 2A1210
SINDEL, Z: Tangent stiffness properties of FEs, 3A39
SINELNIKOV, VA: Distinguishing features of phase transformation in the surface layer of hardened steel with (α + γ)-two-phase structure during plastoelastic loading at different rates, 9A983
SINEV, AV: Enhancement of internal damping of pneumatic springs of vibration isolation systems by means of introduction of negative-stiffness elements, 6A335
- Digitally controlled invariant active vibration-isolation system for microgravity protection, 7A397
SINEY, P: Measurement of wear in retrieved acetabular sockets, 6A1366
SINGACE, AA: Eccentricity factor in the progressive crushing of tubes, 2A500
SINGER, N: Extra-insensitive input shapers for controlling flexible spacecraft, 8A326
SINGH, A: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 14, 3N45
- Effect of embedment length of tension reinforcement on the behavior of lightweight concrete deep beams, 7A933
- Flow boiling heat transfer coefficients of R-134a in a microfin tube, 11T1168
SINGH, AK: Adaptive Bayes estimators for parameters of the Gompertz survival model, 7A68
SINGH, AV: Vibrations of composite noncircular cylindrical shells, 5A481
- Vibration of laminated shallow shells on quadrangular boundary, 10A197
SINGH, B: Transverse vibration of a quarter of an elliptic plate with variable thickness, 2A106
- Transverse vibration of a circular plate with unidirectional quadratic thickness variation, 7A168
- Axisymmetric vibration of a circular plate with exponential thickness variation, 10A172
SINGH, BM: Note on the torsion of a non-homogeneous solid by an annular disc, 1A473
- Reissner-Sagoci problem for a nonhomogeneous half-space with a penny-shaped crack, 2A615
- Contact problem of a pair of flat rectangular stamps resting on an elastic half-space, 3A432
- Plastic zones in an orthotropic plate of finite width containing a Griffith crack, 12A746
SINGH, DJ: Simulation of shock-induced combustion past blunt projectiles using shock-fitting technique, 11A1289
SINGH, G: Stability of laminated composite plates subjected to various types of in-plane loadings, 4A575
- Asymmetric buckling of layered orthotropic circular and annular plates of varying thickness using a computationally economic semianalytical FE approach, 7A657
- Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, 8A485
- Post-buckling of moderately thick elliptical plates, 12A612
SINGH, H: Prediction of burn rate of magnesium-sodium nitrate propellant, 5A1260
- Regional pole placement method for discrete-time systems, 12T379
SINGH, J: Ducted air flow induced by multiple spray nozzles, 5A922
- Identification of lateral-directional behavior in stall from flight data, 11T1022
SINGH, JP: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
- Evaluation of Jameson-Schmidt-Turkel dissipation scheme for hypersonic flow computations, 9A1098
SINGH, K: Effect of rest time after application of single overload cycle on fatigue life, 10A782
- Power output of Al/SnO_2/n-Si solar cell, 11A1428
SINGH, KD: Three-dimensional oscillatory flow through a porous medium with periodic permeability, 1A1361
- Heat transfer in a 3D flow through a porous medium with periodic permeability, 6T1225
SINGH, M: Experimental study of the discharge coefficient of pipe perforations, 3A877
- Characterization of SiC fiber (SCS-6) reinforced-reaction-formed silicon carbide matrix composites, 8A447
- Optimum kinetic energy dissipation in blood flow in glass capillaries by flow field determination: Analysis of curvature effect by axial tomographic and image velocimetry techniques, 8A1435
SINGH, MNK: Elastic-plastic stress-strain calculation in notched bodies subjected to non-proportional loading, 12A743
SINGH, MP: Seismic response of structural frameworks with flexible connections, 3A1317
- Equivalent linearization of generally pinching hysteretic, degrading systems, 12A1401
SINGH, R: Dynamics of a piecewise nonlinear system subject to dual harmonic excitation using parametric continuation, 1A180
- Linear dynamic analysis of multimesh transmissions containing external, rigid gears, 1A942
- Method of images for the harmonic response of beams and rectangular plates, 2A94
- Active vibration control of a beam subjected to AM or FM disturbances, 4A798
- Dynamic analysis of a brushless dc motor using a modified harmonic balance method, 5A338
- Analysis of periodically forced nonlinear Hill's oscillator with application to a geared system, 6A151
- Modal truncation issues in synthesis procedures for vibratory power flow and dissipation, 9A210
- Mobility analysis of structure-borne noise power flow through bearings in gearbox-like structure, 10A1013
- Eigensolutions of annular-like elastic disks with intentionally removed or added material, 11A126
- Thermomechanical generalization of partial contact in pin joints, 12A993
SINGH, RK: Formulation and solution of the nonlinear, damped eigenvalue problem for skeletal systems, 2A127
- Structure of turbulence in an incipient-separating axisymmetric flow, 5A963
- Application of *k*-step Lanczos method to extract the interior eigenvalues of skeletal systems, 7A179
SINGH, RN: Crack propagation in piezoelectric materials under combined mechanical and electrical loadings, 5A586
SINGH, RP: Multibody dynamics incorporating deployment of flexible structures, 10A952
SINGH, S: Mixed-mode fracture in an interleaved carbon-fiber-epoxy composite, 7A836
- Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, 9A397
SINGH, SC: Broadband receiver response from dual-streamer data and applications in deep reflection seismology, 6A1246
SINGH, SK: Approximate solution of 1D piston problem, 2A186
- Scheme of random summation of an empirical Green's function to estimate ground motions from future large earthquakes, 6A1267
- Triaxial tests on crushed ice, 11A1446
SINGH, SN: Nonlinear predictive control of feedback linearizable systems and flight control system design, 3A338
- Inverse force and motion control of constrained elastic robots, 5A372
- Influence of co-swirl on the flow development of co-axial jets in a dump confinement, 7A1108
- Flow characteristics in a large area ratio curved diffuser, 8A1031
- Adaptive control of feedback linearizable nonlinear systems with application to flight control, 12A398
SINGH, SP: Composite shaft rotordynamic analysis using a layerwise theory, 10A224
SINGH, T: Fuel-time optimal control of the benchmark problem, 4A351
- Near-minimum-time maneuvers of large structures: Theory and experiments, 4T375
- Robust time-delay control of multimode systems, 5A322
- Exact time-optimal control of the wave equation, 6A284
SINGH, UP: Process model for air bending, 10A698
SINGH, VP: Nonaxisymmetric dynamic response of imperfectly bonded buried fluid-filled orthotropic cylindrical shells, 7A174
SINGHOSE, W: Extra-insensitive input shapers for controlling flexible spacecraft, 8A326
- Fuel-efficient pulse command profiles for flexible spacecraft, 12A405
SINGLE, IL: Wear behavior of triode-sputtered MoS_2 coatings in dry sliding contact with steel and ceramics, 12A919
SINHA, R: Response of primary-secondary systems to short-duration, wide-band input, 1A166

SINHA, A: Neural network-based active vibration absorber with state feedback control, 7A917
SINHA, BP: Shear behavior of press-joining in cold-formed steel structures, 10A912
SINHA, G: Finite element free vibration analysis of a thermally stressed spinning plate, 8A128
SINHA, JK: Diagnosis of the bearing failure in a pilger mill, 10A1008
SINHA, N: Upwind unstructured scheme for 3D combusting flows, 11A1297
SINHA, NK: Three dimensional anisotropic constitutive model for ductile behavior of columnar grained sea ice, 9A516
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers, 11A1438
SINHA, P: Lubrication of rollers by power law fluids considering consistency-variation with pressure and temperature, 2A1052
SINHA, PK: Finite element flutter analysis of composite skew panels, 4A292
- Moisture diffusion in variously shaped fiber reinforced composites, 7A1296
- Bending, free vibration and impact response of thick laminated composite plates, 7A152
- Thermal shocks in composite plates: A coupled thermoelastic FE analysis, 7A584
- Finite element impact analysis of doubly-curved laminated composite shells, 9A36
- Finite element free vibration analysis of doubly-curved laminated composite shells, 10A184
- Thermoelastic excitation of multi-directional fibrous composite cylinders, 11A1245
- Impact response of doubly curved laminated composite shells using higher-order shear deformation theories, 12A597
SINHA, S: Effect of placing vortex generators above ribs in ribbed ducts on the flow, flow temperature, and heat transfer behavior, 11A1109
SINHA, SC: Response of linear time-periodic systems subjected to deterministic and stochastic excitations, 10A132
- Liapunov-Floquet transformation: Computation and applications to periodic systems, 10A88
SINHA, SK: Surface roughness by X-ray and neutron scattering methods, 9A989
- Diagnosis of the bearing failure in a pilger mill, 10A1008
- Applications of conformal mapping to diverging open channel flows, 12A1018
SINHA, SN: Design curves for prestressed concrete rectangular beam sections based on BS 8110, 8A756
- Direct method of design of rectangular column section, 8A745
SINHASAN, R: Transient response of a two-lobe journal bearing lubricated with non-Newtonian lubricant, 4T1123
SINKOVITS, RS: Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid, 12A67
SINNO, RR: Governing stresses in Z-purlin lap joints, 6A861
SIRA-RAMIREZ, H: Switching control strategy for the power system stabilization problem, 3A385
- Design of pulse width modulation controllers for stabilization and tracking in derived DC-to-DC power converters, 11T340
SIRAGEV, EZ: Commercial hazardous liquid waste disposers using thermojet afterburners, 6A1300
SIRIGNANO, WA: Transcritical vaporization and combustion of lox droplet arrays in a convective environment, 2A1114
- Oscillatory fuel droplet vaporization: Driving mechanism for combustion instability, 8A1267
- Transcritical liquid oxygen droplet vaporization: Effect on rocket combustion instability, 8A1268
SIRINAOVAKUL, B: Analysis of computer-aided facility layout techniques, 12T465
SIRKIS, JS: Study of the optomechanical response of a diametrically loaded high-birefringent optical fiber, 7A886
SIROTENKO, IV: Simulation of the "crankshaft-bearings-cylinder block supports" tribosystem in internal combustion engines, 5A833
SIROTIN, AN: Time-optimal control of reorientation of a spherically symmetric rotating solid, 5A329
SIROVICH, L: Direct numerical simulation of turbulent flow over a modeled riblet covered surface, 4A1078
- Simple model of chaotic advection and scattering, 5A895
SISMAN, T: Mimo and siso self-tuning hybrid position-force control of robotic manipulators, 5A373
SISTLA, R: Efficient BEM for computing accurate stresses in 2D anisotropic problems, 8A400
SISTO, F: Modern Course in Aeroelasticity, Third Revised and Enlarged Edition - Solid Mechanics and Its Applications Series, 1N11
SITNIK, AS: Precritical state and stability of cylindrical shells beyond the elasticity limit, 7A668
SITTIPUNT, C: Influence of web reinforcement on the cyclic response of structural walls, 5T709
SIU, GG: Study on the polypropylene-high density polyethylene-styrene-butadiene-styrene block copolymer ternary blends - I: Composition, morphology, and properties of polypropylene/high density polyethylene-styrene-butadiene-styrene block copolymer blends, 7A589
SIVA PRASAD, N: Estimation of residual stresses in weldments using adaptive grids, 12A996
SIVADAS, KR: Vibration analysis of pre-stressed thick circular conical composite shells, 2A122
- Vibration analysis of pre-stressed rotating thick circular conical shell, 2A121
SIVAK, VF: One method of processing of experimental data obtained under the test of cylindrical shells for stability under axial compression (Russian), 3A563
- One of possible methods of prediction of critical stresses in longitudinally compressed cylindrical shells (Russian), 7A614
SIVAKUMAR, D: Jet interaction in liquid-liquid coaxial injectors, 12A1133
SIVALOGANATHAN, S: Convergence of finite difference methods for a class of two-point boundary value problems with periodic boundary conditions, 7T46
- Numerical solution of the 3D buoyancy driven cavity problem by a pseudospectral method, 7A1091
SIVASHANKER, S: Microbuckle propagation in a unidirectional carbon fiber-epoxy matrix composite, 12A536
SIVATHANU, YR: Radiometric measurements of wall temperatures in the 800 K to 1150 K range for a quartz radiant heating tube, 3T1132
SIVIER, S: Dusty shock flow with unstructured adaptive FEs and parcels, 10T15
SIWAK, P: Filter automata and PRR filtering, 3A73
SIXSMITH, IJ: New Method of investigating piston ring friction under firing conditions, 10A1003
SJOBERG, J: Overtraining, regularization and searching for a minimum, with application to neural networks, 5T345
SJOLANDER, SA: Retained lift: Theoretical difficulties with the concept and an alternative explanation of observations, 5T1061
- Measurements of the flow in an idealized turbine tip gap, 5A1035
SJOLIND, S-G: Effect of mineral fillers on properties of composite matrix materials, 2A436
SKALA, V: Comparison of 2D line clipping algorithms, 1A69
SKALAK, TC: Axisymmetric pressure-driven flow of rigid pellets through a cylindrical tube lined with a deformable porous wall layer, 11A1315
SKALMIERSKI, B: Free vibration of a rectangular plate loaded by a non-uniform in-plane force, 4A168
SKALNY, A: Elements of parallel transformation at computer-aided analysis and control of robot-excavator system in the working process of mineral deposits (Polish), 3A409
SKALOUD, M: Steel Plated Structures, 6N27
- Residual shear strength of fatigue cracked slender web panels, 5A604
SKALSKI, K: Problems of mechanics of metal surface layers, 9A418
SKARLATOS, D: Statistical approach for the diffusion of sound by reflecting surfaces in large enclosures, 6A249
SKARPETIS , MG: Disturbance rejection for an aircraft flying in atmospheric disturbances, 3A367
SKARTVEIT, A: Spatially continuous mapping of solar resources in a complex high latitude topography, 5A1357
- Estimation of atmospheric radiation from surface meteorological data, 11A1426
SKELDON, AC: Long-wave morphological instabilities in directional solidification, 5A1170
SKELTON, PLI: Simulation of wet-snow accretion by axial growth on a transmission line conductor, 1A1441
SKELTON, RE: XY-centering algorithm for the dual LMI problem: A new approach to fixed-order control design, 5T328
- Alternating convex projection methods for discrete-time covariance control design, 7A385
SKERGET, L: Boundary-domain integral method using a velocity-vorticity formulation, 4A972
- Iterative methods in solving Navier-Stokes equations by the BEM, 5A890
SKEWS, B: Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, 5A1305
SKEWS, BW: Flow through a perforated surface due to shock-wave impact, 11A206
SKINEER, G: Maintaining mature military air transport aircraft, 11A792
SKINNER, KA: Mass spectrometer measurements of test gas composition in a shock tunnel, 6T1055
SKINNER, WR: Stellar alignment of the high resolution Doppler image, 5A242
SKIPOR, AF: Effect of mechanical constraint on the flow and fracture of 63-37 Sn-Pb eutectic alloy, 2A628
SKLENICKA, V: High temperature creep and cyclic deformation behavior of AISI 316 L(N) austenitic steel and its modeling with unified constitutive equations, 11A441
SKOCYPEC, RD: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31
SKOCYPEC, S: Anomalies in the normal force measurement when using a force rebalance transducer, 11A861
SKOCZYLAS, F: Poroplastic behavior of porous rocks, 1A708
SKOGERBOE, P: Effects of Dean vortex pairs on surface heat transfer in curved channel flow, 3A1060
SKOP, RA: Nonlinear oscillator model for vortex shedding from cylinders and cones in uniform and shear flows, 11A969
SKOPINSKY, VN: Stress analysis of nonradial cylindrical shell intersections subjected to external loading, 9A588
SKOREK, J: Fixed grid numerical technique for the Stefan problems, 9A1305
SKOREK, T: Two-phase modeling in horizontal dividing T-junction with different branch diameters, 3A934
SKORMIN, VA: Application of statistical clustering to screen printing process control, 3A383
SKOROBOGATYKH, IV: Vibrations of a rotating viscoelastic axisymmetric body under surface load, 5A102
SKRIPOV, VP: Heat transfer to emulsion with a low-boiling disperse phase, 1A1282
SKRZYPCZYK, J: Accuracy analysis of statistical linearization methods applied to nonlinear dynamical systems, 9T113
SKUMIEL, A: Propagation of ultrasonic waves in condenser oil at presence of DC electric field, 9T259
SKUP, Z: Forced vibration of a transmission system containing friction clutch with structural friction and slide taken into consideration, 9A221
SKURATOV, AS: Pressure fluctuation characteristics in supersonic wind tunnel and their effect on boundary layer transition, 10T1090
SKURSKI, P: Theoretical methods in thermodynamics of condensed phases, 4A1137
- Theoretical prediction of enthalpies and temperatures of sublimation of organochlorine compounds including pesticides, 4A1138
SKVORTSOV, VV: Rarefied neutral gases with velocities of 8-15 KM-S, 10A1107
SKYES, JEH: Vibration of an aero-engine rotor incorporating two squeeze-film dampers, 8A153
SKYNER, D: Comparison of numerical predictions and experimental measurements of the internal kinematics of a deep-water plunging wave, 11A192
SLAD, G: Differential analysis of coda Q using similar microearthquakes in seismic gaps - Part 1: Techniques and application to seismograms recorded in the Anza seismic gap, 12A1369
SLADEK, J: Elastoplastic crack analysis by boundary integral method and surface spectrum measurement, 1A795
- Boundary element method for thermoelastoplastic problems, 4A1230
- Boundary element analysis for an interface crack between dissimilar elastoplastic materials, 5A666
- Smooth modeling of the normal vector by using C^0-continuous Lagrange elements in BEM, 5A48
- Regularization of hypersingular integrals in BEM formulations using various kinds of continuous elements, 11A55
SLADEK, V: Elastoplastic crack analysis by boundary integral method and surface spectrum measurement, 1A795
- Boundary element method for thermoelastoplastic problems, 4A1230
- Boundary element analysis for an interface crack between dissimilar elastoplastic materials, 5A666
- Smooth modeling of the normal vector by using C^0-continuous Lagrange elements in BEM, 5A48
- Regularization of hypersingular integrals in BEM formulations using various kinds of continuous elements, 11A55
SLADKOVA, LA: Technique for calculating the stresses in the elements of construction-machine metallic structures with allowance for hinged joint clearances, 10A1032
SLAMENIKOVA, J: Constitutive description of creep curves based on internal stress evolution, 3A450
SLAMINKA, EE: Doubling bifurcations of destroyed T^4 tori, 10A99
SLATER, JC: Numerical method for determining nonlinear normal modes, 10A112
SLATER, T: Three-dimensional human femoral strain analysis using ESPI, 3A1414
- Multi-axial strain gage with octagonal shape, 10T466
SLATTERY, RA: Capture conditions for merging trajectory segments to model realistic aircraft descents, 8T1015
SLAVCHEVA, G: Calculation of the eigenmodes of a non-homogeneous clamped membrane, 6A127
SLAVIK, J: Monitoring and analysis of seismicity in the Ostrava-Karvina coal mining district, 3A1306
SLAVKOVIC, R: Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure, 4A579
- General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, 12A515
SLAVTCHEV, SG: Unsteady heat transfer in a liquid film on a rotating disk, 9A1254
SLEIGH, PA: Natural convection in a shallow laterally heated air-filled cavity, 4A1153
SLEMMONS, DB: Surface faulting of the 1954 Fairview Peak (M_S 7.2) and Dixie Valley (M_S 6.8) earthquakes, central Nevada, 12A1388
SLEMROD, M: Stability of spherical isothermal liquid-vapor interfaces, 1A1036
- Discrete velocity coagulation-fragmentation model, 2A1111
SLEPYAN, L: Scale effect in the thin layer delamination problem, 2A656
SLEPYAN, LI: Asymptotic solutions for crack closure in an elastic plate under combined extension and bending, 3A709
- Radial cracking with closure, 7A865
SLESAREV, V: Modeling of coal mines energy-consuming technological processes, 9A470
SLEZIONA, J: Influence of ceramic particles on solidification of Al-SiC and Al-Al_2O_3 (Polish), 9A556
SLEZIONA, PC: Characterization of a nitrogen flow within a plasma wind tunnel, 1A1024
SLIKKERVEER, PT: Implicit surface tension algorithm for Picard solvers of surface-tension-dominated free and moving boundary problems, 10A1078
SLIMANE, CK: Modelization and characterization of asymmetrical thermal micro-actuators, 10T464
SLINELY, HE: Effect of Prolonged exposure to 750 deg/C air on the tribological performance of PM212: Self-lubricating composite material, 2T1061
SLINGERLAND, FW: Aircraft fuselage noise transmission measurements using a reciprocity technique, 4A331
SLITERIS, R: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701
SLOAN, DG: Modeling of local extinction in turbulent flames, 10A1399
SLOAN, F: Mechanical characterization of extended-chain polyethylene fiber-reinforced composites, 4A516
SLOAN, IH: Superconvergence in FEMs and meshes that are locally symmetric with respect to a point, 10A24
SLOAN, SW: Upper bound limit analysis using discontinuous velocity fields, 4A40
- Automatic load stepping algorithm with error control, 10A16
SLOBODKINA, FA: Unsteady processes in aerospace power units with stage separation, 12A1327
SLOBODRIAN, RJ: Fractal aggregates with fullerene-like monomers, 8A462
SLOMCZYNSKI, K: Vortex shedding from circular cylinder in oscillatory incident flow, 10A1212
SLOSS, JM: Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 1: Theory, 3T324
- Maximum principle for the optimal control of a hyperbolic equation in one space dimension - Part 2: Application, 4T352
- Maximum principle for the optimal control of a hyperbolic equation in two space dimensions, 6A285
SLOZKA, V: Variational modifications of Zemockin contact problems solution method, 9A122
SLUYS, LJ: Gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials, 6A651
SLUZALEC, A: Parameter sensitivity in nonlinear thermal problems, 6A16
- Material derivative and control volume approaches to shape sensitivity analysis of nonlinear transient thermal problems, 8A714
- Shape sensitivity analysis for nonlinear steady-state heat conduction problems, 11A1194
SMAGIN, VI: Synthesis of locally-optimal algorithms of control in tracking systems applied in indirect measurements with errors, 6A294
SMAILI, A: Elastodynamic response of a dc motor driven flexible mechanism system with compliant drive train components during start-up, 11A827
SMALL, JC: Analysis of piled raft systems in layered soil, 6A540
- Finite layer analysis of vertically loaded piles and pile groups, 7A705
- Elastic analysis of buried structures subject to 3D surface loading, 11A767
SMALLEN, M: Pole tip recession: Investigation of factors affecting its measurement and its variation with contact start-stop and constant speed drag testing, 5A814
SMALLEY, IJ: Genesis and Properties of Collapsible Soils - Series C: Math and Phys Sci, Vol 468, 9N14
SMALLWOOD, DO: Matrix methods for estimating the coherence functions from estimates of the cross-spectral density matrix, 12A135
SMALLWOOD, GJ: Inner cutoff scale of flame surface wrinkling in turbulent premixed flames, 1A1321
SMART , MK: Effect of shock strength on oblique shock-wave and vortex interaction, 4A992
SMART, FM: Parametric stress analysis of bonded "combination-materials" type of orthodontic brackets, 11T1481
SMART, MK: Measurements of supersonic wing tip vortices, 3A987
SMEDBY, O: Development of femoral atherosclerosis in relation to flow disturbances, 8A1432

SMEDMAN, A-S: Spectra, variances and length scales in a marine stable boundary layer dominated by a low level jet, 6A1294
SMEETH, M: Measurement and modeling of boundary film properties of polymeric lubricant additives, 7T1188
SMELSER, RE: Asymptotic model of slab casting, 1A732
SMEREKA, P: Kinetic theory for bubbly flow - II: Fluid dynamic limit, 9A1116
- Kinetic theory for bubbly flow - I: Collisionless case, 9A1115
SMEULDERS, JBAF: Multipass rheometer, 4A914
SMIDT, S: Bending of curved sandwich beams, 7A948
- Bending of curved sandwich beams: A numerical approach, 11A503
SMIGIELSKI, P: Stress determination by speckle interferometry (French), 4A774
SMIRNOV, AV: Development of a technique to calculate the propeller jet effect on transonic flow around a wing, 10A1088
SMIRNOV, EV: Improvement of the efficiency of casting machines, 5T581
SMIRNOV, LG: Investigation of stresses in composite shells on the basis of methods of asymptotic synthesis due to various local actions (Russian), 8A497
SMIRNOV, VV: Dynamics of high-speed rotors running in bearings with floating nonrotating bushings, 9A1011
SMIRNOV, YP: Parametric synthesis of mechanisms with allowance for sliding friction, 3A847
SMIRNOVA, VB: Frequency-Domain Methods for Nonlinear Analysis: Theory and Applications - Nonlinear Science: Series A, Vol 9, 11N14
SMITH , JP: Active control of low-frequency broadband jet engine exhaust noise, 9A371
SMITH , NSA: Comparison of CMC and PDF modeling predictions with experimental nitric oxide LIF-Raman measurements in a turbulent H_2 jet flame, 2A1183
SMITH , S: Longitudinal AC interactions with axial slits in steel pipes, 10A867
SMITH, A: Two-dimensional wall temperature measurements and heat transfer enhancement for top-heated horizontal channels with flow boiling, 4T1180
SMITH, B: Forebody vortex control using nose-boom strakes, 1T1120
SMITH, BF: Overlapping Schwarz methods on unstructured meshes using non-matching coarse grids, 10A46
SMITH, BS: Assessment of translational-torsional coupling in asymmetric uniform wall-frame structures, 2A782
SMITH, C: Effect of solid surfaces on turbulent jet noise, 1A295
SMITH, CE: Mixing analysis of axially opposed rows of jets injected into confined crossflow, 2A966
SMITH, CF: Installed F/A-18A inlet flow calculations: A grid study, 4A1044
- Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, 11A967
- Comparison of F/A-18A inlet flow analyses with flight data: Part 1, 11A966
SMITH, CJ: Affordable nacelle technologies for future turbofans, 10A1403
SMITH, CW: Analysis of induction plasma deposition dynamics for control, 5A336
- Mechanical properties of tendons: Changes with sterilization and preservation, 9A1442
SMITH, D: Computational environment for exhaust nozzle design, 11A968
SMITH, DJ: Analytical and FE predictions of residual stresses in cold worked fastener holes, 3A465
- Assessment of residual-stress measurements around cold-worked holes, 5A458
- Creep deformation and rupture of low alloy ferritic weldments under shear loading, 8A407
- Development and experimental validation of the deep hole method for residual stress measurement, 11A434
SMITH, DL: Introduction to Dynamic Systems Modeling for Design, 10R17
SMITH, E: Leak-before-break: Estimating the leakage area associated with a through-wall circumferential crack in a steel piping system, 1A782
- Operation of a reactor pressure vessel in a regime where cleavage might occur: The effect of a locally embrittled zone, 1T1418
- Non-uniqueness of the maximum load J-value with a cohesive zone model of an elastic-softening solid, 2A634
- Comparison of the various K based procedures for characterizing the failure of an elastic softening solid, 2A626
- Effect of inertial loadings on the criterion for stable growth of a crack in a piping system, 9A832
- Effect of a superimposed constant load on the criterion for stable crack growth, 9A745
- Relationship between the normal operation temperature for a nuclear reactor steel pressure vessel and the onset of upper shelf temperature, 10A1448
- Threshold stress criterion for delayed hydride crack initiation at a blunt notch in zirconium alloys, 10A1449
SMITH, EA: Airflow through beds of cereal grains, 9A1361
- Pressure and velocity of air during drying and storage of cereal grains, 11A1323
SMITH, EH: High-angle-of-attack wind-tunnel investigation of a multimission vehicle, 1T1108
SMITH, ER: Acoustic scattering from a rigid tapered finite parabolic cylinder, 3A270
SMITH, FT: Short-scale effects on model boundary-layer spots, 1A1043
- Vortex-wave interactions - Part 1: Nonsymmetrical input and cross-flow in boundary layers, 7A1117
- Onset of instability in unsteady boundary-layer separation, 11A978
- Composite, Navier-Stokes, and Euler unsteady-flow computations in boundary layers, 12A1100
SMITH, GB: Three-dimensional reconstruction of coherent structures using image processing techniques, 4T1083
SMITH, GE: Supersonic-inlet boundary-layer bleed flow, 9A1154
- Fundamental factors in the design of a fast-responding methanol-to-hydrogen steam reformer for transportation applications, 12A1326
SMITH, GP: Improving teleseismic event locations using a 3D earth model, 12A1380
SMITH, HA: Formulation and solution of the nonlinear, damped eigenvalue problem for skeletal systems, 2A127
- Application of k-step Lanczos method to extract the interior eigenvalues of skeletal systems, 7A179
- Model to incorporate architectural walls in structural analyses, 10A926
SMITH, ID: Unifying theory of least-squares Pade model reduction methods, 12T334
SMITH, IK: Development of the trilateral flash cycle system - Part 3: The design of high-efficiency two-phase screw expanders, 8A1032
SMITH, J: Effects of fatigue precracking on stretch zone formation, 2A630
- Measurement of crack tip strains using neutron diffraction, 4A763
SMITH, JL: Geotextile characterization and pore-size distribution - Part II: A review of test methods and results, 12A660
SMITH, JP: Buckling of shear deformable plates using the p-version of the FEM, 1A655
- Control of broadband acoustic radiation with adaptive structures, 9A375
SMITH, JS: Shop floor controller class for computer - integrated manufacturing, 2A348
SMITH, JW: Use of double U-bar stirrups in seismically loaded reinforced concrete beam-column joints, 3A789
SMITH, K: Fabrication of vascular replicas from magnetic resonance images, 5A1392
SMITH, KC: CAD-based off-line planning for active vision, 2A307
- Des-theory-based hybrid supervisory control system for manufacturing systems, 10A500
SMITH, KM: Investigation of large-scale structures in supersonic planar base flows, 11A913
SMITH, KS: Torsional vibrations in electrical induction motor drives during start-up, 10A233
SMITH, LV: Micro-mechanics parameters controlling the strength of braided composites, 1A566
SMITH, MC: Continuity properties of LQG optimal controllers, 2A260
SMITH, MJ: Acceleration techniques for an aeroelastic Euler method for a hovering rotor, 9A324
SMITH, MJC: Simulating moth wing aerodynamics: Towards the development of flapping-wing technology, 12A1477
SMITH, MR: Case for a general method of kinematic analysis of plane mechanisms based on equations of constraint, 4A100
SMITH, MW: Application of absorption filter planar Doppler velocimetry to sonic and supersonic jets, 8A1047
SMITH, O: Numerical simulation of steady-state dump combustor operation with auxiliary fuel injection, 5A1239
SMITH, OI: In-flight imaging of transverse gas jets injected into compressible crossflows, 4A1051
SMITH, P: Critical forcing for homoclinic and heteroclinic orbits of a rotating pendulum, 7A106
SMITH, PA: Rheological characterization of Hanford neutralized current acid waste simulant slurries, 12A1011
SMITH, PD: Blast wave simulation using AUTODYN2D: A parametric study, 2A189
SMITH, PJ: Modeling effects of soot and turbulence-radiation coupling on radiative transfer in turbulent gaseous combustion, 7A1334
SMITH, R: Airworthiness of composite repairs: Failure mechanisms, 2A443
- Computational model of flexible membrane wings in steady laminar flow, 3A986
- Mathematical model for the density-augmented spreading of a particle-laden discharge in a turbulent shallow-water flow, 4A1361
- Horizontal fractionation of rising and sinking particles in wind-affected currents, 12A1439
SMITH, RE: Grid sensitivity and aerodynamic optimization of generic airfoils, 5A1018
SMITH, RH: Spaceflight Mechanics 1996, Parts I and II - Advances in the Astronautical Sciences, Vol 93, 12N10
SMITH, RJ: Application of homotopic methods to static flexible pipe and cable problems, 9A568
- Automatic grid generation and flow solution for complex geometries, 11A46
SMITH, RL: Exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics, 2A424
SMITH, RW: Simulation of dynamic fracture of an impact-loaded brittle solid: Microcracked and polycrystalline solids, 2A169
SMITH, S: Computational fluid dynamics applied to ejector heat pumps, 7A1271
SMITH, SD: Development and experimental validation of the deep hole method for residual stress measurement, 11A434
SMITH, TF: Optimal control of HVAC systems using DDP and NLP techniques, 8A336
SMITH, WA: Preconditioning applied to variable and constant density flows, 4A998
SMITH, WR: Dynamic simulation of the conforming shell gas journal bearing, 4A854
SMITH, WW: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260
SMITHSON, SB: Instantaneous polarization attributes and directional filtering, 11A1373
SMITS, AJ: Measurements of the mean heat transfer in a shock wave-turbulent boundary layer interaction, 6A949
SMOLANOFF, J: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320
SMOLINSKI, P: Subcycling integration with non-integer time steps for structural dynamics problems, 8A163
SMOLNIKOV, BA: Skateboard dynamics, 12A92
SMOLORZ, S: Focusing PVDF transducers for acoustic microscopy, 10A860
SMOOKE, MD: Detailed chemistry modeling of laminar diffusion flames on parallel computers, 3A1238
- Computational and experimental studies of laser-induced thermal ignition in premixed ethylene-oxidizer mixtures, 5A1210
SMUTZ, WP: Accuracy of a video strain measurement system, 10A1482
SMYRLIS, YS: Singular function boundary integral method for the Laplace equation, 8A60
SMYSHLYAEV, VP: Effective relations for nonlinear dynamics of cracked solids, 6A681
- Role of strain gradients in the grain-size effect for polycrystals, 8A399
SMYTH, JR: Ceramic gas turbine technology development, 5A1269
SMYTH, NF: Soliton interaction for the extended Korteweg-de Vries equation, 12A243
SNAKOWSKA, A: Modal analysis of the acoustic field radiated from an unflanged cylindrical duct: Theory and measurement, 11A250
SNECK, HJ: Turbine oil reservoir study, 2T1060
SNEDDON, GE: Complex mapped matrix methods in hydrodynamic stability problems, 3A965
SNELL, SA: Feedback design for unstable plants with saturating nonlinearities: Single-input, single-output, 6A300
SNIATYCKI, J: Geometry of nonholonomic constraints, 10A71
SNIDER, AD: Reply: Quest for the optimum longitudinal fin profile, 4T1223
SNIDER, DM: Structure of shear-driven mixing with an unstable thermal stratification, 9A1074
- Simulation of mixing layers driven by compound buoyancy and shear, 12A1152
SNIDLE, RW: Conditions for scuffing failure of ground and superfinished steel disks at high sliding speeds using a gas turbine engine oil, 5T790
- Thrust cone lubrication - Part 1: Elastohydrodynamic analysis of conical rims, 11T1078
SNIEDER, R: Perturbation theory for travel times, 1A349
- Attenuation, dispersion, and anisotropy by multiple scattering of transmitted waves through distributions of scatterers, 5A269
- Fast, efficient calculation of rays and travel times with ray perturbation theory, 6A1248
SNIEZEK, L: Fatigue crack behavior in carburized and laser-hardened components made of 18HGM steel, 10A729
SNOW, AW: Influence of matrix properties on fragmentation test, 3A695
SNYCERSKI, M: Structure of the precision winding package, 6A371
SNYDER, B: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
SNYDER, DB: Broadband receiver response from dual-streamer data and applications in deep reflection seismology, 6A1246
SNYDER, RD: Effect of five prosthetic feet on the gait and loading of the sound limb in dysvascular below-knee amputees, 6A1373
SNYDER, SD: Use of optimally shaped piezoelectric film sensors in the active control of free field structural radiation - Part I: Feedforward control, 5A281
- Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate, 7A169
- Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feedforward control, 9A370
SNYDER, TJ: Experimental examination of forced-convection subcooled nucleate boiling and its application in microgravity, 8T1128
SNYMAN, JA: Feasible descent cone methods for inequality constrained optimization problems, 10A878
- Pseudo-discrete rounding method for structural optimization, 12A826
SO, A KWOK WAI: Nonlinear FE analysis of glass panels, 12A573
SO, ATP: Thyroid diagnosis by thermogram sequence analysis, 3A1415
SO, H: Wear behavior of laser-clad stellite alloy 6, 10A976
SO, JINYOUNG: Accurate vibration frequencies of circular cylinders from 3D analysis, 3A114
- Comparisons of vibration frequencies for rods and beams from 1D and 3D analyses, 3A116
SO, K: Improvements on belt machined surface flatness by using fuzzy inference based on a simulational method, 1A724
SO, RMC: Explicit algebraic heat-flux model for the temperature field, 4A1085
SOAMES JOB, RF: Sources and effects of low-frequency noise, 10A370
SOARES, CG: Compressive strength of rectangular plates under biaxial load and lateral pressure, 5A527
- Reliability methods for ship structural design, 6A737
- Collapse strength of rectangular plates under transverse compression, 7A658
- Dynamic response of rectangular plates of composite materials subjected to impact loads, 7A155
SOBACHKIN, AA: Short nozzles for rocket engines, 6A961
SOBCZAK, E: Surface studies of $Re_3Fe_5O_{12}$ garnets, $ReFeO_3$ orthoferrites and $ReVO_4$ orthovanadates, 9T990
SOBCZYK, K: Modeling of curvilinear random fatigue crack growth, 2A603
- Random microstructural effects on fatigue accumulation, 6A629
- Dynamics of structural systems with spatial randomness, 8A95
SOBEY, RJ: Triple annual maximum series in wave climate analyses, 7T268
SOBHAN, CB: Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, 8A1076
SOBIECZKY, H: Waverider design for generalized shock geometries, 5A907
SOBIERAJSKI, E: Experimental investigations of free vibrations of cylinder in water near a plane bottom, 3T901
SOBIESKI, IP: Variable-complexity genetic algorithm for topological design, 4A862
SOBIESZCZANSKI-SOBIESKI, J: Optimization of coupled systems: A critical overview of approaches, 6T290
- Optimization for minimum sensitivity to uncertain parameters, 12A821
SOBOL', BV: Efficient approach to constructing discontinuous solutions of mechanical problems for bodies of finite size, 10A517
SOBOLEV, GA: Unstable steam-water convection as possible trigger to earthquakes, 3A1316
SOBOLEV, VV: Powder particle structure formation during solidification in the process of metal atomization, 6A1171
- Dynamic processes during in-flight motion of Cr_3C_2-NiCr powder particles in high velocity oxy-fuel (HVOF) spraying, 7A1086
SOBOLEWSKI, R: Finite element analysis of fractured tibia treated with ZESPOL stabilizer, 10A1481
SOBOTA, P: Analytical determination and computer investigation of loading distribution of drives of an armoured face conveyor with different number chain sprockets' teeth (Polish), 3A840
SOBOTKA, Z: Characterization of single particles, particulate materials and two-phase bodies, 1A1351
- Free vibrations of viscoelastic orthotropic shallow shells, 11A122
SOBOYEJO, WO: Cyclic fatigue and fracture behavior of a titanium alloy metal matrix composite, 2A576
- Investigation of crack closure and the propagation of semi-elliptical fatigue cracks in Q1N (HY80) pressure vessel steel, 6A600
SOCIE, DF: Pseudo stress and pseudo strain based approaches to multiaxial notch analysis, 2A395
- Nonproportional low cycle fatigue criterion for type 304 stainless steel, 5A597
SOCOLIUC, M: Experimental study and modeling of dodecane ignition in a diesel engine, 3A1203
SOCZKIEWICZ, E: Penetration depth of Rayleigh surface waves, 11T241
SODA, H: Thick-aluminum-coated optical fibers: Fabrication and sensor application, 11A351

SODEN, PD: Effects of radial stresses on the strength of thin-walled filament wound GRP composite pressure cylinders, 4A494

SODERLUND, E: Analysis of Berkovich indentation, 3A431

- Controlled indentation: A general approach to determine mechanical properties of brittle materials, 8A690

SODHI, MS: Surface roughness monitoring using computer vision, 12A789

SODHI, RS: Kinematic synthesis of adjustable moving pivot four-bar mechanisms for multi-phase motion generation, 9A1022

SOEDEL, W: Problem of oscillatory walk of automatic washing machines, 6A169

SOEIRO, AV: Optimization of laminated composite structures using a bilevel strategy, 7A908

SOEJIMA, M: Effect of lubricating oils on piston ring friction and scuffing, 10A1386

SOEWONO, E: Fourth-order nonlinear systems arising in combined free and forced convection flow of a second-order fluid, 10A1263

SOFIALIDIS, D: Wall suction effects on the structure of fully-developed turbulent pipe flow, 9A1151

SOFRONIS, P: Influence of mobility of dissolved hydrogen on the elastic response of a metal, 1A447

- Modeling of hydrogen transport and elastically accommodated hydride formation near a crack tip, 7A822
- Numerical analysis of the interaction of solute hydrogen atoms with the stress field of a crack, 9A802

SOGA, K: Pulse transmission system for measuring wave propagation in soils, 9A279

SOGABE, Y: Finite element analysis of dynamic behavior of viscoelastic materials using FFT, 7A19

SOH, A-K: Improved method for determining contact stresses, 11A426

SOH, Al-KAH: Stress concentrations of K tubular joints subjected to basic and combined loadings, 9A958

SOH, C-K: Improved method for determining contact stresses, 11A426

SOH, CHEE-KIONG: Stress concentrations of K tubular joints subjected to basic and combined loadings, 9A958

SOH, WK: Experimental investigation of buoyant transient cavity collapse near rigid cylindrical boundaries, 9A1129

SOH, YC: Control of constrained manipulators with flexible joints, 7A440

SOH, YENG CHAI: Robust control of a manipulator performing constrained motion with uncertainties in the constraint functions, 2A346

SOHN, MIN-SEOK: Comparative study of dynamic and static delamination behavior of carbon fiber-epoxy composite laminates, 4A482

SOHR, H: Asymptotic structure of plane steady flow of a viscous fluid in exterior domains, 1T985

SOHRAB, SH: Flame propagation and extinction in spatially-periodic longitudinal velocity fields, 5A1215

SOICHER, NE: Peculiar set of problems in linear structural mechanics, 5A494

SOILEMES, A: Predicting single sided natural ventilation rates in buildings, 4A1226

SOILEMES, AT: Study of the turbulent characteristics of the near-wake field of a medium-sized wind turbine operating in high wind conditions, 1A1434

SOIZE, C: Vibration damping in low-frequency range due to structural complexity: A model based on the theory of fuzzy structures and model parameters estimation, 5A111

SOJKA, L: Annealing effect on grain texture and magnetic properties of 0.13 mm 3% Si-Fe strips, 9T653

SOJKA, PE: Holographic investigation of the near-nozzle structure of an effervescent atomizer-produced spray, 5T1112

SOKOL, L: Lateral stabilization by steel sheeting of structural members, 10A902

- Stability of cold formed purlins braced by steel sheeting, 11A775

SOKOL-SUPEL, J: Elastic-plastic plates sealing a liquid: Tests and analysis, 9A601

SOKOLOV, AV: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303

SOKOLOV, M: Optimal allocation of a heat-exchanger inventory in heat driven refrigerators, 1A1154

- Thermodynamic optimization of solar-driven refrigerators, 11A1430

SOKOLOV, VY: Probabilistic assessments of the seismic hazard in northern Armenia: Spitak region, 11A1399

SOKOLOVA, SP: US and Russian thermal control coating results in low Earth orbit, 7A992

SOKOLOVSKY, YI: Thermal stresses in the infinite transversally-isotropic medium with inner elliptical crack, 7A1287

SOKOLSKY, AG: Hyperboloidal precession of a dynamically symmetric satellite construction of normal forms of the Hamiltonian, 7A301

SOL, H: Determination and parametric study of material damping in fiber reinforced plastics: A review, 6A148

SOLAN, A: Stability of confined swirling flow with and without vortex breakdown, 9A1176

SOLDATKIN, VM: Detection, alarm and display chains in data-based control systems of in-flight safety, 6A333

- Fundamentals of designing information-control system during ensuring motion safety of surface effect vehicle, 8A311
- Information support for system of avoiding critical modes of surface effect vehicle motion, 8A312

SOLDATOS, KP: Comparative dynamic studies for symmetric cross-ply circular cylindrical shells on the basis of a unified shear deformable shell theory, 4A174

- Three-dimensional vibration of laminated composite plates and cylindrical panels with arbitrarily located lateral surfaces point supports, 6A139

SOLDEK, J: Implementation of a new coding scheme for ray tracing subdivision algorithms, 10A70

SOLECKI, R: Wave propagation in fluid-loaded, transversely isotropic cylinders - Part I: Analytical formulation, 9A311

- Wave propagation in fluid-loaded, transversely isotropic cylinders - Part II: Numerical results, 9A312

SOLENKO, SD: Interrelation with cylindrical cavity of nonstationary spherical waves radiated by the interior source, 7A236

SOLI, G: Clementine dosimetry, 5A741

SOLIMAN, HM: Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, 5A915

SOLIMAN, HO: Stochastic response of piping systems with flexible supports, 7A143

- Response of overground pipelines to random ground motion, 11A1406

SOLIMAN, MS: Jump phenomena resulting in unpredictable dynamics in the driven damped pendulum, 10A106

- Global stability properties of equilibria, periodic, and chaotic solutions, 11A88

SOLLERO, P: Anisotropic analysis of cracks in composite laminates using the Dual BEM, 1A805

SOLO, V: Deterministic adaptive control with slowly varying parameters: An averaging analysis, 11A295

SOLODILOV, L: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391

SOLOGUB, IS: Enhancement of heat transfer to a boiling subcooled liquid by vibrations of a heater, 1A1281

SOLOMON , PR: FT-IR measurements of emissivity and temperature during high flux solar processing, 7A1260

SOLOMON, HD: Energy approach to the fatigue of 60/40 solder - Part I: Influence of temperature and cycle frequency, 3A1178

- Energy approach to the fatigue of 60-40 solder - Part II: Influence of hold time and asymmetric loading, 12T714

SOLOMON, MJ: Flow past a sphere in polystyrene-based Boger fluids: The effect on the drag coefficient of finite extensibility, solvent quality, and polymer molecular weight, 8A896

SOLONIN, SM: Tribological properties of titanium-nickel compound at dry friction, 6A787

SOLONNIKOV, VA: Evolution free boundary problem for equations of motion of viscous compressible barotropic self-gravitating fluid, 9T1101

SOLOV'EV, VS: Enhancement of internal damping of pneumatic springs of vibration isolation systems by means of introduction of negative-stiffness elements, 6A335

- Digitally controlled invariant active vibration-isolation system for microgravity protection, 7A397

SOLOVEI, YB: Thermal and hydraulic characteristics of microchannel porous structures, 10A1270

SOLOVIEV, AV: Evolution of cool skin and direct air-sea transfer coefficient during daytime, 8T1363

SOLTANI, M: Particle detachment from rough surfaces in turbulent flows, 5A923

SOLTI, JP: Modeling behavior of cross-ply ceramic matrix composites under quasi-static loading, 12A757

SOLYANNIKOV, VA: Formation of programs for equivalent laboratory tests of turbine blades, 10A619

SOM, SK: Evaporation of multicomponent liquid fuel droplets, 11A1179

SOMAN, NA: Two-dimensional formulation for path-placement in the workcells of planar 3-R robots, 5A369

- Limits at ξ_3 in a new formulation for path-placement in the workcells of planar 3-R robots, 5A365

SOMASUNDARAM, S: Proc of 1995 Intersociety Energy Conversion Eng Conf, July 30 - Aug 4, 1995, Orlando FL, 1N36

SOMERDAY, BP: Elevated temperature fracture particulate-reinforced aluminum - Part II: Micromechanical modeling, 2A411

SOMERS, DM: Natural-laminar-flow airfoil for general-aviation applications, 1A1103

SOMERS, JA: Numerical simulation of free convective flow using the lattice-Boltzmann scheme, 5A1130

SOMERS, LMT: Numerical study of a premixed flame on a slit burner, 5A1258

SOMEYA, T: Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, 6A1045

SOMKUARNPANIT, S: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562

SOMMEIJER, BP: Implementation and performance of the time integration of a 3D numerical transport model, 1A1437

SOMMER III, HJ: Beam element structural dynamics modification using experimental modal rotational data, 5A116

SOMMER, JL: Forced unidirectional infiltration of deformable porous media, 9A1047

SOMMER, TP: Explicit algebraic heat-flux model for the temperature field, 4A1085

SOMMERFELDT, SD: Fast adaptive noise control algorithm based on the lattice structure, 6A253

SOMMERIA, J: Classification of self-organized vortices in 2D turbulence: The case of a bounded domain, 11A999

- Internal waves, turbulence, and mixing in stratified flows: A report on Euromech Colloquium 339, 11A995

SON, JS: Comparison of contact sensor localization abilities during manipulation, 12A433

SON, SF: Quasi-steady combustion modeling of homogeneous solid propellants, 1A1336

- Radiation-augmented combustion of homogeneous solids, 5A1261

SON, YS: Mixed convection in horizontal channels with discrete material and top exhaust, 1A1205

SONDERGARD, O: New piezoresistive pressure transducer principle with improvements in media compatibility, 10T467

SONE, A: Method of simultaneous analysis of waves propagating in multilayered media by BEM, 12A222

SONE, Y: Flow induced around a sphere with a non-uniform surface temperature in a rarefied gas, with application to the drag and thermal force problems of a spherical particle with an arbitrary thermal conductivity, 1T1030

SONG , HUAMAO: High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), 3A61

SONG , JIANWEI: Location and modification of errors in structural dynamic models (Chinese), 3A173

SONG , QIGEN: Finite strip method for materially nonlinear analysis of reinforced concrete slabs and shells (Chinese), 9A29

SONG , TIANXIA: Semi-discrete analysis for stability of large conical shell stiffened with longitudinal ribs (Chinese), 9T633

SONG , X: Fatigue crack propagation life analysis of solder joints under thermal cyclic loading, 7A776

SONG, B: Heat transfer and pressure drop characteristics of HFC quaternary refrigerant mixtures inside horizontal enhanced surface tubing, 10A1277

SONG, BENXIANG: Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), 7A909

SONG, CHONGMIN: Static stiffness of unbounded soil by FEM, 9A38

- Consistent infinitesimal FE cell method: 3D vector wave equation, 12A231

SONG, DATONG: New method for computing the upper and lower bounds on frequencies of structures with interval parameters, 2T151

SONG, DONG-YEUL: Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, 9A531

SONG, G: New approach to robust position-force control of flexible-joint robot manipulators, 11A393

SONG, H: Study on personal noise exposure in China, 12A299

SONG, IS: Improved method for the application of blank-holding force considering the sheet thickness in the deep-drawing simulation of planar anisotropic sheet, 3A598

SONG, JH: Ultrafine ceramic powder injection moulding: The role of dispersants, 6A868

SONG, JIAZONG: Lifting behavior of multi-thread screw ship unloader (Chinese), 8A1033

SONG, JINBAO: Calculation of eigenvalues for the stationary perturbation of Couette-Poiseuille flow, 6A960

SONG, KONG-JIE: Influence of flexible foundation on isolator wave effects, 6A174

SONG, LIYAN: Description of the third law of thermodynamics (Chinese), 8A1059

SONG, O: Integrated structural tailoring and control using adaptive materials for advanced aircraft wings, 7A1165

SONG, OHSEOP: Bending vibrations of adaptive cantilevers with external stores, 8A150

SONG, PENGSHENG: Thermodynamic properties of aqueous mixtures of LiCl and Li_2SO_4 at different temperatures, 1A1160

SONG, SHIN-MIN: Study of reactional force compensation based on three-dof parallel platforms, 4A403

SONG, SJ: Measurement of turbine blade-tip rotordynamic excitation forces, 5A1058

SONG, SR: Optimum stacking sequence of composite laminates for maximum strength, 1A559

SONG, T: Bed-shear stress in non-uniform and unsteady open-channel flows, 4T916

- Velocity and turbulence distribution in unsteady open-channel flows, 8T873

SONG, TAE-HO: Stability of a fluid layer with uniform heat generation and convection boundary conditions, 11T1129

SONG, WENZHONG: Noise active control study based on control theory for distributed parameter systems (Chinese), 4A324

SONG, XI J: Source characteristics of the January 17, 1994 Northridge, California, earthquake from regional broadband modeling, 6A1233

- Source estimation of finite faults from broadband regional networks, 12A1373

SONG, XIAOLONG: Crack rotation factor and dynamic fracture measurement, 4A761

SONG, XIGENG: Relation between engine noise and crankshaft vibrations (Chinese), 9A234

SONG, XQ: Research on reducing erosion by adding ribs on the wall in particulate two-phase flows, 11A649

SONG, Y: Conjugate heat transfer and particle transport in outside vapor deposition process, 1A1165

- Stability and vibration of a rotating circular plate subjected to stationary in-plane edge loads, 9A143

SONG, YAXIN: Method for analyzing the dynamic response of a structural system with variable mass, damping and stiffness (Chinese), 11T98

SONG, YD: Partial state feedback control with application to aircraft wing vibration damping, 6T165

- Adaptive motion tracking control of robotic manipulators: Non-regressor based approach, 8A360

SONG, YONGCHEN: New measuring technique of diesel spray (Chinese), 8A936

SONG, YONGFA: Calculation of normal section strength of unbonded partially prestressed concrete beams with high strength concrete (Chinese), 9A928

SONG, YONGZHONG: Chaotic waveform relaxation methods for dynamical systems, 12A111

SONGBE, J-P: Numerical study of double-diffusive natural convection in a porous cavity using the Darcy-Brinkman formulation, 7A1231

SONN, HW: Transient thermoelastic analysis of composite brake disks, 5A1188

SONN, HYEON-WU: Axisymmetric analysis of transient thermoelastic behaviors in composite brake disks, 6A1161

SONNENFROH, DM: Measurements of OH and H_2O for reacting flow in a supersonic combusting ramjet combustor, 4A1254

SONNTAG, R: Gas and Steam Properties, 5N29

SONODA, K: Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), 5A515

- Increase in life of CBN wheel for gear grinding, 9T714

SONODA, T: Vibration, buckling and dynamic stability of a non-uniform rectangular cantilever plate with thermal gradient resting on a Pasternak foundation (Japanese), 1A662

- Development of novel material shield-cuttable tunnel-wall system (Japanese), 4T821

SONOZAKI, S: Profile measurement with no standard: Verification experiment for profile measurement along a circle (Japanese), 7A484

SONSOZ, A: Service-life estimation of extrusion dies by numerical simulation of fatigue-crack-growth, 8A579

SONTAG, ED: Smooth converse lyapunov theorem for robust stability, 7A372

SONTI, VR: Equivalent forces and wavenumber spectra of shaped piezoelectric actuators, 4A395

- Dynamic effects of piezoactuators on the cylindrical shell response, 9A649
- Modeling of stochastic dynamic systems using Hamilton's law of varying action, 10A130
- Curved piezoactuator model for active vibration control of cylindrical shells, 10A882

SONZOGNI, V: Note on numerical experiments in transverse vibrations of annular circular plates, 9T202

- Effect of Poisson's ratio on the fundamental frequency of transverse vibration and buckling load of circular plates with variable profile, 12A160

SOOD, D: Integration of magnetic bearings in the design of advanced gas turbine engines, 5A1281

SOOM, A: Measured transitions between sticking and slipping at lubricated line contacts, 5A775

SOONG, CY: Theoretical analysis for axisymmetric mixed convection between rotating coaxial disks, 8A1104

- Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, 12A1214

SOONG, DATONG: Displacement bound estimation for structures with an interval description of uncertain parameters, 7A921

SOONG, TA WEI: Distribution of turbulent velocity fluctuations in a natural river, 4A926

- Return flow in rivers due to navigation traffic, 6T888

SOONG, TT: Seismic behavior of reinforced concrete frame with added viscoelastic dampers, 1A1397

- Seismic behavior of steel frame with added viscoelastic dampers, 2A1245
- Full-scale viscoelastically damped steel frame, 2A1254
- Design of energy dissipation devices based on concept of damage control, 6A1278
- Behavior of metallic plate dampers in seismic passive energy dissipation systems, 7A1375
- Design spectra for actively controlled structures based on convex models, 9A896
- Maximum structural response using convex models, 10A129

SOOS, E: Resonance and stress concentration in a prestressed elastic solid containing a crack: An apparent paradox, 7A814

SOPHIANOPOULOS, D: Effect of a moving mass and other parameters on the dynamic response of a simply-supported beam, 10A145

SOPHIANOPOULOS, DS: Dynamic buckling mechanism of single-dof dissipative and non-dissipative autonomous systems, 12A630

SORDALEN, OJ: Feedback control of a non-holonomic underwater vehicle with a constant desired configuration, 7A401

SOREK, S: Waves propagation in saturated rigid porous media: Analytical model and comparison with experimental results, 5A1305
- Evolution of the balance equations in saturated thermoelastic porous media following abrupt simultaneous changes in pressure and temperature, 5A1296
- Model for solute transport following an abrupt pressure impact in saturated porous media, 9A1355
- Simple waves in saturated porous media - I: The isothermal case, 11A920

SORENSEN, BF: Cracking and spalling of multilayered chromium coatings, 3A668

SORENSEN, DC: Formulation and solution of the nonlinear, damped eigenvalue problem for skeletal systems, 2A127
- Application of *k*-step Lanczos method to extract the interior eigenvalues of skeletal systems, 7A179

SORENSEN, JN: Model for unsteady rotor aerodynamics, 5T1004

SORENSEN, TC: Spacecraft autonomous operations experiment performed during the Clementine lunar mission, 5A754

SORENSEN, TO: Comparative wear mapping techniques - I: Friction and wear mapping of tungsten carbide-silicon carbide, 12A877

SORGE, F: Flexural vibrations of sandwich plates, 2A117
- Qualitative-quantitative approach to V-belt mechanics, 8A802

SORIA, A: Assessment of some iterative methods for non-symmetric linear systems arising in computational fluid dynamics, 5A904

SORIA, J: Laminar boundary layer receptivity to transverse structural vibration, 3A212
- Examination of the flow around a hot-wire probe using particle image velocimetry, 4A1127

SORIANO, HL: Generalized linear relationship among displacements of frame structures, 1A916

SORICK, P: Gravitational field of topographic-isostatic masses and the hypothesis of mass condensation - II: The topographic-isostatic geoid, 8A1329

SORIN, V: Accuracy study of velocity estimation in 3D layered models, 1A1376

SORLI, M: Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, 4A409

SOROKIN, AV: Spatial dimensional analysis of the radial clearances between cylindrical surfaces, 10T1022

SOROKIN, PA: Automated detection of surface flaws by the methods of correlation analysis, 7A802

SOROUSH, M: Continuous-time formulation of non-linear model predictive control, 8A299

SOSA, H: Dynamic representation formulas and fundamental solutions for piezoelectricity, 1A681

SOSNOWSKI, W: Parameter sensitivity analysis in frictional contact problems of sheet metal forming, 1A719

SOSORO, M: Thermal imaging of hazardous organic fluids in concrete, 4A447

SOTERIOU, MC: Application of the infinite reaction rate model in the simulation of the dynamics of exothermic mixing layers, 2A1188

SOTIROPOULOS, BA: Large DHW solar systems with distributed storage tanks, 3A1376

SOTIROPOULOS, DA: Brewster angle for fluid-solid interfaces, 1A249
- Propagation zones of weakly bonded layered materials, 4T192

SOTIROPOULOS, F: Numerical investigation of laminar flows through 90-degree diversions of rectangular cross-section, 8A952

SOTTOMAYOR, A: Non-Newtonian EHL model for traction evaluation in a roller-inner ring contact in a roller bearing, 12A1191

SOTTOS, NR: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
- Relationship between interphase composition, material properties, and residual thermal stresses in composite materials, 3A1184
- Transient thermal deformations of the interphase in polymer composites, 5A1196

SOUBASSAKIS, EN: Analysis of the thermal performance of dynamic solar systems, 8A1164

SOUCHET, R: Stress intensity factors in 2D crack problems by using the superimposed meshes method, 10A777

SOUDACK, AC: Dynamics and stability state-space of a controlled inverted pendulum, 10A100

SOUFIANI, A: Analysis of laser beam deviation fluctuations in a turbulent nonisothermal flow and relevance to eq. 2A990

SOUKATCHOFF, P: Mechanical behavior of cementitious matrix composites, 10A570

SOULI, M: Finite element method for free surface flow problems, 8A206

SOULOS, A: Inverse thermal modeling using TLM, 6A1128

SOUNDALGEKAR, VM: Finite-difference analysis of the stability of flow in a curved channel wide-gap problem, 1A45
- Effects of mass transfer on transient free convection flow past an infinite vertical isothermal plate, 2A1091
- Mass transfer effects on flow past an impulsively started infinite vertical plate with constant mass flux: An exact solution, 8A1245
- Transient free convection flow of an elastoviscous fluid past an infinite vertical plate, 9A1256

SOUNDRA-NAYAGAM, M: Unstable flow in centrifugal fans, 9A1236

SOURCEMARIANADIN, A: Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, 8A926

SOUSA, L: Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement, 11A579

SOUSA, LG: Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, 8A719

SOUTHCOTT, PH: Finite layer analysis of vertically loaded piles and pile groups, 7A705

SOUTHGATE, HN: Effects of wave chronology on medium and long term coastal morphology, 7T1051

SOUTHWARD, SC: Control effort weighting in feedforward adaptive control systems, 10A364

SOUTIS, C: Post-impact compressive behavior of low temperature curing woven CFRP laminates, 1A535
- Failure of notched CFRP laminates due to fiber microbuckling: A topical review, 10A793
- Influence of shear properties and fiber imperfections on the compressive behavior of GFRP laminates, 12A547

SOUVALIOTIS, A: Spectral collocation-domain decomposition method for viscoelastic flow simulations in model porous geometries, 8A1323

SOVIERO, PAO: Panel method formulation for oscillating airfoils in supersonic flow, 2A1020

SOWA-RESAT, M: Kinetic parameters for heterogeneous boron combustion reactions via the cluster beam approach, 9A1320

SOWARD, AM: Influence of surface topography on rotating convection, 11A891

SOWDON, A: Simple method to remove the boundary layer on a ground plate, 3A947

SOWERBY, R: Determination of the optimum blank shape when deep drawing nonaxisymmetric cups, using a FEM: Simplified determination of optimum blank shape and limiting drawing ratio by inverse FE procedure, 3A851
- Blank development and the prediction of earing in cup drawing, 8A544

SOWINSKI, B: Methods of solving steady-state and transient vibrations of discretely supported track, 3A144
- Effect of harmonic track alignment and rail wear ratio on the railway vehicle dynamics, 3A158

SOYAMA, H: High-speed observations of highly erosive vortex cavitation using image processing, 5T872
- High-speed observation of ultrahigh-speed submerged water jets, 10A1165

SOZEN, M: Enhanced heat transfer in round tubes with porous inserts, 11A1152

SPACONE, E: Mixed formulation of nonlinear beam FE, 3A528
- Fiber beam-column model for nonlinear analysis of R-C frames - Part I: Formulation, 12A841
- Fiber beam-column model for nonlinear analysis of R-C frames - Part II: Applications, 12A842

SPADACCINI, LJ: Thermal stability and heat transfer characteristics of methane and natural gas fuels, 5A1244

SPADY, BR: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252

SPAID, FW: Hypersonic nozzle - Afterbody experiment: Flowfield surveys, 12A1072
- Hypersonic nozzle-afterbody experiment: Flow visualization and boundary-layer measurements, 12A1073

SPALDING, D: Modeling the muscles of the scapula morphometric and coordinate data and functional implications, 12A1456

SPANG, B: Influence of thermal boundary condition on laminar heat transfer in the hydrodynamic entrance region of circular ducts (German), 10A1250

SPANOS, PD: Computational Stochastic Mechanics - Proc of 2nd Int Conf on Comput Stochastic Mech, Athens, June 1994, 3N5
- Stochastic damage accumulation model for composite laminates, 3A701
- Optimality in the estimation of a MA system from a long AR model for simulation studies, 4A1337
- Modeling of roller cone bit lift-off dynamics in rotary drilling, 5A1346
- Nonlinear system identification in offshore structural reliability, 5A702
- Efficient iterative ARMA approximation of multivariate random processes for structural dynamics applications, 10A58
- Heuristic spectral estimation of bivariate nonstationary processes, 11A160

SPANOS, TJT: Macroscopic capillary pressure, 1A1353

SPARENBERG, JA: Hydrodynamic Propulsion and Its Optimization: Analytic Theory - Fluid Mechanics and Its Applications Series, Vol 27, 4R24

SPARKS, AG: Real structured singular value synthesis using the scaled Popov criterion, 4T344
- Optimal tradeoff between H_2 performance and tracking accuracy in servocompensator synthesis, 4A353

SPARKS, RSJ: Entrainment into 2D and axisymmetric turbulent gravity currents, 8A874

SPARROW, VW: Backscattering from a baffled finite plate strip with fuzzy attachments, 1A322
- Sound propagation simulations using lattice gas methods, 2A219
- Fundamental structural-acoustic idealizations for structures with fuzzy internals, 5A256

SPASIC, DT: Stability of a rigid sphere supported by a thin elastic column, 10A627

SPASISH, Z: Theory and development of computer integrated manufacturing systems, 10A509

SPATHOPOULOS, MP: State-set estimation algorithm for linear systems in the presence of bounded disturbances, 10T401

SPEARRITT, DJ: Torsional vibration control of a flexible beam using laminated PVDF actuators, 12A835

SPECIEL, E: Use of a rate-dependent continuum damage model to describe strain-softening in laminated composites, 5A475

SPECOVIUS-NEUGEBAUER, M: Two-dimensional exterior stokes problem, existence, regularity and decay properties, 10A1071

SPECTOR, AA: Elastic joints containing interfacial cracks, 7A844

SPECTOR, SJ: Representation theorem for linear, isotropic tensor functions, 1T452
- Existence theory for nonlinear elasticity that allows for cavitation, 1A636

SPEDDING, GR: Turbulence, similarity scaling, and vortex geometry in the wake of a towed sphere in a stably stratified fluid, 11A974

SPEDDING, TA: Management of an assembly line: An investigation of product mix using simulation, 12A477

SPEER, TM: Simulation of cooling systems in gas turbines, 11A1044

SPEIGHT, RG: Towards intelligent process control of injection moulding of polymers, 2A332

SPELT, JK: Application of a new constant G load-jig to creep crack growth in adhesive joints, 7A842

SPENCE, A: Radiative exchange between square parallel channels in a concentric monolith structure, 7A1255

SPENCE, AM: Semianalytical sensitivity of Floquet characteristic exponents with application to rotary-wing aeroelasticity, 9A235

SPENCE, J: Radial loading of cylindrical vessels: Influence of large displacements, 8A493
- Radial loading of cylindrical vessels: Influence of attachment rigidity, 8A781
- Analysis of stress concentration factors for stepped plates based on a crack tip stress intensity approach, 11A421

SPENCER JR, BF: Modeling of curvilinear random fatigue crack growth, 2A603
- Random microstructural effects on fatigue accumulation, 6A629
- Reliability analysis of structural components utilizing the strain-life method, 8A601
- Nonlinear control strategies for limiting dynamic response extremes, 8A730
- Dynamics of structural systems with spatial randomness, 8A95

SPENCER, C: Quasi-Monte Carlo integration over $S^2 \times S^2$ for migration × inversion, 12A1367

SPENCER, DB: Designing continuous-thrust low-Earth-orbit to geosynchronous-Earth-orbit transfers, 5A235

SPENCER, MC: Endwall heat transfer measurements in an annular cascade of nozzle guide vanes at engine representative Reynolds and Mach numbers, 11A1063

SPENGLER, B: Simultaneous detection of positive and negative ions from single airborne particles by real-time laser mass spetrometry, 11A1319

SPERA, M: Internal work in generalized hyperelastic materials, 5A389

SPERONI, DL: Functional knee brace alters joint torque and power patterns during walking and running, 8A1448

SPEYER, JL: Robust fault detection filter design, 6A279
- Periodic optimal flight, 12A1170

SPEYER, RF: Performance evaluation of porous radiant gas burners, 1A1372

SPEZIALE, CG: Near-wall integration of Reynolds stress turbulence closures with no wall damping, 3T972
- Freestream matching condition for stagnation point turbulent flows: An alternative formulation, 9A1196

SPICER, JWM: Thermal NDE using microwave sources, 1A861

SPIEGEL, P: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046

SPIESBERGER, J: Diffraction and pulse delay in a structured ocean, 1A303

SPIESBERGER, JS: Kaneohe acoustic thermometer further validated with rays over 3700 km and the demise of the ides of axially trapped energy, 6A237

SPIGA, G: Exact and asymptotic stationary solutions of the semicontinuous Boltzmann equation, 10A1111

SPIGA, M: Friction factor and Nusselt number in flat tubes with rounded edges, 1A1177
- Nusselt numbers in laminar flow for H2 boundary conditions, 7A1206

SPIKES, HA: Mapping shear stress in elastohydrodynamic contacts, 2T1057
- Measurement and modeling of boundary film properties of polymeric lubricant additives, 7T1188
- Infrared and visual study of the mechanisms of scuffing, 8A796
- Boundary film formation by lubricant base fluids, 8T1036
- Role of surface tension and disjoining pressure in starved and parched lubrication, 11T1077
- Additives for fluorosilicone oils at high temperature, 12A1195

SPINA, EF: Transitional Turbulent Compressible Flows - 1995 ASME/JSME Fluids Eng Conf, 2N47

SPIRES, JM: Response of linear time-periodic systems subjected to deterministic and stochastic excitations, 10A132

SPIRIDON, M: Wave transmission and reflection properties of stenoses, 6A1336

SPIRKL, W: Gas heat conduction in evacuated flat-plate solar collectors: Analysis and reduction, 3A1369

SPITTELER, PHJ: Experimental observations on the pressure-dependent polymer melt rheology of linear low-density polyethylene, using a multi-pass rheometer, 10A1052

SPOLIANSKY, D: Decomposition of the time reversal operator: Detection and selective focusing on two scatterers, 9A381

SPORYKHIN, AN: Hamilton-Ostrogradsky principle in nonlinear theory of elasticity under mixed approach (Russian), 7A488

SPOTZ, WF: High-order compact scheme for the steady stream-function vorticity equations, 3A910
- High-order compact formulation for the 3D Poisson equation, 7A49

SPRAUEL, JM: Evaluation of residual stresses in stainless-steel claddings, 2A378

SPRENG, M: Fast computation of the C-space of convex 2D algebraic objects, 4A82

SPRING, SK: Component and procedural improvements for the T-62T-40-7 gas turbine in the LCAC fleet, 10A1393

SPRINGER, GS: Thermochemical and mechanical aspects of composite tape laying, 2A558

SPRINGER, H: Modeling, simulation, and optimization of a printer sled driving system, 3A325

SPUCKLER, CM: Temperature distributions in semitransparent coatings: A special two-flux solution, 6A1137
- Two-flux and diffusion methods for radiative transfer in composite layers, 8T1177

SPURGEON, SK: Sliding mode stabilization of uncertain systems using only output information, 3T331

SPURRIER, J: Assessment of weld mismatching, 8A627

SPYRAKOS, CC: Seismic analysis of towers including foundation uplift, 8A1342

SPYROPOULOS, ET: Evaluation of the dynamic model for simulations of compressible decaying isotropic turbulence, 10A1172

SQUIRE, LC: Interferometric study of organized structures in wakes of circular cylinders, 6A996

SQUIRE, VA: Ocean waves and sea ice, 2A177

SQUIRES, DD: Phase-locked high-speed real-time interferometry system for large amplitude unsteady flows, 6A1058

SRDIC, A: Generation of nearly isotropic turbulence using two oscillating grids, 9A1181

SRDJAK, M: Application of Alfrey's model for the stress-deformation analysis of locknit fabrics, 9A560

SREEKANTH: Study of transpiration cooling over a flat plate at hypersonic Mach numbers, 1T1025

SREENIVASAN, KR: Refined similarity hypotheses for passive scalars mixed by turbulence, 2A992

SREENIVASAN, SV: Displacement analysis of an actively articulated wheeled vehicle configuration with extensions to motion planning on uneven terrain, 12A87
SREEPATHI, LK: Heat transfer during film condensation of R-123 vapor on horizontal integral-fin tubes, 8A1138
SREERAM, V: Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, 8T281
SREESHYLAN, N: Viscoelastic fluid flow over a continuous stretching surface with mass transfer, 4T968
SRESHTA, HA: Surface flows using a modified AC magnetic bridge, 5A674
SRI NAMACHCHIVAYA, N: Approximate feedback linearization: A normal form approach, 12A363
SRICHANDER, R: Efficient schedules for simulated annealing, 1A442
SRIDHAR, MR: Thermal contact conductance of tool steel and comparison with model, 5A1167
- Elastoplastic constriction resistance model for sphere-flat contacts, 8T1162
- Elastoplastic contact conductance model for isotropic conforming rough surfaces and comparison with experiments, 8A1163
- Empirical methods to predict Vickers microhardness, 11A862
SRIDHAR, N: Effect of reinforcement morphology on matrix microcracking, 8A641
SRIDHAR, T: Comparison of constitutive equations for polymer solutions in uniaxial extension, 4A884
SRIDHARAN, K: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
SRIDHARAN, R: Arbitrary squeezing of a viscous fluid between elliptic plates, 11A877
SRIDHARAN, S: Special incremental-iterative solution technique for nonlinear structural analysis including snap-through, 1A679
- Dynamic interactive buckling of ring stiffened composite shells, 3A559
- Dynamic buckling of composite shells, 7A675
SRIKRISHNAN, AR: Experimental study on mixing enhancement by petal nozzle in supersonic flow, 6A967
SRINIVAS, C: Numerical study of a Fourier approximation method for nonlinear gravity waves, 1A237
- Convective heat transfer in axisymmetric porous bodies, 4A1167
SRINIVAS, K: Explicit finite volume spatial marching method for reduced Navier-Stokes equations, 6A924
SRINIVAS, MS: Studies on the behavior of axially loaded tapered piles by the FEM, 5A555
SRINIVAS, S: Active control of vortex breakdown over a delta wing, 2T1007
- Air-environment-creep interaction in a nickel base superalloy, 4A686
- Peristaltic transport of a viscoelastic fluid: A long wavelength approximation, 9A303
SRINIVAS, V: Prediction of tail rotor thrust and yaw control effectiveness, 6A1040
SRINIVAS, YL: Cyclides in geometric modeling: Computational tools for an algorithmic infrastructure, 5A845
SRINIVASA MURTHY, S: HCFC22-based absorption cooling systems - Part III: Effects of different absorber and condenser temperatures, 12A1267
SRINIVASA, AR: Inelastic behavior of solids - Part I: Twinning, 3A458
SRINIVASAN, GR: Evaluation of turbulence models for unsteady flows of an oscillating airfoil, 2A1035
SRINIVASAN, J: Effect of wall emissivities on radiation heat transfer in glass tank forehearths, 6A1132
SRINIVASAN, MA: Investigation of the mechanics of tactile sense using 2D models of the primate fingertip, 9A1459
SRINIVASAN, R: Accurate solutions for steady plane flow in the driven cavity - I: Stokes flow, 1A993
- Unsteady asymptotic solutions of the 2D Euler equations, 11A875
SRINIVASAN, S: Reduction of chloride level in reforced concrete by cathodic polarization technique, 2A595
- Effect of material nonlinearity on buckling and post-buckling of fiber composite laminated plates and cylindrical shells, 4A574
SRINIVASAN, VS: Evalutation of runoff and erosion loss in micro-basins utilizing the hydrodynamic model WESP, 1A976
SRIRAMULU, V: Preliminary investigations of combustion of pulverized coconut shell-based fuel slurries in an oil-fired foundry furnace, 3A1223
- Comparison of high-resolution schemes applied to flows containing strong shocks, 4A48
- Experimental study on mixing enhancement by petal nozzle in supersonic flow, 6A967
SRIRANGARAJAN, HR: Chaotic response of a composite plate, 1A161
- Nonlinear vibrations of cross-ply plates, 2A105
SRIRENGAN, K: Effect of various approximations on predicted progressive failure in plain weave composites, 7A830
SRIVASTAVA, LM: Effects of Poiseuille flow on peristaltic transport of a particulate suspension, 2A921
SRIVASTAVA, R: Time-marching Euler analysis of ducted-propellers, 6A1042
- Flutter analysis of propfans using a 3D Euler solver, 8A225
SRIVASTAVA, RS: Starting point of curvature for reflected diffracted shock wave, 4T283
SRIVASTAVA, VP: Two-fluid model of non-Newtonian blood flow induced by peristaltic waves, 2A841
- Effects of Poiseuille flow on peristaltic transport of a particulate suspension, 2A921
SRIVATSAN, TS: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
- Cyclic fatigue and fracture behavior of a titanium alloy metal matrix composite, 2A576
- Quasi-static fracture behavior of an aluminum alloy metal-matrix composite, 2A655
- Cyclic stress response, strain resistance, and fracture behavior of modified 1070 steel, 9A749
SRIVIDYA, A: Reliability based optimal design of reinforced concrete frames, 1A878
SROKOWSKA, H: Effect of restraint of walls on deformation of cylindrical tanks (Polish), 6A780
SROLOVITZ, DJ: Simulation of dynamic fracture of an impact-loaded brittle solid: Microcracked and polycrystalline solids, 2A169
- Effect of reinforcement morphology on matrix microcracking, 8A641
ST CLAIR, TL: Preliminary evaluation of hybrid titanium composite laminates, 8A460
ST-ARNEAULT, C: Dual conformance index-based robotic arm placement and adaptation, 8A363
STABB, MC: Double averaging approach to the study of spinup dynamics of flexible satellites, 6A93
STACHOWIAK, GB: Fretting wear and friction behavior of engineering ceramics, 5A768
STACHOWIAK, GW: Multi-scale measure of particle abrasivity, and its relation to two-body abrasive wear, 5A786
- Fretting wear and friction behavior of engineering ceramics, 5A768
- Model of scuffing based on the vulnerability of an elastohydrodynamic oil film to chemical degradation catalyzed by the contacting surfaces, 6A823
STACHURSKI, J: Effects of water and methanol sorption on surfaces of hard coals of different carbonization, 9A689
- Porosity of the Polish hard coals, 9A690
STADING, M: Small and large deformation studies of protein gels, 4A907
STAGLIANO, JJ: Doubling bifurcations of destroyed T^2 tori, 10A99
STAGNI, L: Line singularity inside an elliptic inhomogeneity, 1A465
- Unified treatment of the elliptic inhomogeneity with a slipping interface under line-singularity loading, 7T508
STAHL, J-E: Cutting force model for multi-toothed cutting process and force measuring equipment for face milling, 2A539
STAHLBERG, F: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
STAHLE, P: Effect of elastic mismatch on the growth of a crack initially terminated at an interface in elastic plastic bimaterials, 3A688
STAICU, ST: Study of torsional vibrations in systems with one dof by graphical method, 11A111
STAINBACK , PC: Reinvestigation of hot-wire anemometry applicable to subsonic compressible flows using fluctuation diagrams, 1A1029
STALEY, JT: Application of modern aluminum alloys to aircraft, 6A601
STALKER, RJ: Experiments on supersonic combustion ramjet propulsion in a shock tunnel, 1A245
- Mass spectrometer measurements of test gas composition in a shock tunnel, 6T1055
STALLA, I: Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and $T_{GF\beta}$-release in response to cyclic strain, 5A1373
STALLYBRASS, MP: Nizhnik-Veselov-Novikov equation: Associated boundary value problems, 12A229
STALNAKER, RL: Constitutive relationship for large deformation FE modeling of brain tissue, 5A1372
STALS, L: Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
STAMATOPOULOS, AC: Earth slide on geomembrane, 10A675
STAMATOPOULOS, GN: Mathematical modeling of column base plate connections, 7A955
STAMOS, AA: Three-dimensional response analysis of long lined tunnels in half-space, 8A1345
STAMOS, V: Fracture toughness calibration of the Si_3N_4-Fe joint system: A parametric study, 10A810
STAMP, AP: Deep-water internal solitary waves, 6A194
STAN, I: Numerical analysis for the effect of surfactants on a circular liquid lens - I, 11T909
STANBRIDGE, AB: Measurement of translational and angular vibration using a scanning laser Doppler vibrometer, 7A881
STANDER, N: Structural optimization of guyed trusses, 4A796
- Efficient 4-node 24 dof thick shell FE with 5-point quadrature, 9A608
- Feasible descent cone methods for inequality constrained optimization problems, 10A878
- Performance comparison of SAM and SQP methods for structural shape optimization, 11A732
- Pseudo-discrete rounding method for structural optimization, 12A826
STANDINGFORD, DWF: Optimal rectangular end plates, 11T1018
STANESCU, G: Optimal spacing of cylinders in free-stream cross-flow forced convection, 4A1143
- Cooling of a 2D space with one or more streams making one or more passes, 8A1220
STANEWSKY, E: Boundary-layer transition on swept cylinders at hypersonic speeds, 9A1097
STANFORD, CM: Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, 5A1379
STANIFORTH, JN: Flexible pharmaceutical powder production, 10A493
STANISLAS, M: Take-off threshold velocity of solid particles lying under a turbulent boundary layer, 9A1122
STANKEVYCH, VZ: Determination of displacements on the boundary of a solid, caused by discontinuities of the medium continuity, 7A498
STANLEY, AJ: Impulse response of cantilever cylindrical shells with discontinuity in thickness subjected to axisymmetric load, 1A613
- Frequency response of shell-plate combinations, 10A185
STANLEY, P: Devices for the experimental determination of individual stresses from thermoelastic data, 6A1159
- Determination of crack-tip parameters from thermoelastic data, 9T854
STANLEY, RK: Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service, Revised Edition, 5N11
STANLEY, WD: Tectonics and seismicity of the southern Washington Cascade range, 11A1336
STANMORE, BR: Geometric effects on mass transfer during thermogravimetric analysis: Application to reactivity of diesel soot, 1A1325
- Modeling NO_x release from a single coal particle - I: Formation of NO from volatile nitrogen, 9A1318
STANSBY, PK: Unsteady surface-velocity field measurement using particle tracking velocimetry, 2A1064
- Hydrodynamic damping force on a cylinder in oscillatory, very-high-Reynolds-number flows, 11A214
STANWAY, GS: Design model for intermediate web stiffeners, 9A600
STANZIAL, D: Reactive acoustic intensity for general fields and energy polarization, 9A337
STANZL-TSCHEGG, SE: Influence of transformation-induced crack closure on slow fatigue crack growth under variable amplitude loading, 2A568
- Fracture resistance to the crack propagation in wood, 12A762
STAPLES, EJ: Use of interferometry of measure flow characteristics of an oscillating draining film, 12A1037
STAPOR, WJ: Single-event upset effects on the Clementine solid-state data recorder, 5A752
STAQUET, C: Two-dimensional secondary instabilities in a strongly stratified shear layer, 1A1072
- Internal waves, turbulence, and mixing in stratified flows: A report on Euromech Colloquium 339, 11A995
STARCZEWSKI, Z: Chaotic vibration of a journal-bearing system, 1A943
- Stability of a rotor supported by short slide bearings, 9A226
- Resonant characteristics of a rotor-bearing system with the support length taken into account, 9A1004
STARK, MS: Formation of propene oxide from the co-oxidation of propene and acetaldehyde, 3A1228
STARK, TD: Liquefaction resistance using CPT and field case histories, 6A532
- HDPE geomembrane-geotextile interface shear strength, 8A533
STARKE JR, EA: Application of modern aluminum alloys to aircraft, 6A601
STARKE, G: Hybrid iterative methods for nonsymmetric systems of linear equations, 12A65
STARKEN, H: Off-design transition and separation behavior of a CDA cascade, 11A1061
STARNER, SH: Method for contour-aligned smoothing of joint 2D scalar images in turbulent flames, 5T1220
STARNES JR, JH: Thermomechanical postbuckling of geometrically imperfect flat and curved panels taking into account tangential edge constraints, 1A661
- Low-speed impact damage-initation characteristics of selected laminated composite plates, 3A196
- Frequency-load interaction of geometrically imperfect curved panels subjected to heating, 6A134
- Nonlinear and postbuckling responses of curved composite panels with cutouts, 9A614
- Vibrational imperfection sensitivity of August's model structure in the vicinity of nonlinear static state, 10A875
- Vibration of geometrically imperfect panels subjected to thermal and mechanical loads, 10A196
- Scale models for laminated cylindrical shells subjected to axial compression, 12A596
STAROBINETS, IM: Transitions and statistical characteristics of vibrations in a bimodular oscillator, 2A83
STAROSEL'SKII, AV: Normally incident transverse wave scattering by a plane crack, 6A186
STAROSTIN, EL: Regular and chaotic motions in applied dynamics of a rigid body, 12A120
STAROSZCZYK, R: Development of ground liquefaction due to surface waves, 3A186
STARUSHENKO, GA: Asymptotic methods in the theory of perforated membrane of nonhomogeneous structure, 1A614
STARZHENETSKAYA, TA: Changes in the physically mechanical properties of polymeric fibrous compsites affected by moisture and low temperatures (Russian), 2A435
STARZYNSKI, G: Natural surface layer of metals, 9A985
STASENKO, AL: Gas-thermodynamics of a two-phase jet impinging normally on a flat surface, 10A1162
STASIEK, J: Investigation of flow and heat transfer in corrugated passages - I: Experimental results, 3A1149
- Investigation of flow and heat transfer in corrugated passages - II: Numerical simulations, 3A1029
STASKOVANOVA, A: Fiber properties with changed cross-sectional geometry, 6T458
STASZEWSKI, R: Solar heat influence on distribution of stresses in RC rectangular tanks, 1A934
STATHOPOULOS, A: Robust preconditioning of large, sparse, symmetric eigenvalue problems, 6A67
STATNIKOV, RB: Multicriteria simulation and analysis, 12A973
STATSENKO, IN: Way to creating a system of distant power supply for space vehicles, 8A1393
STAUB, C: Sediment suspension in oscillatory flow: Measurements of instantaneous concentration at high shear, 12A1026
STAVA, D: Influence of boundary-layer transition on measured incipient separation angles, 2A943
STAVERIS, S: Improvement of polypropylene film adhesion in multilayers by various chemical surface modifications, 7A1036
STAVRE, R: Optimality conditions for control problems in heat conducting Navier-Stokes fluid, 11A870
STAVROPOULOU, M: Hydro-mechanical aspects of the sand production problem, 9A1369
STAVROULAKIS, GE: Optimal prestress of structures with frictional unilateral contact interfaces, 5A693
- Numerical treatment of hemivariational inequalities in mechanics: Two methods based on the solution of convex subproblems, 5A403
- Stability of elastic bodies with non-monotone multivalued boundary conditions of the quasi-differential type, 6A489
STAVROV, VP: Pultrusion mechanics of fiber-reinforced thermoplastic composites (Russian), 2A427
STAVSKY, Y: Refined theory for vibrations and buckling of laminated isotropic annular plates, 8A117
- Response and eigenfrequencies of rotating composite cylindrical shells, 10A194
STAZIKER, DJ: Extensions of the mild-slope equation, 4A273
STAZZONE, E: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371
STEC, JP: Refractive fiber optic microphones with ambient acoustic noise-canceling capabilities, 1A341
STECH, D: Optimal placement of damped struts using simulated annealing, 1A876
STECK, JE: Application of an artificial neural network as a flight test data estimator, 2A795
STECKE, KE: Integrated design support method for flexible assembly systems, 7A474
STECKENRIDER, JS: Study of crack-tip motion in dynamic fracture by microscopic time-resolved holography, 7A866
STEEL, JA: Prediction of structural vibration transmission through a motor vehicle using statistical energy analysis, 12A283
STEELANT, J: Accuracy analysis of central schemes with artificial dissipation and upwind flux-difference TVD schemes for Navier-Stokes equations, 6A930
STEELE, CR: Dynamic analysis of shells, 1A155
- Noninvasive determination of bone mechanical properties using vibration response: A refined model and validation *in vivo*, 6A1316
STEELE, R: Experiments in contact control, 7A442
STEELE, WG: Engineering application of experimental uncertainty analysis, 3A59

- Heat transfer in a high-temperature packed bed thermal energy storage system: Roles of radiation and intraparticle conduction, 8A1216
- Evaluation of correlated bias approximations in experimental uncertainty analysis, 10A1209
- Asymmetric systematic uncertainties in determination of experimental uncertainty, 12A343
- Computer simulation of a high-temperature thermal energy storage system employing multiple families of phase-change storage materials, 12A1271

STEENHOVEN, AAV: Unsteady flow in a rigid 3D model of the carotid artery bifurcation, 9A1453

STEER, PJ: Separation of fetal and maternal ECG complexes from a mixed signal using an algorithm based on linear regression, 1A1465

STEFAN, HG: Simulation and observation of ice formation (freeze-over) in a lake, 11A1443

STEFAN, P: Dynamic analysis of a thrust bearing-effect of misalignment and load, 1T1145

STEFANI, G: Optimality conditions for a constrained control problem, 8T287

STEFANI, JP: Turning-ray tomography, 3A1297

STEFANIAK, J: Waves generated by a plane source of dilatation in a viscoelastic medium, 8T174

STEFANOU, GD: Dynamic response analysis of nonlinear structures using step-by-step integration techniques, 2A116

STEFANOV, I: Application of patched elements based on a previous FE solution in plane elasticity problems, 10A525

STEFANOV, SH: Curvilinear integral method: Computer realization and testing 1: Under non-proportional reversed axial force and torque, 6A614

- Curvilinear integral method - Testing 2: Under non-proportional pulsating axial force and internal pressure, 8A593

STEFFLER, PM: Vertically averaged and moment equations model for flow over curved beds, 6T875

STEGALL, SR: Oblique impact modeling of fuzes, 9A283

STEGOU-SAGIA, A: Computational method for the methyl amine-H_2 gas mixture concentrations in methyl amine-H_2O-H_2 absorption refrigeration units, 12A1428

STEHBENS, WE: Receding of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer, 6A1368

STEHLIK, P: Helical baffles in shell-and-tube heat exchangers - Part I: Experimental verification, 10A1308

STEIGMANN, DJ: Energy-minimizing states of capillary systems with bulk, surface, and line phases, 1A1003

- Equilibrium analysis of finitely deformed elastic networks, 10A608

STEIN, AA: Deformation of a rod of growing biological material under longitudinal compression, 1A640

STEIN, DWJ: Statistical characteristics of moving acoustic sources in ocean waveguides, 1A311

STEIN, E: Shakedown of a CT specimen with St52 steel: Experimental analytical and numerical investigations, 3A470

- Assumed strain approach avoiding artificial thickness straining for a nonlinear 4-node shell element, 4A562
- Error indicators for mixed FEs in 2D linear elasticity, 4A440
- Coupling of adaptively refined dual mixed FEs and BEs in linear elasticity, 5A422
- Instability phenomena in plasticity: Modeling and computation, 6A410
- Continuum mechanical-based formulation of the variational sensitivity analysis in structural optimization - Part I: Analysis, 8A709
- Fast transient dynamic plane stress analysis of orthotropic Hill-type solids at finite elastoplastic strains, 8A377
- Numerical treatment and analysis of finite deformation ductile single crystal plasticity, 9A520
- Unified approach to the description of phase transitions and strain localization, 9A1284
- Shakedown of a cracked body consisting of kinematic hardening material, 10A786
- Performance comparison of SAM and SQP methods for structural shape optimization, 11A732
- Four-node finite shell element for the implementation of general hyperelastic 3D-elasticity at finite strains, 12A602

STEIN, JL: Proc of the ASME Dynamic Systems and Controls Division, DSC-Vol 57 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N9

- Fundamental factors in the design of a fast-responding methanol-to-hydrogen steam reformer for transportation applications, 12A1326

STEIN, RF: Magnetic structures in a dynamo simulation, 7A1141

STEIN, RS: Rotation of liquid crystalline macromolecules in shear flow and shear-induced periodic orientation patterns, 10A1049

STEINBERG, BZ: Effective measures for nonstationary microscale stiffness variation using multiresolution decomposition, 5A286

- Class of 1D stiffness microstructures resulting in identical macroscale response, 11A163

STEINBERG, DM: Configuring a seismographic network for optimal monitoring of fault lines and multiple sources, 6A1287

STEINBERG, M: Nonlinear predictive control of feedback linearizable systems and flight control system design, 3A338

- Adaptive control of feedback linearizable nonlinear systems with application to flight control, 12A398

STEINBERG, S: Conservative Finite-Difference Methods on General Grids, 6N4

STEINBERG, TA: Emission spectra of burning iron in high-pressure oxygen, 9A1332

STEINBRECH, RW: Residual stresses around Vickers indents, 2A403

STEINCHEN, W: TV-shearography for measuring 3D-strains, 12A790

STEINER, W: Equations of motion of the folded inextensible string, 5A491

STEINERT, W: Off-design transition and separation behavior of a CDA cascade, 11A1061

STEINKOPFF, T: Mehrphasige FE in der Verformungs- und Versagensanalyse grob mehrphasiger Werkstoffe (German), 2T426

- FE-simulation of crack paths in the real microstructure of an Al(6061)-SiC composite, 9A816

STEINLAGE, GA: Comparison of three mechanical models for cold roll bonding metal laminates, 9A697

STEINMAN, DA: MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, 8T1438

- Particle volumetric residence time calculations in arterial geometries, 11A1466

STEINMANN, P: Instability phenomena in plasticity: Modeling and computation, 6A410

- Fast transient dynamic plane stress analysis of orthotropic Hill-type solids at finite elastoplastic strains, 8A377
- Numerical treatment and analysis of finite deformation ductile single crystal plasticity, 9A520

STEINOLFSON, RS: Numerical modeling of the solar wind interaction with Venus, 10A1188

STELMAKH, LS: Macrorheological theory of hot compaction of composites, 8A560

STELZLE, W: Comparative study of recursive methods, 5A74

STEMME, E: Valve-less planar pump isotropically etched in silicon, 10T473

- Vibration modes of a resonant silicon tube density sensor, 11A352

STEMME, G: Valve-less planar pump isotropically etched in silicon, 10T473

- Vibration modes of a resonant silicon tube density sensor, 11A352

STEMPLE, T: Hybrid equations of motion for flexible multibody systems using quasicoordinates, 1A89

STEN, JC-E: Static-image method for the interaction of two coaxial conducting prolate spheroids, 3A1101

STENBERG, R: Mixed hp FEMs for problems in elasticity and Stokes flow, 7T10

STENBY, EH: Nonequilibrium segregation state of a two-phase mixture in a porous column, 10A1416

STENGEL, RF: Aircraft flight control in wind shear using sequential dynamic inversion, 3A991

STENSSON, A: Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, 7A199

STEPAN, G: Quasiperiodic oscillations in robot dynamics, 4A126

STEPANENKO, Y: Robust control of robot manipulators including actuator dynamics, 5A375

STEPANISHEN, P: Acoustic time-dependent loading on elastic shells of revolution using the internal source density and singular value decomposition method, 9A306

STEPANOV, AV: Damping of free oscillations in moving elastic systems, 8A101

STEPANOV, VA: Gaseous flow originated by a gunshot - I:, 9T1110

STEPANOVA, LV: Stress-strain analysis near the crack tip using linear-fractional creep law, 3A679

- Crack-tip asymptotic character of anti-plane stress and strain rate for linear fractional constitutive relations, 8A625

STEPANSKII, LG: Prediction of the reliability of the tools of multistation automatic presses, 3T857

STEPHAN, EP: Coupling of FEM and BEM for a nonlinear interface problem: The h-p version, 1A31

- Interface problems in elasto-viscoplasticity, 4A464
- Convergence rates for the coupling of FEM and collocation BEM, 6A38

STEPHAN, K: Influence of capillary pressure on the evaporation of thin liquid films, 3A1093

- Mean fluid temperatures in direct contact heat exchangers without phase change, 11A1217

STEPHAN, P: Influence of capillary pressure on the evaporation of thin liquid films, 3A1093

STEPHAN, W: Schwingungen elastischer Kontinua (Vibration of Elastic Continua) (German), 7R7

STEPHEN, DB: Modified Zienkiewicz-Zhu error estimator, 8A11

STEPHEN, EJ: Analysis of rolled delta wing flows using effective sweep and attack angles, 2A1008

STEPHEN, NG: Saint-Venant's principle in pin-jointed frameworks, 2A721

- Saint-Venant decay rates: A procedure for the prism of general cross-section, 5A496
- Saint-Venant's principle and the anti-plane elastic wedge, 11A410

STEPHENS, LS: Determination of power losses in high-speed magnetic journal bearings using temperature measurements, 1A1148

STEPHENS, RI: Constant and variable amplitude fatigue behavior and modeling of an SRIM polymer matrix composite, 1A748

- Corrosion fatigue of AZ91E-T6 cast magnesium alloy in a 3.5 percent NaCl aqueous environment, 5A608

STEPOWSKI, D: Measurements of vaporized and liquid fuel concentration fields in a burning spray jet of acetone using planar laser induced fluorescence, 5A1264

STERGIOPULOS, N: Wave transmission and reflection properties of stenoses, 6A1336

- Theoretical study of dynamics of arterial wall remodeling in response to changes in blood pressure, 8A1429

STERLING, JD: Influence of formation processes on oblique detonation wave stabilization, 11A236

STERN, SH: Tradeoffs between motion and stability in posterior substituting knee arthroplasty design, 1A1445

STERNBERG, P: Slow motion of vortices in the Ginzburg-Landau heat flow, 3A568

STERNBERG, SPK: Laboratory observation of nonlocal dispersion, 11A1321

STEVANOVIC, B: Design of composite timber-concrete beams, 11T772

STEVEN, GP: Model of spine, ribcage and pelvic responses to a specific lumbar manipulative force in relaxed subjects, 2A1292

- Evolutionary structural optimization for dynamic problems, 5A692
- Asymptotic formula for correcting FE predicted natural frequencies of membrane vibration problems, 7A150
- Shape optimization of interior cutouts in composite panels, 8A725
- Modified Zienkiewicz-Zhu error estimator, 8A11
- A-posteriori error estimator-corrector for natural frequencies of thin-plate vibration problems, 9A196
- Asymptotic formulae for correcting FE predicted natural frequencies of gravity and embankment dams, 9A217
- Evolutionary structural optimization for problems with stiffness constraints, 11A773
- A-posteriori error estimators-correctors for natural frequencies of membrane vibration problems, 11A113
- Evolutionary natural frequency optimization of thin plate bending vibration problems, 12A813

STEVENS, AE: Eastern North American earthquakes prior to 1660, 3A1275

STEVENS, C: Initial response of a stratified lake to a surface shear stress, 10A1442

STEVENS, DJ: Testing of Fiber Reinforced Concrete, 8N23

STEVENS, JW: Cellular deformation reversibly depresses RT-PCR detectable levels of bone-related mRNA, 5A1379

STEVENS, PC: Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, 11A1205

STEVENS, RN: Theoretical analysis of the cutting method for the measurement of crack bridging tractions, 9A852

STEVENS, SP: Experimental data processing techniques to map the performance of a spark ignition engine, 4A1265

STEVENSON, ANJ: Influence of nozzle length on the divergence of the erodent particle stream in a gas-blast erosion rig, 4A684

- Development of the dry sand-rubber wheel abrasion test, 12A941

STEVENSON, R: Frequency decomposition multilevel method: A robust additive hierarchical basis preconditioner, 12A18

STEVENSON, TN: Internal waves from a body accelerating in a thermocline, 8A205

STEWARD, FR: Experimental and theoretical information on solid flow in a circulating fluidized bed, 1A1363

STEWART, DE: Numerical method for friction problems with multiple contacts, 11A813

STEWART, DM: Numerical and experimental studies of annular flume flow, 9A1077

STEWART, DS: Dynamics of multi-dimensional detonation, 8A208

STEWART, I: Discrete velocity coagulation-fragmentation model, 2A1111

STEWART, JF: Delta improvement study: Hydrogen upper stage, 4A1269

STEWART, JN: Examination of vortex deformation during blade-vortex interaction, 11A1068

STEWART, JR: A *posteriori* error estimation and adaptive FE computation of the Helmholtz equation in exterior domains, 11A27

- Explicit residual-based a posteriori error estimation for FE discretizations of the Helmholtz equation: Computation of the constant and new measures of error estimator quality, 12A304

STEWART, KJ: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373

STEWART, PA: Interaction of phase-locked modes: A new mechanism for the rapid growth of 3D disturbances, 12A1101

STEWART, T: Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374

STEYN, DG: Resolved-scale turbulence in the atmospheric surface layer from a large eddy simulation, 3A1349

- Von Karman constant determined by large eddy simulation, 12A1423

STEYN, WH: Near-minimum-time eigenaxis rotation maneuvers using reaction wheels, 3A351

STIASSNIE, M: Water waves in a deep square basin, 4A269

STICKLER, R: Experimental K-calibration for corner cracks under bending loading, 6A640

- Model for crack closure, 8A610

STIDHAM, CR: Contamination and space environmental effects on solar cells and thermal control surfaces, 5A246

STIEGLITZ, R: Liquid-metal flow in a system of electrically coupled U-bends in a streng uniform magnetic field, 2A998

STIEHL, AL: Power flow analysis of beam members with multiple wave types, 11A23

STIELTJES, JED: Structural differences in wave propagation in discrete and continuous systems, 5A175

STIHARU, I: Study of the modal behavior of the human hand-arm system, 9T1454

STIHARU-ALEXE, I: Four-dimensional guidance of atmospheric vehicles, 6A309

STINCHCOMB, WW: Characterization of the fiber-matrix interphase and its influence on mechanical properties of unidirectional composites, 8A448

STINEBRING, DR: Laminar flow performance of a heated body in particle-laden water, 3A928

STINNES, WH: Minimization of the exit loss of a rotor-only axial fan, 11A1056

STINNETTE, P: Study of pore pressures induced in laboratory dynamic consolidation, 8A531

STINSON, MR: Spatial coherence of a sound field in a refractive shadow: Comparison of simulation and experiment, 3A254

- Experiments on surface waves over a model impedance plane using acoustical pulses, 9A256

STIRLING, MW: Earthquake size as a function of fault slip rate, 12A1358

STJEPANOVIC, Z: Spinning of fine yarns from sliver, 6T585

STOCK, DE: Proc of the ASME Heat Transfer and Fluids Engineering Divisions, HTD-Vol 321-FED-Vol 233 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 6N31

- Gas-Particle Flows - 1995 ASME/JSME Fluids Eng Conf, 2N39
- Particle dispersion in flowing gases: 1994 Freeman scholar lecture, 9A1121

STOCK, H-W: Computation of compressible, laminar boundary layers on swept, tapered wings, 5T990

STOCKIE, JM: Stability analysis for the immersed fiber problem, 4A291

STOCKS, NG: Dynamical characterization of the spatiotemporal structures in the wake of a bluff body, 8A961

STOCKSTILL, RL: Finite element model for high-velocity channels, 2T14

STOFFEL, A: LPCVD against PECVD for micromechanical applications, 10T460

STOIANOVICI, D: Critical study of the applicability of rigid-body collision theory, 12A234

STOJADINOVIC, B: Behavior of bridge outrigger knee joint systems, 3A1318

STOJANOVIC, IS: Planning on the geostationary satellite orbit and perspectives of its utilization (Russian), 3A235

STOJANOVIC, M: Reduced-complexity spatial and temporal processing of underwater acoustic communication signals, 1A308

STOJEK, M: Numerical assessment of a new T-element approach, 1A39

STOJIC, D: Damping distribution over the flexible connections in the frame structures, 11T131

- Design of composite timber-concrete beams, 11T772

STOJIC, R: Position-force control of robot interacting with dynamic environment in Cartesian space, 9A463

STOJILJKOVIC, DT: Modeling and analysis of woolen yarn extension, 12A1001

STOKES, GH: Joint operations planning for the mid-course space experiment satellite, 5A237

STOKIC, D: Adaptive hybrid control of robots (Russian), 3A405

STOLARSKI, PJ: Structural Materials Technology: An NDT Conference - 2nd Conf, February 1996, San Diego CA, 11N37

STOLIN, AM: Macrorheological theory of hot compaction of composites, 8A560

STOLL, RD: Remote determination of *in situ* sediment parameters using Love waves, 1A309

STOLLERY, JL: Effects of strakes on a glancing shock wave-turbulent boundary-layer interaction, 2A947

- Correlation of shock angles caused by rhombic delta wings, 12T1103

STOLOVITZKY, G: Refined similarity hypotheses for passive scalars mixed by turbulence, 2A992
- Simple model of chaotic advection and scattering, 5A895
STOLTZE, S: Waste-heat recovery in batch processes using heat storage, 1A1436
STOLZ, C: Functional approach in nonlinear dynamics, 3A175
- Morphologically representative pattern-based bounding in elasticity, 8A378
STOLZ, W: Evaluation of instationary flow fields using crosscorrelation in image sequences, 7A1197
STONE, CR: Design and performance of a viable valve timing system on a highly turbocharged diesel engine: Experimental and predicted results, 4A1264
STONE, E: Archetypal analysis of saptio-temporal dynamics, 7A1133
STONE, HA: Collective hydrodynamics of deformable drops and bubbles in dilute low Reynolds number suspensions, 4A1007
- Transverse motion of a disk through a rotating viscous fluid, 4A959
- Time-dependent viscous deformation of a drop in a rapidly rotating denser fluid, 12A1091
- Sedimentation of a sphere near a plane wall: Weak non-Newtonian and inertial effects, 12A1084
STONE, KW: Economic performance of the SCE Stirling dish, 3A1364
STONE, M: Experimental and theoretical study of the contact mechanics of five total knee joint replacements, 6A1374
STONE, MA: Assessment of failure criteria for fiber-reinforced composite laminates, 4A719
- Errors in double-sine series solutions for simply-supported symmetrically-laminated plates, 8A488
STONE, RSW: Sensing technique for the measurement of tactile forces in the gripping of dough-like materials, 11A367
STOORVOGEL, AA: H_{∞} control problem with zeros on the boundary of the stability domain, 11T279
STOPA, J: Peculiarities of two-phase flow in coalbeds, 2A934
- Peculiarities of two-phase flow in coalbeds, 3A933
STORACE, AF: Integration of magnotic bearings in the design of advanced gas turbine engines, 5A1281
STORAKERS, B: Buckling and fracture behavior of delaminations, 10A754
STORESLETTEN, L: Effect of anisotropic permeability on free convective boundary layer flow in porous media, 1A1370
STOREY, ML: Determination of reaeration coefficients: Whole-lake approach, 9T1428
STORM, PV: Fluorescence velocity measurements in the interior of a hydrogen arcjet nozzle, 9T1251
STORMS, BL: Experimental study of lift-enhancing tabs on a two-element airfoil, 2A1015
STORNELLI, S: Multibody dynamics incorporating deployment of flexible structures, 10A952
STOROZHENKO, VA: Influence of external and internal friction on the stability of vertical rotation of a rigid body, 7A86
STOROZHUK, EA: Nonlinear deformation of thin-walled shells under local loads (Russian), 3A537
- Two-dimensional elasto-plastic problems of the theory of flexible shells with curvilinear holes (Russian), 7A624
STORZA, PM: Turbulent incompressible jet in a curved coflow, 12A1136
STOSIC, N: Development of the trilateral flash cycle system - Part 3: The design of high-efficiency two-phase screw expanders, 8A1032
STOSIC, S: Preisach model for the cyclic bending of elastoplastic beams, 8A430
STOTEN, DP: Passivity-based analysis of the minimal control synthesis algorithm, 8T303
STOTH, M: Decay estimates for solutions of linear elasticity for anisotropic media, 6A379
STOTT, JAK: Temporal stability of a developing jet: A model problem, 5A959
STOUFFER, DC: Inelastic Deformation of Metals: Models, Mechanical Properties, and Metallurgy, 5R16
STOUT, KJ: Two-dimensional fast Fourier transform and power spectrum for surface roughness in 3Ds, 2A712
- Topographic features of cylinder liners: An application of 3D characterization techniques, 6T851
STOUT, MG: Brazilian disk for measuring fracture toughness of orthotropic materials, 8A684
- Modeling study of the effect of stress state on void linking during ductile fracture, 11A670
STOUTJESDIJK, TP: Risk of dike failure due to flow slides, 7A1352
STOYANOFF, S: Error assessment for wind histories generated by autoregressive method, 2A772
STRACHAN, RK: Design and performance of an experimental external fixation device with load transducers, 4A1369
STRAIN, J: Spectral methods for nonlinear parabolic systems, 3A55
- Two-dimensional vortex methods and singular quadrature rules, 8A887
STRAKA, WA: Measurements of the tip clearance flow for a high-Reynolds-number axial-flow rotor, 5A1059
- Experimental investigation of the flow through an axial-flow pump, 5A1050
- Flow visualization and the 3D flow in the axial-flow pump, 8A1029
STRAMBI, G: Pin-force and Euler-Bernoulli models for analysis of intelligent structures, 2T735
STRASBERG, M: Vibration damping of large structures induced by attached small resonant structures, 6A120
STRATFORD, GC: Strain localization in creep testing of samples with heterogeneous microstructures, 12A725
STRATMANN, F: Experimental comparison of four differential mobility analyzers for nanometer aerosol measurements, 7A1355
STRATOPOULOS, GN: Static properties and motion of vortices in charged fluids, 6A1007
STRAUB, DN: Inconsistency between two classical models of the ocean buoyancy driven circulation, 12T1411
STRAUBER, G: Modified box schemes for pollutant transport in rivers with dead zones, 5A1360
STRAWBRIDGE, A: Mechanical failure of thin brittle coatings, 2A599
STRAWN, RC: Unstructured adaptive mesh computations of rotorcraft high-speed impulsive noise, 1A291
- Computation of helicopter rotor acoustics in forward flight, 1A1132
- Mesh quality control for multiply-refined tetrahedral grids, 12A45
STRAYER, TD: Resonant free surface waves in a rectangular basin, 4A267
STRAZISAR, AJ: Improved aspirating probe for total-temperature and total-pressure measurements in compressor flows, 5A1082
- Effect of adding roughness and thickness to a transonic axial compressor rotor, 5A1054
STRAZOVEC, I: Pressure control by proportional pressure valve (Polish), 11A801
STREET , K: Proceedings of the Tenth International Conference on Composite Materials, 11N35
STREET, RL: Numerical simulation of coastal upwelling and interfacial instability of a rotating and stratified fluid, 6A906
- Linear dynamics of wind waves in coupled turbulent air-water flow - Part 2: Numerical model, 8A202
STREICHER, RM: Frictional resistance of new and explanted artificial hip joints, 5A771
STRELTSES, BV: High-strength polyethylene film fibers, 6A460
STREMLER, MA: Motion of three-point vortices in a periodic strip, 11A874
STREPPEL, AH: Process model for air bending, 10A698
STRGANAC, TW: Effect of damage growth on the aeroelastic response of composite structures, 6A661
- Aeroelastic behavior of composite plates subject to damage growth, 7A295
STRICKLAND JR, JK: Advantages of solar power satellites for base load electrical supply compared to ground solar power, 8A1380
STRICKLAND, JH: Fluid dynamics of parachute inflation, 6A205
- Parachute aerodynamics: An assessment of prediction capability, 9A968
STRICKLAND, P: Exploiting inherent parallelism in nonlinear FE analysis, 4A30
STRINGFELLOW, RG: Numerical analysis of a railroad bolt hole fracture problem, 4A748
STRIZ, AG: Static analysis of a curved shaft subjected to end torques, 8A483
- Vibration and buckling analysis of circular arches using DQM, 11A132
STROBAND, J: Structural lightweight concrete: Recent research, 1A895
STROE, I: Motion of rotating machinery in non-inertial reference frame, 11A150
STROM, S: Reconstruction of depth-dependent flow in a moving half-space using transient acoustic plane waves, 1A351
STROMBERG, N: Derivation and analysis of a generalized standard model for contact, friction, and wear, 8A786
STRONG, AB: Experimental investigation of the turbulence structure of medium-scale methanol pool fires, 10A1362
STRONGE, WJ: Dynamic deformation of rigid-plastic beams for general impulsive loading: A phenomenological model, 1A505
- Plane-stain incremental response and sensitivity of stretched plates, 1A610
- Perforation of rigid-plastic plate by blunt missle, 2A165
- Deformation of simply supported circular plate by central pressure pulse, 3A532
- Diffusion rate for stress in orthotropic materials, 5A397
- Shear and bending deformation of rigid-plastic circular plates by central pressure pulse, 9A581
STROOPER, PA: CLP (R) as a general FE model definition language, 2A19
STROUBOULIS, T: Model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals, 2A25
- Posteriori estimation and adaptive control of the pollution error in the h-version of the FEM, 5A31
- Computer-based proof of the existence of superconvergence points in the FEM: Superconvergence of the derivatives in FE solutions of Laplace's, Poisson's and the elasticity equations, 9A51
STRUCKMEIER, J: Fast generation of low-discrepancy sequences, 4A1000
- Numerical simulation of the stationary 1D Boltzmann equation by particle methods, 8T924
STRUMPF, H: S-glass-Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation, 1A563
STRUMPLER, R: Nonlinear dielectric composites, 2A439
STRUSZCZYK, H: New method for the manufacture of cellulose carbamate, 6T370
- Bioactive chemical fibers, 6T1351
STRYCZNIEWICZ, L: Problem of source modeling, 1A283
STRYKOWSKI, PJ: Effect of counterflow on the development of compressible shear layers, 8A915
STRZALKO, J: Dynamic analysis of a machine model with time-varying mass, 3A83
STRZELEC, M: Non-cooled (Hg, Cd) Te detectors of 10.6 μm radiation in direct and heterodyne detection, 3A1145
STRZELECKI, T: Macroscopic behavior of gas flow with adsorption through a fractured porous medium, 7T1359
STUART, TD: Dynamic modeling of a trailing wire towed by an orbiting aircraft, 1A142
STUBBS, N: Model-uncertainty impact and damage-detection accuracy in plate girder, 2A707
- Nondestructive damage evaluation of a structure from limited modal parameters, 4A783
STUBBS, RM: Simulation of overexpanded low density nozzle plume flow, 2A962
STUBINGTON, JF: Experimental investigation on the two-phase theory in a fluidized-bed combustor, 3A1261
STUCK, ER: Detecting and diagnosing mistakes in vision-based navigation, 12T436
STUCKERT, G: Evaluation of transition in flight tests using nonlinear parabolized stability equation analysis, 11A1028
STUDENTS, E: Contact of surface asperities in wear, 10T980
STUER, H: Fractal dimension and intermittency coefficients of certain flow variables in Newtonian and non-Newtonian turbulent flows, 8A83
STUHMILLER, JH: Model of blast overpressure injury to the lung, 6A1339
STULTZ, JW: Cassini multilayer insulation blanket high-temperature exposure tests, 3A1245
- Effective emittance for Cassini multilayer insulation blankets and heat loss near seams, 10A1305
STUMP, B: Implications for upper-mantle structure in the western US from complete far-regional seismograms, 3A1277
STUMP, DM: Surface uplift and wear implications of zirconia toughened ceramics, 6A832
- Transient solutions of the ring-spinning balloon equations, 12A125
STUMPF, H: Appropriate corotational rate, exact formula for the plastic spin and constitutive model for finite elastoplasticity, 2A1
- Nonlinear continuum theory of dislocations, 7A499
STUPAK, PR: Analysis of steel fiber pull-out from a cement matrix using video photography, 10A573
STUPELIS, L: Navier-Stokes Equations in Irregular Domains - Mathematics and Its Applications Series, Vol 326, 4R26
STUPKIEWICZ, S: Fiber sliding model accounting for interfacial micro-dilatancy, 7A560
STUPNICKI, J: Trends of experimental mechanics, 10A844
STURE, S: Effect of pore fluid compressibility on localization in elastic-plastic porous solids under undrained conditions, 8A434
STURGES JR, RH: Virtual wedging in 3D peg insertion tasks, 8A372
- Design of an orthogonal compliance for polygonal peg insertion, 8A368
STURGES, LD: Engineering Mechanics: Statics, Second Edition, 6R34
- Engineering Mechanics, Second Edition: Dynamics, 11R12
STURGES, RH: Design of a Vernier punch and die set for single-minute bending set-ups, 5A563
STURGESS, GJ: Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology combustor, 5A1240
- Modeling of local extinction in turbulent flames, 10A1399
STURMAN, AP: Kite based atmospheric sounding system, 12T1427
STURMAN, JJ: Convection in a long box driven by heating and cooling on the horizontal boundaries, 9A1072
STURTIVANT , C: Techniques to isolate dolphin whistles and other tonal sounds from background noise, 6A262
STUTRUD, J: Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, 7A1303
STUTZMANN, A: Studies of IGA intergranular attack-stress corrosion cracking related parameters and remedies, 11A1420
STUWE, HC: Green's function approach to wave propagation and potential flow around obstacles in infinite cylindrical channels, 10A378
STUWE, HP: Plastic deformation of fracture surface contacts in fatigue, 7A823
STUWE, K: Effects of localized deformation on melting processes in ice, 11A1437
STYCZEN, J: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
STYLIANOU, M: CLP (R) as a general FE model definition language, 2A19
STYLIARAS, VE: Mixed cycle for converting heat to mechanical work, 2A1078
STYNES, M: Almost fourth order uniformly convergent difference scheme for a semilinear singularly perturbed reaction - diffusion problem, 1T44
STYRYLSKA, T: Numerical modeling of temperature fields using the multigroup least-squares method, 3A1187
SU , CHING-TZONG: Quick evaluation of determinants, 7A78
SU , XIAOFENG: Prediction of overall average mechanical properties for multi-phase composites with imperfect interphase (Chinese), 9A555
SU , YINXUE: Two-dimensional numerical study on a rectangular thermosyphon with vertical or horizontal heat transfer sections, 2A1095
SU, CHENGYONG: Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, 10A1233
SU, CHUAN J: Plane generation strategies for a knowledge-based automated process planning system, 4A416
SU, CHUN-YI: Robust control of robot manipulators including actuator dynamics, 5A375
SU, D: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562
SU, FEN: Theory of response analysis of fuzzy stochastic dynamical systems with a single dof, 8A761
SU, FH: Study on thermal strain using subscale specimens, 6A1177
SU, GY: Wear behavior of reinforced aluminum alloys in various impact loadings, 4A834
SU, HL: Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, 7A1216
SU, HUIHE: Failure analysis of a gas turbine from a generating set, 9A768
SU, J: Time marching BEM for 2D incompressible thermally coupled flows, 5A1156
SU, J HANNSEN: Load transmissibility control by virtual substructures, 7A915
SU, JIANXIN: Towards a practical characterization fw structure-borne sound sources based on mobility techniques, 2T224
SU, LT: Prediction and measurement of temperature fields in silicon-on-insulator electronic circuits, 3A1166
SU, RENJENG: Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, 5A332
SU, RKL: Fractal two-level FE analysis of cracked Reissner's plate, 7A21
- Order of the singular stress fields of through-thickness cracks, 10A831
- Analytical solution for mode I crack orthogonal to free surface, 12A770
- Fractal two-level FEM for cracked Kirchhoff's plates using DKT elements, 12A737
SU, SHEN-JWU: Improvement of transonic wing buffet by geometric modifications, 1T263
SU, TZU-JENG: Substructure-based controller design method for flexible structures, 3A340
SU, XIAOFENG: Generalized self-consistent FE iterative averaging method (Chinese), 7A594
- Effects of microstructure on the macroscopic elasto-plastic properties of metal matrix composites, 9A547
SU, XIAOWEI: Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), 8A588
SU, XY: Inertia-sensitive impact energy-absorbing structures - Part I: Effects of inertia and elasticity, 1A506
- Inertia-sensitive impact energy-absorbing structures - Part II: Effect of strain rate, 1A507
SU, Y: Micromachined silicon cantilever paddles with piezoresistive readout for flow sensing, 10A461
SU, YAW-TERNG: Machining rate of hydrodynamic polishing process, 3A1001
- Ultra-precision machining by the hydrodynamic polishing process, 4A643
SU, YI-CHEN: Dynamic point specification approach to sequencing robot moves for PCB assembly, 4A420
SU, YU-HSUAN: Numerical simulation of the dynamics of acoustically levitated drops, 10A1125
SU, ZHAO: Microstructure and properties of styrene acrylate polymer cement concrete, 11A760
SU, ZHIXING: Antiwear and extreme pressure characteristics of 2-mercaptobenzothiazole

derivative as the potential lubricating oil additive, 10A1229
SUAREZ, LE: Seismic response of structural frameworks with flexible connections, 3A1317
- Eigenvalue analysis of structures with flexible random connections, 11A8
SUARIS, W: Acoustic emission source characterization in concrete under biaxial loading, 3A733
SUBBANNA, GR: Effect of interface layers formed during dry sliding of zirconia toughened alumina (ZTA) and monolithic alumina against steel, 10A992
SUBBARAM NAIDU, D: Regional pole placement method for discrete-time systems, 12T379
SUBBARAYA, CK: Combined surface tension and buoyancy-driven convection in a rectangular open cavity in the presence of a magnetic field, 5A1163
SUBBIAH, K: Loading on a vertical cylinder in multidirectional waves, 5A871
SUBBOTIN, VI: Convective heat exchange and thermomechanics of cooling laser mirrors, 5A1157
SUBLET, J-C: Maintenance of a commercial fusion power station and its implications for safety, 11T1474
SUBRAMANIAM, KVL: Design curves for prestressed concrete rectangular beam sections based on BS 8110, 8A756
SUBRAMANIAN, A: Curvature contours of flexed plates by a multiple illumination moire shearing interferometer, 12A785
SUBRAMANIAN, G: Fast algorithm for the static shape control of flexible structures, 8A296
- Curvature contours of flexed plates by a multiple illumination moire shearing interferometer, 12A785
SUBRAMANIAN, RV: Interfacial shear strength of oxide films on carbon fibers formed by the sol-gel process, 3A698
SUBRAMANIAN, S: Characterization of the fiber-matrix interphase and its influence on mechanical properties of unidirectional composites, 8A448
SUBRAMANYA, PS: Design of ejectors for deep hole machining, 4A635
SUBRAMANYA, R: Numerical modeling of wave breaking induced by fixed or moving boundaries, 10A296
SUCEC, J: Simple, accurate integral solution for accelerating turbulent boundary layers with transpiration, 5TV26
SUCUOGLU, H: Prediction of seismic energy dissipation in SDOF systems, 1A1386
- Earthquake ground motion characteristics and seismic energy dissipation, 1A1385
SUDA, H: Recording and processing of planar curve using clothoids - 1st report: Approximation error of ellipse curve and involute curve with clothoidal interpolation (Japanese), 2A547
- Recording and processing of planar curve using clothoids (2nd Report): Recording of cam profile with clothoidal interpolation (Japanese), 4A849
SUDA, K: Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), 5A1315
SUDAVTSOVA, VK: Deformation of thin shallow inhomogeneous shells (Russian), 7A618
SUDER, KL: Improved aspirating probe for total-temperature and total-pressure measurements in compressor flows, 5A1082
- Effect of adding roughness and thickness to a transonic axial compressor rotor, 5A1054
- Experimental and computational investigation of the tip clearance flow in a transonic axial compressor rotor, 11A1060
SUDHAKAR, K: Inertia-coupled coordinated roll maneuvers of airplanes, 1T1114
- Jump phenomena in y-shaped intake ducts, 9T1155
- Characterization of periodic motions in aircraft lateral dynamics, 11A147
SUDHIRKASHYAP, SV: Dynamic analysis of threaded fasteners subjected to axial vibration, 12A204
SUDICKY, EA: Variable spatial and temporal weighting schemes for use in multi-phase compositional problems, 4T1362
SUDO, Y: Sound propagation simulations using lattice gas methods, 2A219
- Analytical study of critical heat flux in a vertical channel with countercurrent flow limitation, 4A1181
- Critical heat flux of comparatively low-velocity upward-saturated two-phase flow in vertical channels, 7A1235
SUE, JE: Linear prediction approach in airborne adaptive arrays, 10A398
SUEMASU, H: Multiple delaminations and their severity in circular axisymmetric plates subjected to transverse loading, 10A799
SUEN, KO: Investigation of effects of wave motion on the performance of a falling film absorber, 11A1231
SUEOKA, A: Polygonal deformation of roll-covering rubber, 9A278
SUGA, H: Effects of cardiac infarction on realistic 3D left ventricular blood ejection, 9A1447
SUGA, K: Development and application of a cubic eddy-viscosity model of turbulence, 11A1004
SUGA, T: Minimum detectable force gradients of piezoelectric microcantilever, 3T394
- Piezoelectric force for scanning force microscopy (SFM) (Japanese), 9T443
- Friction and bonding, 12T884
SUGANO, T: Fundamental study on composite sensitivity analysis of electrode array system for resistivity measurements (Japanese), 3A1300
- Study on correlativity for paint film deterioration of steel bridge with corrosion under paint films (Japanese), 11A647
SUGAVANAM, R: Numerical investigation of conjugate heat transfer from a flush heat source on a conductive board in laminar channel flow, 1A1181
SUGAWARA, Y: Two-dimensionally quantized friction observed with 2D frictional force microscope, 4T836
SUGAYA, I: Study on human-oriented interface for CNC machine tools, 12A1487
SUGIHARA, K: Application of acoustic emission technique for estimation of initial stress (Japanese), 1A851
- Distributed algorithms for formation of geometric patterns with many mobile robots, 7A426
SUGIHARA, Y: Validity of the standard k-ε model for diffusion dissipation balanced turbulence (Japanese), 3A969
SUGIHARA-SEKI, M: Effect of irregularities of vessel cross-section on vascular resistance, 4A1367
SUGIHASHI, N: Hydrogen embrittlement of prestressing steel (Japanese), 9A490
SUGIMOTO, H: Magnetohydrodynamic instability in axisymmetric spherical plasma with parallel flow to magnetic field, 2A1000
SUGIMOTO, J: Three-dimensional thermoelastic analysis of the straight section of a PWR hot leg containing a hot spot using BEM, 2A1270
SUGIMOTO, N: Vibration characteristics of tapered roller bearings, 7A204
- Acoustic solitary waves in a tunnel with an array of Helmholtz resonators, 9A356
SUGIMOTO, S: Experimental findings in compression-after-impact (CAI) tests of CF-PEEK (APC-2) and conventional CF-epoxy flat plates, 7A831
SUGIMURA, T: Behavior of detonations passing through reflection nozzles, 1T238
SUGITA, K: Gear grinding by vitrified-bonded CBN wheel of screw shape (Japanese), 2T551
SUGITA, T: Evaluation of hardness of superhard thin films by analysis of indentation behavior with a Vickers indeter (Japanese), 3T436
- Measurement of tool-workpiece interface temperature by two-color pyrometer (Japanese), 4T1140
- Chip forming temperature on micro cutting - 2nd report: Influence of cutting speed and material properties on thermal partition coefficient (Japanese), 7A762
- Effect of coolant of water-solution in superfinishing: Application of electrolytic in-process dressing (Japanese), 9A727
- Superfinishing of fine ceramics: Influence of grain size on finishing performance (Japanese), 9A739
SUGIURA, K: Fatigue behavior on split tee flange joints (Japanese), 11A831
SUGIYAMA, H: Numerical analysis of developing turbulent structure in a trapezoidal open channel flow by using Reynolds stress model (Japanese), 6A957
- High-speed photography study on engagement process of wet clutch, 7A1193
SUGIYAMA, K-I: Flow induced by temperature gradient along wall in rarefied gas container, 11A927
SUGIYAMA, S: Bacterial motion and flagellar motors, 12T1469
SUGIYAMA, Y: Application of self-similarity to a large scale adaptive system: Proposal of recursive architecture, 2A246
- Formulation of elevator door equation of motion, 12A968
SUH, CHANG HO: Talc-thermoplastic compounds: Particle orientation in flow and rheological properties, 8A1301
SUH, DONG M: New ultrasonic technique for detection and sizing of small cracks in studs and bolts, 9A867
SUH, JUNG HEE: Optimal 9-point, finite-difference, frequency-space, 2D scalar wave extrapolator, 8A1332
SUH, KYUNG DUCK: Wave reflection from perforated-wall caisson breakwaters, 7T271
SUH, YS: Anisotropic yield functions with plastic-strain-induced anisotropy, 12A525
SUHARWARDY, I: Clarification of the orthogonal effects in a 3D seismic analysis, 7A1383
SUHLING, JC: Applications of Experimental Mechanics to Electronic Packaging, EEP-Vol 131/AMD-Vol 214 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N13
SUI, XIAO: Fatigue crack extending and estimation of fatigue life of tubular joints (Chinese), 8A581
SUICH, R: Spacecraft expected-cost analysis with k-out-of-n:G subsystems, 5T755
SUJATHA, C: Twist drill deformation and optimum drill geometry, 2A820
- Whole-body vibration exposure in Indian buses, 3A1409
SUJKOWSKI, Z: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
SUKEGAWA, N: Numerical solution of water quality equation for rivers (Japanese), 3A887
SUKEYASU, Y: Wave motions during soil-structure interaction by time domain BEM (Japanese), 5A551
SUKHATME, SP: Heat transfer during film condensation of R-123 vapor on horizontal integral-fin tubes, 8A1138
SUKHOV, BY: Effect of flow swirling and porous coating on critical heat flux in a horizontal tube with nonuniform heating, 1A1236
SUKIENNICKI, A: Chaotic dynamics of periodically driven domain walls in magnetic garnet films, 10T645
SULEIMAN, MB: Varying the componentwise order of the multistep methods in solving ODEs and its absolute stability, 7A82
SULEM, PL: Dynamos in weakly chaotic 2D flows, 3T99
SULEMAN, A: Simple FE formulation for a laminated composite plate with piezoelectric layers, 7A570
SULFREDGE, CD: Homogeneous nucleation of vapor by depressurization at constant volume, 4A1191
SULI, E: Evolution-Galerkin methods and their supraconvergence, 1A57
SULICIU, I: Numerical results for a viscoplastic softening problem, 1A521
- Transient response of an impulsively-loaded plastic string on a plastic foundation, 11A449
SULLIVAN, BJ: Three-dimensional phase transformation model for shape memory alloys, 7A524
SULLIVAN, C: Parallel processing approach to acoustic tomography, 9A386
SULLIVAN, EJ: Passive localization in ocean acoustics: A model-based approach, 1A307
- Model-based environmental inversion: A shallow water ocean application, 1A306
SULLIVAN, JM: Modeling approach for 2D distributed transducers of arbitrary spatial distribution, 10A150
SULLIVAN, JP: Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, 3A1076
SULLIVAN, PA: Interactions between shock wave and hypersonic laminar boundary layer near convex corner, 5A932
SULLIVAN, RE: Experience with unusual acoustic vibration in heat exchanger and steam generator tube banks, 8T222
- Prediction of acoustic vibration in steam generation and heat exchanger tube banks, 10A368
SULLIVAN, RM: Effect of water on thermal stresses in polymer composites, 9A1285
SULLIVAN, RW: Plate wave flow patterns for ply orientation imaging in reinforced composites, 9A267
SULLIVAN, SP: Transmit-receive eddy current probes for circumferential cracks in heat exchanger tubes, 6A700
SULLY, RM: Behavior of cold-formed SHS beam-columns, 8A476
SULTAN, C: Stability and control of airplane at high angles of attack: Bifurcation phenomena, 11A319
SULTAN, MA: Linear state feedback regulator for rigid link manipulators, 11A392
SULTANOV, KS: Numerical analysis of nonstationary plane elastic wave diffraction on a rigid wedge, 7A245
- Waves in a rod embraced by a moving body, 10A244
SULYOK, M: Evaluation of web buckling test results on welded beams and plate girders subjected to shear, 10A634
SUMARAC, D: Preisach model for the cyclic bending of elastoplastic beams, 8A430
SUMBATOV, AS: Conditions for the onset of sliding in a plane system with friction, 12A874
SUMBATYAN, MA: Low-frequency penetration of acoustic waves through a periodic arbitrary-shaped grating: The 3D problem, 4A244
- Explicit analytical results for one-mode oblique penetration into a periodic array of screens, 12A227
SUMI, N: Dynamic thermal stresses in a finite circular plate with a penny-shaped crack generated by impulsive heating, 10A1328
SUMI, T: Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), 9A1460
SUMI, Y: Second-order perturbation method for the stress analysis of solids with slightly wavy or irregular surfaces, 3A444
- Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
SUMIMOTO, T: Study on coupled torques in contouring control of articulated robot mechanism (Japanese), 9A456
SUMIYOSHITANI, S: Three-dimensional model for analyzing charge carrier motion around a charged spherical object in the presence of flow and electric field, 11A1318
SUMMERS, JL: Modeling and analysis of meniscus roll coating, 2A536
SUMPIO, BE: Cyclic strain causes heterogeneous induction of transcription factors, AP-1, CRE binding protein and NF-kB in endothelial cells: Species and vascular bed diversity, 5A1382
SUN , DONGKE: High-precision integration of mixed type for analysis of non-stationary random responses (Chinese), 3A61
SUN , JIAN Q: Vibration and sound radiation of non-uniform beams, 2A211
SUN , JINCAI: Vibrational transmission between flanged plates (Chinese), 3A263
SUN , SHOUGUANG: Single crystal hardening: Mechanisms and description, 3A467
SUN , SHULI: New model of wall element (Chinese), 9T79
SUN, B: Global analysis of structural evolution in a row of grains, 8A9
- Toxicity of organic chemicals and their mixtures to activated sludge microorganisms, 10A1454
SUN, BAOYUAN: Testing system for measuring tire impression stress distribution (Chinese), 8A777
- Optimum design of wheel-type structure for three-axis accelerometer (Chinese), 8A836
SUN, BINGNAN: Mindlin's solution for axially symmetric problem of multilayer subsoils (Chinese), 11A413
- New off-BEM for analyzing plate and shallow shell bending, 11A530
- Triangular plate bending element considered transverse shear strain deformation (Chinese), 11A41
SUN, BO-HUA: Exact displacement solution of arbitrary degree paraboloidal shallow shell of revolution made of linear elastic materials, 10A610
SUN, BOHUA: Remarks on the structure of evolution equations, 4A1135
SUN, CHERNG-YUAN: Thermomechanical response analysis of lithographic mask structure using FEM, 3A644
SUN, CHIN-CHENG: Computation of permeability and dispersivities of solute or heat in periodic porous media, 5A1307
SUN, CT: Structural Integrity in Aging Aircraft, AD-Vol 47 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N20
- Dynamic Response and Behavior of Composites, AD-Vol 46 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N15
- Quasi-static modeling of delamination crack propagation in laminates subjected to low-velocity impact, 1A820
- Apparent bending isotropy in clamped elliptic composite laminates, 1A551
- Use of thickness-shear mode in adaptive sandwich structures, 2A771
- Nonlinear frequency and large amplitude of sandwich composites with embedded shape memory alloy, 4A194
- Efficient modeling of postbuckling delamination growth in composite laminates using plate elements, 6A625
- Analysis of cracked aluminum plates repaired with bonded composite patches, 7A631
- Simple model to predict residual velocities of thick composite laminates subjected to high-velocity impact, 7A578
- Low velocity impact damage in composite sandwich beams, 7A835
- Prediction of composite properties from a representative volume element, 9A550
- Elastic-viscoplastic behavior of fiber-reinforced thermoplastic composites, 10A574
- Delamination characteristics of double-cantilever beam and end-notched flexure composite specimens, 11A677
- Determination of Mode III fracture toughness in thick composite laminates, 11A678
SUN, D-Z: Verification of the transferability of micromechanical parameters by cell model calculations with visco-plastic materials, 5A455
SUN, DA-WEN: Jet-pump cycle: A low cost refrigerator option powered by waste heat, 2A1143
SUN, DC: Effect of worm gear geometry on its contact properties, 6T843
SUN, FANPING: Electro-mechanical impedance modeling of active material systems, 11A735
SUN, FENG-BIN: Environmental Stress Screening: Its Quantification, Optimization, and Management, 3N23
SUN, FENGRUI: General performance characteristics of a finite-speed Carnot refrigerator, 7A1274
SUN, FR: Study on optimal performance and working temperatures of endoreversible forward and reverse Carnot cycles, 4A1136
SUN, G: Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, 11A702
SUN, GUANGFU: Almost fourth order uniformly convergent difference scheme for a semilinear singularly perturbed reaction - diffusion problem, 1T44
SUN, GUANYU: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
SUN, H: Application of a delimitative and combinatorial algorithm to the discrete optimum design of structures, 12A809

SUN, HA: Dynamic reliability analysis of antenna reflector accuracy under wind excitation, 9A954
SUN, HONGWEI: Study of optimization of partially slewing crane with compensating pulley luffing systems (Chinese), 7A909
SUN, HUA: Heat transfer from an array of strips to fluorinert coolant in a mixed impinging-jet/channel-flow configuration, 8A1221
SUN, HUANCHUN: Condensed method for linear complementary equations of elasto-plastic problems, 6A385
- Weakly singular boundary integral equation for thin plate bending theory (Chinese), 8A61
- Layout optimization of truss structures with discrete sizing variables (Chinese), 8A768
- Difference quotient algorithm for finding the feasible set of (0,1) programming of optimum design of structures with discrete variables (Chinese), 8A711
- Shape optimization designs of trusses with discrete variables (Chinese), 8A723
SUN, J: Extrudate swell through an orifice die, 9A1045
SUN, JC: Power flow between three series coupled oscillators, 7A127
SUN, JG: Transient flows and pressure waves in pipes, 1T972
SUN, JH: Measurement of the flow field in a diesel engine combustion chamber after combustion by cross-correlation of high-speed photographs, 9A1324
SUN, JI-GUANG: Optimal backward perturbation bounds for the linear least-squares problem with multiple right-hand sides, 6A63
SUN, JI-GUANG: Perturbation analysis of singular subspaces and deflating subspaces, 10T63
SUN, JIELUN: Relationship of surface heat flux to microscale temperature variations: Application to BOREAS, 6T1293
SUN, JINCAI: Realization of optimal results in adaptive active vibration control (Chinese), 10A441
SUN, JIZHONG: Solutions for a class of equations occurring in research of arc column instability (Chinese), 8A847
SUN, JQ: Passive tuned vibration absorbers for sound radiation reduction from vibrating panels, 10T236
SUN, JS: Combination of the weight function method and the line spring model: A surface-cracked cylindrical shell subjected to stress gradients, 1A833
SUN, JY: Simulation of the impact behavior of a package with discrete contents, 5A190
SUN, LIANGXIN: Stress concentration of finite composite laminates weakened by multiple elliptical holes, 1A560
SUN, LIJUN: Concrete pavement layer moduli based on stable deflection, 6A546
SUN, LM: Numerical analysis of adsorptive temperature wave regenerative heat pump, 8A1211
SUN, MAO: Navier-Stokes analysis of a circulation control airfoil, 3A894
SUN, MIN: New explanation of cause of heat convection of gases under micro-gravity (Chinese), 8A1082
SUN, P: Analysis of overshooting phenomena in profile measurement by optical stylus sensor (Japanese), 7A871
SUN, PIZHONG: Nonlinear oscillation analysis by an orthogonal function method, 4A201
SUN, Q-P: Transformation-induced plasticity (TRIP), 8A426
SUN, QINGHONG: Noise active control study based on control theory for distributed parameter systems (Chinese), 4A324
SUN, R: Three-dimensional prestack full-wavefield inversion, 3A1296
SUN, RONGXIN: Effects of torque on the transverse vibration frequency of a point-anchored bolt, 7A186
SUN, SHIXIAN: Nonlinear oscillation analysis by an orthogonal function method, 4A201
SUN, SHU-MING: Advances in Multi-Fluid Flows - Proc of AMS-IMS-SIAM Joint Summer Res Conf, Seattle WA, July 1995, 12N39
SUN, SI-YING: Optimum disposition of assembled piping system for parallel operation of multiple compressors, 12A1116
SUN, SM: Numerical solution of large deformation problems involving stability and unilateral constraints, 5A425
SUN, T: Affine fractal interpolation functions and wavelet-based FEs, 6A30
SUN, T-C: Design sensitivity analysis and optimization of nonlinear dynamic response for a motorcycle driving on a half-sine bump road, 11A7
SUN, W: High order direct method for solving Poisson's equation in a disc, 1T58
- Analysis of the impression creep test method using a rectangular indenter for determining the creep properties in welds, 12A507
SUN, WEIWEI: Optimal positioning of anodes for cathodic protection, 10A415
SUN, WENCE: Application of computation of exponential of a matrix in heat transfer (Chinese), 8A1172
SUN, WENXIN: Variable boundary model of storm surge flooding in generalized curvilinear grids, 2A1257
SUN, X: Coupled torsional-lateral-axial vibration analysis of a geared shaft system using substructure synthesis, 7A202
SUN, XD: Nonlinear inverse dynamics control of aircraft using spoilers, 8A1017
SUN, XF: Damage-coupled creep mechanics and its structural analysis principle, 5A610
SUN, XUEWEI: Novel method for the measurement of J resistance curves, 4A764
SUN, XUEZHONG: Precision calorimetric studies of H_2O electrolysis, 1A1163
SUN, Y: Analysis of shear localization in porous materials based on a lower bound approach, 1A514
- Numerical model for the dry sliding contact of layered elastic bodies with rough surfaces, 8T797
- Unlubricated rolling-sliding wear mechanisms of complex aluminum bronze against steel, 12A915
SUN, YI: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
SUN, YI-SUI: Hamiltonian description of streamline formalism with application in planetary rings, 1A274
SUN, YORK-YIH: State-space solutions to H^{∞} sampled-data control problems, 2T268
- Robust dynamic output feedback sliding-mode control of singular perturbation systems, 6A305
- Design of near-optimal observer-based controllers for singularly perturbed discrete systems, 12A370
SUN, YOUMEI: Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, 12A886
SUN, YUANGUI: Dynamic testing on spring damping foundation (Chinese), 9A213
SUN, Z: Feasibility of producing ferritic-austenitic dissimilar metal joints by high energy density laser beam process, 12A997
SUN, ZF: New numerical scheme for convective dominated heat transfer in a porous medium with strong temperature gradients, 4A1320
SUN, ZH: Power flow between three series coupled oscillators, 7A127
SUN, ZHAOHUI: Realization of optimal results in adaptive active vibration control (Chinese), 10A441
SUN, ZHENGQI: Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, 5A1378
SUN, ZHUMEI: Study of the fast reaction characteristics of aluminized PETN explosive powders, 10A335
SUN, ZUO: Novel method for the measurement of J resistance curves, 4A764
SUNADA, Y: Experimental research on blunt trailing-edge airfoil sections at low Reynolds numbers, 4A1108
SUNDAR, K: Comparison of high-resolution schemes applied to flows containing strong shocks, 4A48
SUNDAR, S: Generalized sufficient condition for time-optimal control, 12A352
SUNDAR, V: Hydrodynamic behavior of long floating structures in directional seas, 9A321
SUNDARAM, S: Viscous drag reduction using riblets on NACA 0012 airfoil to moderate incidence, 9A1140
- Numerical considerations in simulating a turbulent suspension of finite-volume particles, 9A1120
SUNDARARAJAKUMAR, RR: Non-continuum lubrication flows between particles colliding in a gas, 11A926
SUNDARARAJAN, G: Sliding wear behavior of Al-SiC particulate composites - Part I: Macrobehavior, 6A803
- Sliding wear behavior of Al-SiC particulate composites - II: The characterization of subsurface deformation and correlation with wear behavior, 6A804
SUNDARARAJAN, P: Significance of considering nonlinear effects in predicting the dynamic behavior of rotating machinery, 3A169
- Theoretical and experimental investigation of a gas-operated bearing damper for turbomachinery - Part I: Theoretical model and predictions, 5A1289
- Gas-operated bearing damper for turbomachinery - theoretical predictions versus experimental measurements - Part II: Experimental results and comparison with theory, 5A1280
SUNDARAVADIVELU, R: Hydrodynamic behavior of long floating structures in directional seas, 9A321
SUNDARESAN, S: Instabilities and the formation of bubbles in fluidized beds, 4A1313
- Stability of bounded rapid shear flows of a granular material, 8A1300
SUNDBACK, U: Annoyance of idling diesel engine noise evaluated by multivariate analysis, 7A348
SUNDEN, B: Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995, 1N35
- Analytical-empirical model to predict heat transfer coefficients in circulating fluidized bed combustors, 3A1259
- Flow visualization and LDV measurements of laminar flow in a helical square duct with finite pitch, 4T1040
SUNDER, SS: Tensile cracks in polycrystalline ice under transient creep - Part II: Numerical simulations, 4A705
- Tensile cracks in polycrystalline ice under transient creep - Part I: Numerical modeling, 4A16
- Microcracking due to grain boundary sliding in polycrystalline ice under uniaxial compression, 5A663
SUNDERLAND, PB: Soot nucleation and growth in acetylene air laminar coflowing jet diffusion flames, 8T1262
- Soot formation in hydrocarbon-air laminar jet diffusion flames, 9A1319
SUNDSTROM, L-G: Laminar free convection in inclined rectangular enclosures, 11A1123
SUNG, CJ: Structural response of counterflow diffusion flames to strain rate variations, 1A1320
- Non-Huygens flame configuration in stagnation flow, 3A1211
- Further studies on effects of thermophoresis on seeding particles in LDV measurements of strained flames, 9A1335
- Stretch-affected flame propagation in vortical flows, 9A1314
- Detailed oxidation kinetics and flame inhibition effects of chloromethane, 10A1368
- Scalar structure of nonequidiffusive premixed flames in counterflow, 12A1303
SUNG, HJ: Evolution of initially uniform shear flow through a nearly 2D 90° curved duct, 1T1058
- Mass transfer measurements from a blunt-faced flat plate in a uniform flow, 11T1258
SUNG, HYUNG JIN: Nonlinear low-Reynolds-number k-ε model for turbulent separated and reattaching flows - I: Flow field computations, 1A1088
- Local convective mass transfer on circular cylinder with transverse annular fins in crossflow, 6A1179
- Forced convection from an isolated heat source in a channel with porous medium, 6A1098
SUNG, JC: Phenomena of cracks perpendicular to an interface between dissimilar orthotropic materials, 9A820
- Singularities at the tip of a crack terminating normally at an interface between two orthotropic media, 12A491
SUNG, YOUNG WHEE: Constrained optimization approach to resolving manipulator redundancy, 10A479
SUNIL, S: Natural convection heat transfer from a thin rectangular fin with a line source at the base: A finite difference solution, 8A1076
SUNKEL, R: Tangential loading transportation between roller and flat with modified Coulomb friction: A 3D roll-contact calculation with the FEM, 5A415
SUNSERI, M: Neural network classification of flaws detected by ultrasonic means, 12A430
SUO, Z: Fracture mechanics for the design of ceramic multilayer actuators, 6A638
- Global analysis of structural evolution in a row of grains, 8A9
SUO, ZHIQIANG: Hydroelasticity of rotating bodies: Theory and application, 7A1151
SUPEL, JA: Elastic-plastic plates sealing a liquid: Tests and analysis, 9A601
SURANA, KS: p-version least squares FE formulation for 3D, isothermal, incompressible, non-Newtonian fluid flow, 2A896
- p-version least squares FE formulation for 3D, incompressible, non-isothermal, non-Newtonian fluid flow, 3A911
- Conditioning number and the selection criteria for p-version approximation functions, 12A15
- Role of p-version Q(p) and Q'(p) 2D approximation functions in smooth and singular problems, 12A64
SURBLED, P: Improvement of a classical electrodeposition process for electrostatic variable-capacitance, side-drive micromotor fabrication, 10T459
SURDILOVIC, D: Deflection compensation for large flexible manipulators, 7A430
- One method for efficient dynamic modeling of flexible manipulators, 7A435
SURESH, S: Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix, 2A447
- Steady-state creep of metal-ceramic multilayered materials, 9A499
- Mechanics and physics of layered and graded materials: Papers from the Engineering Foundation Conference on Mechanics and Physics of Layered and Graded Materials held in Davos, Switzerland, August 21-25, 1995, 11A487
SURESH, YJ: Free vibration studies of arches, 4T189
SURESHKUMAR, R: Effect of artifical stress diffusivity on the stability of numerical calculations and the flow dynamics of time-dependent viscoelastic flows, 3A453
- Uniformly valid approximations for the conformational integrals resulting from Gaussian closure in the Hookean dumbbell model with internal viscosity, 4A910
- Hopf-Hopf and steady-Hopf mode interactions in Taylor-Couette flow of an upper convected Maxwell liquid, 10A1076
SURI, M: Mixed hp FEMs for problems in elasticity and Stokes flow, 7T10
- Optimal p-version approximation of singularities on polyhedra in the BEM, 10A52
SURI, S: Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769
SUROWIAK, JF: Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, 8A1440
SURPRENANT, R: Controlling the dimensions of laser-chemical vapor-deposited metallurgy, 8A562
SURRY, D: Effect of surroundings and roof corner geometric modifications on roof pressures on low-rise buildings, 4A1348
SURYANARAYANA, PVR: Experimental study of buckling and post-buckling of laterally constrained rods, 1A642
SUSAN-RESIGA, R: Finite element analysis of free-surface axisymmetric flows, 11A24
SUSHCHENKO, EA: Possibility of nondestructive determination of critical load of the rod-type structures, 7A655
SUSLICK, KS: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472
SUSLIN, AV: Summation of creating small-sized manual winches with planetary drive, 11A817
SUSLOV, SA: Stability of mixed-convection flow in a tall vertical channel under non-Boussinesq conditions, 4A1160
SUSUMPOW, T: Active control of multimodal cable vibrations by axial support motion, 1A141
- Nonlinear dynamic model for cables and its application to a cable-structure system, 4A164
SUSZYNSKI, Z: Registration of delaminations of thin coatings of thick substrates with thermal waves, 1A1292
SUTANTO, H: Global performance evaluation of image features for visual servo control, 8A302
SUTCLIFFE, MPF: Microbuckle propagation in a unidirectional carbon fiber-epoxy matrix composite, 12A536
SUTER, UW: Local bending moment as a measure of adhesion: The blister test, 11A846
SUTHERLAND, JW: Predictive heat generation model in orthogonal cutting visco-plastic material, 9A709
SUTIN , A: Observation of nonlinear scattering of acoustical waves at sea sediments, 7A341
SUTIN, AM: Nonlinear interaction of acoustical waves due to cracks and its possible usage for cracks detection, 1A855
SUTOH, A: Optimization of the discrete system using an importance sampling technique (Japanese), 1A877
SUTTERER, KG: Polymer impregnation to assist undisturbed sampling of cohesionless soils, 8A537
SUTTON, A: Frequency-domain electromagnetic characteristics of a 26-kilowatt ammonia arcjet, 7A1348
SUTTON, MA: Elastic solutions for corner cracks undergoing uniform displacement-controlled loading, 1A780
- Study of stable crack growth in thin SEC specimens of 304 stainless steel by computer vision, 2A573
- High-temperature deformation measurements using digital-image correlation, 10A847
SUTTON, TJ: Active attenuation of periodic vibration in nonlinear systems using an adaptive harmonic controller, 5A696
SUTTON, WH: Predictions of radiative transfer in 2D nonhomogeneous participating cylindrical media, 6A1136
SUTYRIN, VG: Refined theory of composite beams: The role of short-wavelength extrapolation, 8A480
SUVOROV, AA: Wave beam tremble within an absorbing random medium with lens properties, 10A260
- Wave beam tremble within an absorbing random medium with lens properties, 11A175
SUVOROV, AY: Numerical study of free convection in a strongly inhomogeneous gas medium, 1A1192
SUWABE, H: Study on vibration cutting characteristics using OD-blade (Japanese), 9A712
SUWALSKI, J: Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, 9A986
SUWANAYUEN, S: Heat transfer characteristics in a small-scale fluidized bed boiler, 12A1344
SUZUKI, A: Stability analysis on earth reinforcement by using the velocity field method (Japanese), 2A521
SUZUKI, H: Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), 3A632
- Extraction of form error features using the Simulated Annealing Method with Bezier Templates (Japanese), 11A713
SUZUKI, I: Distributed algorithms for formation of geometric patterns with many mobile robots, 7A426
SUZUKI, J: Combined forced and free laminar convective heat transfer from a vertical plate with coupling of discontinuous surface heating, 4A1157
SUZUKI, K: Position and force control of pneumatic cylinder with ultrasonic PWM valves: First Report - Evaluation of control system by numerical simulation and experiments (Japanese), 3A412
- Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), 3A724
- R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), 3A647

- Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, 5A1127
- Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
- Experimental study on seismic responses of piping systems with friction - Part 1: Large-scale shaking table vibration test, 5A1320
- Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, 9A1016
- Modal identification of boiler plant structures by seismic records: Identification based on multi-input-output AR model, 9A215

SUZUKI, M: Boundary integral equation method for nonlinear heat conduction problems with temperature-dependent material properties, 5A1166
- Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), 5A1325
- Simulation of stochastic waves by hybrid method of Kalman filter and Kriging techniques (Japanese), 5T107
- Application of multivariate autoregressive model to groundwater behavior (Japanese), 7A1361
- Evaluation of lifetime risk in reinforced concrete structure (Japanese), 9A915
- Inflow and outflow boundary conditions for direct numerical simulations, 11A907
- Analysis of transient heat conduction with phase changes by a boundary integral equation method, 11A1190
- Membrane diffusion and flux response, 12A1294

SUZUKI, MAKOTO: Determination and renewal of the optimum pumping rates for dewatering during excavation based on Bayesian decision theory and observational method (Japanese), 4A622

SUZUKI, N: Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, 10A796

SUZUKI, R: Low temperature fabrication of ZrN thin film using ion beam (Japanese), 1A737

SUZUKI, S: Study on the evaluation method of debris flow and the hillside landslide scale of debris flow in hazardous torrent (Japanese), 4T619
- Study on the application of neural network as the process of support selection for tunnel contruction with NATM (Japanese), 4T822
- Study on grinding-like polishing using magnetic fluid: Surface polishing characteristics of Si-wafer (Japanese), 5A578
- Corrosion resistance and rust structure of weathering steels and iron antiquities (Japanese), 6A619
- Simultaneous optimization of sailplane design and its flight trajectory, 11A796
- Experiments on heat transfer of smooth and swirl tubes under one-sided heating conditions, 12A1228

SUZUKI, T: Morphological and flexural properties of lightweight gypsum based fiber reinforced composites, 4A519
- Experimental study on frost heaving force of natural ground (Japanese), 4A610
- Examination of the von Neumann paradox for a weak shock wave, 4A281
- Pseudo-dynamic tests of concrete filled steel columns with prototype details (Japanese), 5A513
- Evaluation of friction torque and heat quantity generated in spindel (2nd Report): Influence of design parameters upon heat quantity evaluated with an improved measuring system (Japanese), 5A812
- Proposal of a seismic isolation structure for urban tunnels and the method to evaluate its isolation effects (Japanese), 5A1326
- Investigation on leakage characteristics of retaining wall by impedance measurement (Japanese), 7A714
- Evaluation of friction torque of rolling bearing (Japanese), 9A1001
- Compatibility of pitch-based carbon fibers with aluminum for the improvement of aluminum-matrix composites, 9A527
- Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
- Experimental study on the silicone-based material for seismic isolation system for urban tunnels (Japanese), 10A920
- Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), 11A569

SUZUKI, Y: Flexible microgripper, 1A420
- Development of flexible microgripper (Japanese), 4T415
- Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, 5A1060
- Study on vibration control of boring tool and recognition of cutting state (Japanese), 7A206
- Static analyses of the triangular running skyline system: A 3D movable logging cable system, 12A582

SVANADZE, MZ: Fundamental solution of the equation of steady oscillations for thermoelastic mixtures, 9A168

SVEDBERG, G: Photocatalytic treatment of wastewater from 5-fluorouracil manufacturing, 7A1396

SVEKLO, IF: Microtribological problems of physics and mechanics in smooth surface contact, 12T931

SVENDSEN, B: Thermodynamics of a mixture of isotropic materials with constraints, 4A1139

SVENDSEN, IA: Sediment suspension in oscillatory flow: Measurements of instantaneous concentration at high shear, 12A1026

SVENNINGSEN, KH: Optimization of flow geometries applying quasianalytical sensitivity analysis, 9A1156

SVENSON, AL: Mass and volume fraction properties of pultruded glass fiber-reinforced composites, 1A565

SVENSSON, L: Surface micromachining technology applied to the fabrication of a FET pressure sensor, 10A471

SVENSSON, N: Fractographic analysis of delamination within multidirectional carbon-epoxy laminates, 5A646

SVENSSON, PU: Application of the time domain formulation of the method of equivalent sources to radiation and scattering problems, 7A338

SVENSSON, T: Prediction of fatigue life based on level crossings and a state variable, 3A656
- Response spectrum methods in tank-vehicle design, 5A153

SVETLICHNAYA, SD: Nonstationary plane nonaxisymmetric deformation of a multilayered cylinder, 9A474

SVETLICHNYI, VM: Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699

SVETLITSKII, VA: Analysis of the dynamics of nonlinear mechanical systems subjected to additive and parametric nonstationary random perturbations, 5T851
- Analysis of nonstationary dynamic processes in the presence of mixed information on random perturbations, 6A49

SVININ, MM: Optimal geometric structures of force-torque sensors, 4A407

SVIRIDA, MI: Optimal control of 2D nonaxisymmetrical temperature field in a cylinder under restrictions for thermoelastic stresses (Russian), 7A1281

SVIRIDENOK, AI: Fracture of reinforced thermoplastics, 7A793
- Microtribological problems of physics and mechanics in smooth surface contact, 12T931

SVISHCHEV, GP: Disturbance growth control in a boundary layer, 10A1134

SVOBODA, V: Fracture behavior of a pipe with very sharp deep notches subjected to cyclic loading, 1A746

SWADDIWUDHIPONG, S: Vibrations of cylindrical shells with intermediate supports, 4A179
- Dynamic response of elasto-plastic planar arches, 8A419

SWAIN, CJ: Horizontal acceleration corrections in airborne gravimetry, 6A1243

SWAKON, J: Using artificial neural networks to assist in the interpretation of geophysical data, 9A1382

SWALLOWE, GM: Tuning of church and carillon bells, 2A225

SWAMEE, PK: Design of class-I sedimentation tanks, 6T882

SWAMIDAS, ASJ: Monitoring crack growth through change of modal parameters, 2A708
- Dynamic response of tubular T-joints under the influence of propagating cracks, 8A146

SWAMINATHAN, N: Effects of shear and strain on temporal evolution of laminar diffusion flames, 6A1195
- Structure of nonpremixed reaction zones in numerical isotropic turbulence, 11A1001

SWAMY, MNS: Active acoustic noise cancellation with audio signal enhancement based on an almost-symmetrical time-varying autoregressive-moving average model, 12A291

SWAMY, SN: Analysis of modified railway passenger truck designs to improve lateral stability-curving behavior compatibility, 2A70

SWAN, C: Extreme waves in shallow and intermediate water depths, 12T242

SWANGLER, M: Cratering phenomena on aircraft anti-icing films, 7A1169

SWANSON, AG: Single particle characterization of time-of-flight mass spectrometry, 2A1210

SWANSON, DA: Modeling and performance of an experimental active vibration isolator, 5A168

SWANSON, DC: Sound equilization in enclosures using modal reconstruction, 3A290

SWANSON, DR: Heat capacity of confined helium very near the lambda point, 7A302

SWANSON, KL: Baroclinic instability, 2A973

SWANSON, LW: Proc of the ASME Heat Transfer Division, Vol 1, HTD-Vol 317-1 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N34

SWANSON, SR: Micro-mechanics parameters controlling the strength of braided composites, 1A566
- Effect of state of stress on compression failure in carbon-epoxy laminates, 5A640

SWARNAMANI, S: Experimental identification of linearized oil film coefficients of cylindrical and tilting pad bearings, 5A828

SWARTZ, HM: Measurement of temperature with electron paramagnetic resonance spectroscopy, 11A1472

SWARTZ, SE: Fracture Mechanics of Concrete and Rock: Applications of Fractures Mechanics to Concrete, Rock, and Other Quasi Brittle Materials, 1R17

SWATERS, GE: Note on the stability theory of buoyancy-driven ocean currents over a sloping bottom, 8A1360

SWEARINGEN, JD: Dynamics and stability of a vortex ring impacting a solid boundary, 2A867

SWEATMAN, WL: Dosages from instantaneous releases of dense gases in wind tunnels and into a neutrally stable atmosphere, 12A1438

SWEEGERS, N: Effect of erosional wear on strength and residual stress during shaping of ceramic multilayer capacitors, 3A659

SWEENEY, J: Constitutive law for large deformations of polymers at high temperatures, 12A1

SWEERS, G: Invertibility of mappings arising in 2D grid generation problems, 8A55

SWEGLE, JW: Feasibility of using smoothed particle hydrodynamics for underwater explosion calculations, 6A226

SWEIDAN, BN: Response of long-span bridges to spatially varying ground motion, 10A1431

SWENSON, GR: Vehicle glow measurements on space transportation system flight 62, 10A1114

SWIANTNICKI, WA: Structural basis of interface engineering, 9A15

SWIDER , P: Dynamic modeling of a composite plate: A mixed numerical and experimental approach, 11A516

SWIDER, J: Matrix hybrid graphs as models of complex vibrating mechanical systems, 2A128

SWIDERSKI, T: New resilient and bulky nonwovens and their applications, 6T428
- Nonwoven carriers for artificial leather, 6T429

SWIERNIAK, A: Decentralized feedback controllers for uncertain interconnected systems with Markovian jumping parameters, 1A382

SWIFT, KG: Conformability analysis in support of design for quality, 7A465

SWIM, WB: Proc of the ASME Noise Control and Acoustics Division, NCA-Vol 21 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N7

SWINDEMAN, M: Transient thermal deformations of the interphase in polymer composites, 5A1196

SWINERD, GG: Long-periodic and secular perturbations to the orbit of a spherical satellite due to direct solar radiation pressure, 1A269
- Long-periodic and secular perturbations to the orbits of Explorer 19 and Lageos due to direct solar radiation pressure, 1A270
- Debris-cloud collision risk analysis: Polar-platform case study, 5A247
- Free molecule aerodynamic investigation using multiple satellite analysis, 8A925

SWITONSKI, E: Averaging of mechanical systems by means of non-smooth periodic functions, 1A124

SWITZER, G: Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, 7A1303

SWOBODA, M: Shock boundary-layer interaction on transonic airfoils for laminar and turbulent flow, 7A1097

SYCHEV, VV: Breakdown of an axisymmetric laminar wake, 10A1155

SYCZEWSKI, M: Data generation in the analysis of wall-plate building structures (Polish), 6A774

SYED, AR: Creep crack growth prediction of solder joints during temperature cycling: An engineering approach, 3A665

SYKES, JF: Spatial-temporal averaging method for modeling transport in porous media, 9A1359

SYKES, JM: Effect of temperature and chloride content on corrosion potential of iron in chloride contaminated mortars, 2A593
- Effect of mix proportions on corrosion of Swedish Iron in ordinary Portland cement mortars at elevated temperatures, 2A592

SYLOS LABINI, M: Finite element analysis of the thermal field in the rotor during induction motor start-up, 10A1287

SYLVESTER, J: Layer stripping for the Helmholtz equation, 11A64

SYMMONS, GR: Optimal design of involute profile helical gears, 12A975

SYMONDS, G: Sediment transport near the break point associated with cross-shore gradients in vertical eddy diffusivity, 7T1049

SYMONDS, PS: Anomalous dynamic elastic-plastic response of a Galerkin beam model, 9A180

SYMS, RRA: Demonstration of 3D microstructure self-assembly, 5T347
- Equilibrium of hinged and hingeless structures rotated using surface tension forces, 5T348

SYNN, SANG Y: Concurrent element level processing for nonlinear dynamic analysis on a massively parallel computer, 4A27

SYNNESTVEDT, R: Simulation of the dynamics of helicopter slug load systems, 6A1041

SYNNESTVEDT, RG: Effective method for modeling stiction in multibody dynamic systems, 9A976

SYNOLAKIS, CE: Runup of solitary waves on a circular island, 4A261

SYNOWICKI, RA: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252

SYOJI, K: Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), 4T644
- Studies on centerless grinding (2nd Report): Optimum grinding conditions (Japanese), 9A715
- Development of wheel spindle for ultra-high speed surface grinding machine - 1st Report: Studies on ultra-high speed grinding (Japanese), 11A603

SYRED, N: Dynamic characteristics of a small fixed-bed gasifier stove, 8A1271

SYRJALA, S: Higher order penalty-Galerkin FE approach to laminar natural convection in a square cavity, 7A1212

SYRMOS, VL: Optimal Control, Second Edition, 6R10

SYSOEV, VI: Nonisothermal stability of viscoelastic liquid flow between disks, 10A1262

SYTNIK, IF: Investigation of free vibration of flexible shells with finished shear rigidity by Neumark method (Russian), 7A173

SYZRANTSEV, VV: Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1006

SZABELSKI, K: Nonlinear vibrations of parametrically self-excited system with two dof, 1A97
- Self-excited system vibrations with parametric and external excitations, 4A132

SZABO, BA: Generalized stress intensity factors in linear elastostatics, 6A641
- Numerical analysis of singularities in 2D - Part 2: Computation of generalized flux-stress intensity factors, 7A518
- Superconvergent extraction of flux intensity factors and first derivatives from FE solutions, 10A25

SZABO, L: Consistent tangent operator for plasticity models based on the plastic strain rate potential, 5A460

SZABO, P: Split Lagrangian-Eulerian method for simulating transient viscoelastic flows, 3A456

SZADKOWSKI, J: Differential manifolds of the optimal solutions of a system of three ordinary equations, 9A411

SZADY, MJ: New mixed FEM for viscoelastic flows governed by differential constitutive equations, 2A388

SZALAI, JP: Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics, 8A1440

SZALEWSKI, M: Methods of measurements of the quality factor of piezoelectric resonators with high electrical and mechanical losses, 9A650
- Radiation of piezoelectric rings into the air through cylindrical waveguides, 9A260

SZARLINSKI, J: Determining limit states of ARC sewage tank subjected to imposed strains and external loads, 3A820
- Determining limit states of ARC sewage tank subjected to imposed strains and external loads, 9A973

SZCZEPINSKI, W: Review of certain non-standard theoretical and experimental investigations in fracture mechanics, 10A839

SZCZGIELSKI, A: Effect of restraint of walls on deformation of cylindrical tanks (Polish), 6A780

SZCZUCKA, J: Numerical model of multiple sound scattering from gas bubbles in the sea, 1A327

SZCZYGIELSKI, WM: Centrifugal impulse as coordinate in the Tabarrokian formulation, 3A74

SZCZYTKO, J: Hydrostatic pressure study of MBE CdMnTe doped with bromine, 6A517

SZE, KAM-YIM: Two-dimensional contact on a piezoelectric half-space, 7A684

SZE, KY: Elimination of spurious pressure and kinematic modes in biquadratic nine-node plane element, 4A29
- Economical assumed stress brick element and its implementation, 7A40

SZEMPLINSKA-STUPNICKA, W: Minimum safe impulsive velocity in the driven escape oscillator, 11A92

SZERI, AJ: Analytical integration and a numerical method for 1D compressible flow with diffusive transport, 6A931
- Surfactant dynamics and rectified diffusion of microbubbles, 9A1131
- Deformation tensor model of Brownian suspensions of orientable particles: The nonlinear dynamics of closure models, 12A1003

SZEWCZYK, ZP: Hybrid neurocomputing-numerical strategy for nonlinear structural analysis, 4A813

SZKLARSKI, L: Elements of parallel transformation at computer-aided analysis and control of robot-excavator system in the working process of mineral deposits (Polish), 3A409

SZKODNY, T: Dynamics of industrial robot manipulators, 2A299
- Forward and inverse kinematics of IRb-6 manipulator, 2A300

SZKUDLARCZYK, P: Effect of boron introduction into bearing steel through laser treatment on the properties of surface layers (Polish), 6A818

SZLACHETKA, P: Lyapunov exponents analysis of autonomous and nonautonomous sets of ordinary differential equations, 1A110

SZLAZAK, N: Changes of the methane concentration in dog headings (Polish), 9T1406

SZMIDT, JK: Approximate description of Stokes' type waves generated in fluid of constant depth, 9A289
SZMIDT, K: Impulse response function for water waves generated in fluid of constant depth, 1A232
SZNAJDER, J: Calculation of the wing aerodynamic characteristics with ground effect using panel methods, 3A994
SZOSLAND, J: Criteria of dynamic quality control of linear textile products in terms of their technological usability, 6T374
SZTUKIENWICZ, RJ: Ultrasonic characteristics in the description of the surface layer of a flexible pavement, 9A681
SZTUT, H: Use of aramide filaments (SVM) in the structure of bicomponent threads, 6A433
SZTWIERTNIA, A: Design of interferenced and clamped joints under general state of stress, 3A860
SZUCHT, E: Lightless aging of man-made fibers, 6A463
SZULADZINSKI, G: Analysis of braking a cylindrical boulder and application to bench blasting, 9A686
SZUMBARSKI, J: Analysis of the stochastic velocity field by proper orthogonal decomposition, 3A973
SZUSTALEWICZ, A: Augmented biplot and some examples of its use, 10A66
SZUWALSKI, K: Optimal design of disks with respect to ductile creep rupture time, 2A728
- Nonhomogeneous bars optimal with respect to ductile creep rupture, 2A727
SZYBA, D: Energetically most efficient trajectories for the heavy machine shoving process, 1A706
SZYC, W: Optimal design of a cylindrical shell loaded by internal pressure, 12A817
SZYLD, DB: Projection cutting plane algorithm for convex programming problems, 7T77
SZYMANOWSKI, J: Controllability and optimization in aeroassisted orbital transfer, 1T390
SZYMANSKI, Z: Stability of plasma induced during CW CO_2 laser welding, 3A643
SZYMCZĄK, H: Anomalous reversible torque in layered superconducting $Bi_2Sr_2CaCu_2O_x$, 9A654
SZYMCZAK, R: Anomalous reversible torque in layered superconducting $Bi_2Sr_2CaCu_2O_x$, 9A654
SZYMURA, S: Annealing effect on grain texture and magnetic properties of 0.13 mm 3% Si-Fe strips, 9T653
SZYRLE, W: Residual stresses, microstructure and fatigue behavior of carburized layers before and after shot peening, 9A986

T

TA, LD: Analysis of piled raft systems in layered soil, 6A540
TABAK, EG: Second-order Godunov method on arbitrary grids, 9T131
TABAKOFF, W: Three-dimensional flow field measurements using LDV in the exit region of a radial inflow turbine, 12A1185
TABARROK, B: CLP (R) as a general FE model definition language, 2A19
- Cable geometry for a towed submersible, 2A458
- Vibration analysis of Timoshenko beams with non-homogeneity and varying cross-section, 4A160
- Time marching BEM for 2D incompressible thermally coupled flows, 5A1156
- Two theorems on statical indeterminacy of structures, 6A710
- Melnikov's method for rigid bodies subject to small perturbation torques, 9A137
TABBARA, M: Element-free Galerkin method for wave propagation and dynamic fracture, 4A252
- Dynamic fracture using element-free Galerkin methods, 9A838
TABEI, H: Study of small hole drilling under the feed with vibration (Japanese), 1A728
TABEI, M: Ultrasonic scattering from a simulated cavity in steel, 3A277
- Fast converging binomial series for radiation field calculation, 3A299
TABELING, P: Exponents of the structure functions in a low temperature helium experiment, 11A1002
TABER, LA: Model for stress-induced growth in the developing heart, 5A1367
- Mechanics of ventricular torsion, 10A1478
TABIEI, A: Buckling of moderately thick composite cylindrical shells under destabilizing loads, 2A498
TABOR, A: Influence of the bainitic microstructure on wear resistance of the ductile cast iron (Polish), 6A797
TABOR, D: Tribology - The last 25 years: A personal view, 1A940
TABOREK, J: Heat-rate improvements obtained by retubing condensers with new, enhanced tube types, 8A1190
TABSH, SW: Reliability of composite steel bridge beams designed following AASHTO's LFD with LRFD specifications, 7A965
TACEY, RK: Ply-level failure analysis of thick-section composite structures based on "smeared" FE results, 10A801
TACHER, L: Automatic nodes generation in N-dimensional space, 10A43
TACHI, K: Ultrasonic measurement of bone and bone marrow thicknesses in femur covered with flesh by inserting a hip prosthesis stem, 3A1402
TACHIBANA, T: Studies on centerless grinding (2nd Report): Optimum grinding conditions (Japanese), 9A715
TADA, N: Probabilistic inverse analysis for predicting the distribution of multiple internal defects, 4A693
- Physical meaning of creep damage parameters evaluated from distribution of grain boundary cavities on cross-section (Japanese), 7A794
- Analysis of direct current potential field around multiple random cracks, 10A865
TADA, Y: Method for the evaluation of lubrication using injection upsetting, 3A605
- Influence of crystallization on strength and color of castable glass-ceramics containing two crystals, 6A448
- Effects of surface-finishing condition and annealing on transformation sensitivity of 3 a mol% Y_2O_3 stabilized tetragonal zirconia surface under interaction of lubricant, 12A928
TADANO, S: Polychromatic x-ray method for residual-stress measurements in a subsurface layer, 10A857
- Mathematical expression of 3D configuration of the scoliotic spine, 11A1455
TADGHIGHI, H: Consistent approach for modeling the aerodynamics of self-generated rotor blade-vortex interactions, 10A1218
TADI, M: Feedback controller for a flexible structure using piezoceramic actuators, 3A368
- Interior energy focusing within an elasto-plastic material, 8A436
TADIKONDA, SSK: Modeling of translational motion between two flexible bodies connected via three points, 4A110
- Geometric stiffness matrices in flexible multibody dynamics, 5A76
- Multibody dynamics incorporating deployment of flexible structures, 10A952
TADRIST, L: Experimental study of convective boiling in a porous medium: Temperature field analysis, 8T1151
TAERWE, L: Non-Metallic (FRP) Reinforcement for Concrete Structures - Proc of the 2nd Int RILEM Symp (FRPRCS-2), Ghent, Belgium, Aug 23-25, 1995, 1N23
TAFRESHI, A: Numerical analysis of stresses at oblique holes in plates subjected to tension and bending, 3A443
TAGA, M: Field testing on nonsalt solar ponds, 9A1420
TAGASHIRA, K: Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, 11T1329
TAGATA, G: Parametric oscillations of a nonlinear string, 1A146
TAGAVI, KA: Homogeneous nucleation of vapor by depressurization at constant volume, 4A1191
TAGAWA, M: Coherent motions and heat transfer in a wall turbulent shear flow, 6A990
TAGAWA, T: Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), 10A731
TAGAWA, Y: Development of microvibration testing device: Realizing microvibrational reference waves smaller than floor vibrations, 12A196
TAGGART, DG: Dilute estimates of inelastic deformation in metal-matrix composites, 2A433
TAGHAVI, R: Resonant interaction of a linear array of supersonic rectangular jets: An experimental study, 8A917
- Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system, 10A1108
TAGHIRAD, HD: State-feedback control for passenger ride dynamics, 6A163
TAGHIZADEH, M: Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
TAGLIAFERRI, V: Experimental study on grinding of silicon carbide reinforced aluminum alloys, 10A715
TAGO, K: Tribological study on molecularly thin films using non-equilibrium molecular dynamics, 7T999
TAGUCHI, K: Study on strength characteristics of Si_3N_4 coil springs, 11A814
TAGUE, JA: Acoustic imaging in turbulent media with the spatial bispectrum, 3A264
TAHA, IMS: Cooling of water flowing through a night sky radiator, 3A1135
TAHAN, N: Orthotropic rectangular plates under in-plane loading - Part 1: Closed-form solutions for stresses, 4A558
- Orthotropic rectangular plates under in-plane loading - Part 2: Application to the series solution by reference to the problem of colinear compression, 4A559
TAHAT, MA: Integrated thermochemical heat-pump-energy-store, 2A1149
TAHERI, MR: Effects of a moving aircraft and temperature differential on response of rigid pavements, 1A888
- Static and dynamic analysis of concrete pavements including thermal warping effects, 4T131
TAHERZADEH, S: Propagation from a point source over a rough finite impedance boundary, 1A318
TAHIJA, SG: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
TAHMASEBI, F: Stiffness of a novel six-dof parallel manipulator, 4A402
TAI, CHANG-HSIEN: Improvement of explicit multistage schemes for central spatial discretization, 6T35
TAI, CHING-CHI: Prediction of cutting forces in the ball-end milling process, 6A575
TAI, K: Optimum shape design and positioning of features using the boundary integral equation method, 12A824
TAI, RUEY-SHIH: U-parameter robust flight control design, 1T404
TAI, TC: Simulation of DD-963 ship airwake by Navier-Stokes method, 5T1020
TAI, TSZE C: Simulation and analysis of V-22 tiltrotor aircraft forward-flight flowfield, 9A1220
TAI-HUA, FENG: Efficient method for elastic-plastic analysis of destructive structures, 9A512
TAIGBENU, AE: Green element simulations of the transient nonlinear unsaturated flow equation, 3A47
TAIK, A: Linear stability analysis of reaction fronts in liquids, 11A980
TAINE, J: Analysis of laser beam deviation fluctuations in a turbulent nonisothermal flow and relevance to c_N, 2A990
TAIROVA, LP: Identifying the properties of individual plies constituting hybrid composites, 8A457
TAIT, RJ: Impact problem for a nonlinear elastic membrane with non constant boundary conditions, 1A605
- Dynamic extension and twist of a nonlinear elastic tube, 5A176
- Note on hyperbolic heat conduction in a rigid solid, 6A1112
TAJIRI, GC: Mathematical model of a time and position variant external load on a gear tooth using the modified Timoshenko beam equation, 12A957
TAKABATAKE, H: Simplified analysis of circular plates including voids, 3A535
- Simplified analysis of rectangular cellular plates, 9A582
TAKABTAKE, H: Simplified dynamic analysis of slender tapered thin-walled towers with additional mass and rigidity, 8A109
TAKAC, P: Convergence in the part metric for discrete dynamical systems in ordered topological cones, 9T152
TAKACS, I: Case studies in dynamic modeling of large-scale wastewater treatment plants, 11A1448
TAKACS, M: Image processing system for measuring geometrical properties of fibers and yarns, 6T590
TAKADA, T: Study on smart composite beam: Optimal vibration control of 1st flexural mode by use of piezoelectric ceramics (Japanese), 4A800
- Development of multiaxial creep testing machine using cruciform specimen (Japanese), 12A783
TAKAGI, R: New design technique for pre-stressed loads of a cable-stayed bridge, 4A820
TAKAGI, T: Photoforming applied to fine forming, 6A588
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
TAKAHAGI, T: Near field sound radiation from simply supported rectangular plates, 1A325
TAKAHASHI, A: Experimental study of flexural vibration of wooden beams by Levinson beam theory, 5T118
- Anisotropic shear modulus of wood-based composite (Japanese), 12T531
TAKAHASHI, C: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
TAKAHASHI, D: Effects of panel boundedness on sound transmission problems, 3A247
- Acoustic properties of an infinite elastic plate backed by multiple layers, 9A339
- Acoustic properties of permeable membranes, 10A361
TAKAHASHI, F: Characteristics of a velocity-modulated pressure-swirl atomizing spray, 2A933
- Fatigue crack propagation behavior of fiber metal laminate: Influences of initial notch length and pre-stretching (Japanese), 10A731
TAKAHASHI, H: Cross effect in aluminium tubes subjected to torsion and tension, 7A525
- Study on virtual reality of NC programming for free-form surfaces (Japanese), 7T748
- Numerical simulation of bucket trajectory control in autonomous shoveling of fragment rocks by using a wheel dozer (Japanese), 10A688
TAKAHASHI, I: Axial heat-transfer characteristics enhanced by an oscillating fluid in a thin tube, 2A1083
- Optical technique for detecting minute-amplitude standing waves on a liquid jet, 4A1016
- Vibration and stability of a nonuniform doubly-beam subjected to follower forces, 10A628
TAKAHASHI, J: High-speed photography study on engagement process of wet clutch, 7A1193
TAKAHASHI, K: Vibration, buckling and dynamic stability of a non-uniform rectangular cantilever plate with thermal gradient resting on a Pasternak foundation (Japanese), 1A662
- Unsteady heat transfer and particle behavior around a horizontal tube bundle near an expended bed surface of a gas fluidized bed: Conditional sampling statistical analysis, 2A1220
- Influence of the stiffness of the measurement system on the elastic adhesional contact, 3A872
- Chaotic vibration of a small sag cable under sinusoidally time-varying load (Japanese), 5A127
- Natural frequencies of orthotropic rectangular plates obtained by iterative reduction of the partial differential equation, 7A160
- Analysis of aerodynamic noise by distributed monopole method, 7T323
- Interlaminar fracture analysis of composite DCB specimens, 8A651
- Effect of the stiffness of the measurement system on adhesion force curves in the elastic continuum limit, 8A391
- Vibration, buckling and dynamic stability of anti-symmetric angle-ply laminated rectangular plates (Japanese), 11A118
- Fracture behavior of unidirectional commingled-yarn-based carbon fiber-polyamide 6 composite under three-point bending, 11A666
TAKAHASHI, M: Measurement of surface roughness with small waviness by contact stylus instrument correcting specimen orientation, 1A863
- Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - 1st report: Theoretical foundation, 3A739
- Effects of molecular weight distribution on dynamic viscoelasticity and biaxial extensional flow behavior of polystyrene melts, 4A886
- Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - Second report: Simulation and experimental verification, 7T894
- Experimental studies of supersonic film cooling with shock wave interaction, 7A1096
TAKAHASHI, N: Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, 3A564
TAKAHASHI, O: Fundamental study on strain dispersion function of the grid panel type buried joint (Japanese), 9A879
TAKAHASHI, S: Measurement of transiently changing flow rates in oil hydraulic column separation, 7T1189
- Methodology of evaluating a frictional coefficient and a deformation modulus based on geosythetics pull-out tests (Japanese), 10A666
- Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
TAKAHASHI, T: Structure formation and strength development at early stage of hydration of rapid hardening portland cement (Japanese), 4A481
- First integral approach to nonlinear motion analysis of a two-link system, 11A382
TAKAHASHI, Y: Computer simulation on deformation of engineering materials at high temperatures - III: Application to structural analysis (Japanese), 3T477
- Experimental study of interfacial contacting process controlled by power law creep, 5A448
- Effect of surface asperity on interfacial contact process controlled by power law creep: Numerical study of viscoplastic adhering process, 5A446
- Study on practical design method for shear of reinforced concrete slabs loaded near free edge (Japanese), 9A925
- Study on laser braking of glass plate (1st Report): Generation and growth of vertical cracks by scribing (Japanese), 9A743
TAKAHASI, H: Positioning system for mobile robot using LED marks (Japanese), 5A362
TAKAHATA, H: Energy flowing rate into workpiece surface grinding based on 3D temperature analysis - 1st report: Discussion on temperature distribution in workpiece measured by hole method (Japanese), 7A751
TAKAHATA, R: Structure of superconducting magnetic bearings and its applications (Japanese), 3T844
TAKAHIRA, H: Nonlinear oscillations of a cluster of bubbles in a sound field: Bifurcation structure, 1A1039
TAKAJI, K: Initiation and growth characteristics of corrosion pits in steels (Japanese), 4T679
TAKAKI, R: Numerical analysis of nonlinear stability of a 2D uniform fluidized bed - Part 1: Numerical check of linear stability, 8A1316
TAKAKU, A: Estimation of fiber and interfacial shear strength by using a single-fiber composite, 3A496
TAKAKURA, N: Suppression of free surface roughening of metal with plastic deformation, 6A826
- High-speed photography study on engagement process of wet clutch, 7A1193

TAKALA, E-P: Static shoulder model based on a time-dependent criterion for load sharing between synergistic muscles, 8A1414
TAKAMASU, K: Measurement of 3D objects using gray code projection (Japanese), 2A705
- Software for profile measurements (Japanese), 2T350
- Data processing and calibration of coordinate measuring machine, 3A740
- On-line process control based on geometrical parameters from measured data in machining process (Japanese), 7A482
TAKAMATSU, Y: Air-water two-phase flow performance of centrifugal pump impellers with various blade angles, 11T1048
TAKANASHI, S: Genetic optimization of target pressure distributions for inverse design methods, 10A1025
TAKANASHI, T: Development of cryosorption pump for neutral beam injector, 11A1051
TAKANISHI, A: Image processing by using fine motion of visual sensor (Japanese), 4A388
TAKANO, K: Enhancement of evaporation of a liquid droplet using EHD effect: Criteria for instability of gas-liquid interface under electric field, 8A1146
TAKANO, M: Simultaneous measurements of flow rates and particle concentrations in heterogeneous solid-water two-phase flows by means of one venturi, 1T1033
- Measurement of 3D position and orientation of robot using ultrasonic waves (3rd report): Estimation of the accuracy of 3D position measurement of the developed system (Japanese), 1A428
- Positioning system for mobile robot using LED marks (Japanese), 5A362
TAKANO, N: Analysis of single-layered corrugated core sandwich plate by homogeneous method: On the application of homogenization method to composite structures with only planar periodicity (Japanese), 1A561
- Numerical analysis of deterioration phenomena in heat transfer to supercritical water, 1A1206
- Development of 3D FEM for composite materials based on damage mechanics (Japanese), 1A17
- Nonlinear analysis of woven fabric composite materials by homogenization method considering microscopic fracture (Japanese), 4A502
- Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), 9A554
TAKANO, T: Vaporization behavior of a single droplet impinging on a hot surface with a flame-sprayed ceramic coating and a pressurized atmosphere, 9A1262
TAKANO, Y: Bone mineral lies mainly outside collagen fibrils: Predictions of a composite model for osteonal bone, 12A1443
TAKAO, H: Vibration analysis of curved panels with variable thickness, 11A116
TAKAOKA, S: Simplified 3D simulation of non-isothermal filling in metal injection molding by the FEM, 11A609
TAKASAKI, K: Polygonal deformation of roll-covering rubber, 9A278
TAKASE, S: Response statistics of moored offshore structures, 5A986
TAKASHIMA, M: Stability of the modified plane Poiseuille flow in the presence of a transverse magnetic field, 10A1190
TAKASHIMA, N: Wedge-cone waverider configuration for engine-airframe integration, 2T1031
TAKASHIMA, Y: Monitoring of friction welded joint performance using bonding evaluation factor, 7T480
TAKASHITA, J: Secular changes in accuracy of an adhesive-bonded structure vertical milling machine, 7A485
TAKATA , S: Analysis of island-delamination type cracking pattern in the brittle film coated on disk under axisymmetric tension (Japanese), 9A774
TAKATA, S: Flow induced around a sphere with a non-uniform surface temperature in a rarefied gas, with application to the drag and thermal force problems of a spherical particle with an arbitrary thermal conductivity, 1T1030
- Task-oriented structural design of manipulators based on operability evaluation (Japanese), 3A417
TAKATANI, Y: Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), 6A618
TAKATSU, H: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
TAKATSU, M: Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), 4A1233
TAKATSU, Y: Turbulence model for flow through porous media, 11A1334
TAKATSUBO, J: Propagation mechanism of ultrasonic waves in porous ceramics, 10A863
TAKATSUKA, H: Mechanism of fast fluidization and vertical profile of solid concentration in fast fluidized beds: Regime of fast fluidization, 11T1329
TAKAURA, K: Failure diagnostic system on air-operated control valves using neural network, 8A354
TAKAWA, T: Study on smart composite beam: Optimal vibration control of 1st flexural mode by use of piezoelectric ceramics (Japanese), 4A800
TAKAYA, Y: Calibration method of optical system roughness error for the random micro-roughness measuring apparatus, 1T862
TAKAYAMA, K: Computational study of shock wave focusing in a log-spiral duct, 3A210
- Experimental investigation on tunnel sonic boom, 3T208
- Flow through a perforated surface due to shock-wave impact, 11A206
TAKEBA, K: Wave equation over permeable rippled bed and analysis of Bragg scattering of surface gravity waves, 7A270
TAKEDA, K: Particle separation using acoustic radiation force and electrostatic force, 9A352
- Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379
TAKEDA, N: Interaction between transverse cracks and delamination during damage progress in CFRP cross-ply laminates, 3A697
- Microscopic fatigue damage progress in CFRP cross-ply laminates, 4A672
- Approximate analysis of the stress state near the fiber ends of short fiber-reinforced composites and the consequent microfracture mechanisms, 9A531
TAKEDA, S: High-speed observations of highly erosive vortex cavitation using image processing, 5T872
TAKEDA, T: Studies on molecular diffusion and natural convection in a multicomponent gas system, 4A1165
- Effects of soil-structure interaction on seismic response of PC cable-stayed bridge, 4A1327
TAKEDA, Y: Motion transmissibility of in-parallel actuated manipulators, 6A357
- Kinematic and static characteristics of in-parallel actuated manipulators at singular points and in their neighborhood, 9A448
TAKEI, H: Visualization of solidification process in kinetics control system with interferometry, 1A1263
TAKEI, Y: Comparison of techniques used by elite gymnasts in performing the basket-to-handstand mount, 12A1492
TAKEMASA, F: Present activities for the preparation of a Japanese draft of structural design guidelines for the experimental fusion reactor, 12T871
TAKEMIYA, H: Along-axis seismic behavior of shield tunnels in irregular alluvium on half-space soil (Japanese), 5A1315
- Transversal seismic analysis of shield tunnels in layered half-space soils (Japanese), 5A728
- Wave motions during soil-structure interaction by time domain BEM (Japanese), 5A551
- Approximation to strip impulse response of a half-space and interpretation of DSSI from wave scattering-propagation (Japanese), 5A178
TAKEMURA, J: Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), 4A623
- Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), 7A708
TAKENAKA, H: Efficient approach to the seismogram synthesis for a basin structure using propagation invariants, 11A1386
TAKENO, T: Flame-controlling continuation method for generating S-curve responses with detailed chemistry, 8A1248
TAKEO, M: Source process of the 1995 Kobe earthquake: Determination of spatio-temporal slip distribution by Bayesian modeling, 12A1362
TAKEOKA, E: High speed end milling of hardened steel - 1st report: Dynamic characteristics of air spindle and surface roughness (Japanese), 7A741
TAKESHITA, T: Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
TAKEUCHI, K: Stability of liquid CO_2 in seawater at high pressures, 3A957
TAKEUCHI, Y: Method of collision avoidance for 5-axis control machining using 2D configuration space (Japanese), 7A446
- Six-axis control finishing for character line (Japanese), 9A734
TAKEWAKA, K: Fundamental study on bond behavior of various FRP rods in pretensioned PC members, 6A749
TAKEWAKI, I: Optimal frequency design of tower structures via an approximation concept, 4A792
TAKEYA, MK: Correlation of seismicity and water level in the Acu reservoir: An example from Northeast Brazil, 3A1304
TAKEZONO, S: Nonlocal damage mechanics approach to high-temperature fatigue crack growth, 8A577
TAKHAR, HS: Finite-difference analysis of the stability of flow in a curved channel wide-gap problem, 1A45
- Weak discontinuities in a chemically reacting atmosphere, 3A917
- Nonsimilar mixed convection flow of a non-Newtonian fluid past a vertical wedge, 5A1135
- Radiation effect on mixed convection along a vertical plate with uniform surface temperature, 10A1264
- Unsteady 3D flow due to a stretching flat surface, 11T884
- Compressible boundary layer flow over a moving surface with a magnetic field, 11A1006
- Anisotropic wave propagation in radiating gases, 11A207
TAKHIROV, SM: Double wave diffraction by a massive strip lying on a transversally isotropic half-space, 7A244
TAKI, AH: Convective heat transfer coefficients at a plane surface on a full-scale building facade, 8A1118
- Surface convection coefficients for building facades with vertical mullion-type protrusions, 10A1316
TAKI, T: Friction and wear characteristics of gears in high vacuum, 12A956
TAKI, Y: Vibration of a cantilevered beam during deployment and retrieval: Analysis and experiment, 7A145
TAKIGUCHI, K: Empirical investigation on buckling and post-buckling behavior of coil liners, 11A538
TAKIGUCHI, T: Development of hybrid rail brake, 6A842
TAKIKAWA, K: Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, 1A260
TAKIMOTO, K: Energy dissipation capability of reinforced concrete bridge piers that fail in flexure at bottom (Japanese), 9A914
- Simulation of emergency evacuation behavior during disaster by using distinct element method (Japanese), 11A1475
- Simulation of evacuation behavior in a disaster and its interaction with guide's instructions (Japanese), 11A1476
TAKIMOTO, M: Studies of super-smooth polishing on aspherical surfaces, 1A739
- Studies on super-smooth polishing (2nd Report): Deconvolution algorithm for corrective polishing (Japanese), 9T736
TAKINAMI, M: Optimization of generalized potential in mission function control: Analytical and experimental results, 6T291
TAKITA, K: Asymptotic analysis on the extinction of diffusion flames in supersonic stagnation-point flow, 11A1288
TAKIZAWA, H: Color drawing on ceramic surface by YAG laser irradiation (Japanese), 1A435
- Selective refinement of 3D scene description by attentive observation for mobile robot, 11T377
TAKSAR, M: Deterministic approximation for stochastic control problems, 7A386
TAKUDA, H: Finite element analysis of edge lamination during hot rolling process of aluminum alloy, 1A716
- Deformation process of a water droplet impinging on a solid surface, 5A918
TALAGRAND, O: Extending the limits of variational assimilation in nonlinear chaotic systems, 8T82
TALASLIDIS, DG: Seismic analysis of buried pipeline in a 3D soil continuum, 4A1328
TALBOT, DRS: Stationary diffusion in heterogeneous media, 12A1291
TALBOT, L: Dynamical behavior of a premixed turbulent open V-flame, 4A1260
TALBOT, PD: Performance based optimization of high speed prop-rotors, 1A1135
TALER, J: Semi-numerical method for solving inverse heat conduction problems, 8A1157
TALESNICK, M: Kinematic hardening of soft clay in simple shear, 4A602
- Normalized nondegrading behavior of soft clay under cyclic simple shear loading, 6A527
TALIB, IA: Effect of element additions on wear property of eutectic aluminum-silicon alloys, 12A901
TALIYAN, SS: Experimental study of the discharge coefficient of pipe perforations, 3A877
TALJA, H: Comparative analyses concerning integrity of a VVER-440 reactor pressure vessel, 3A1358
TALKE, FE: Pole tip recession: Investigation of factors affecting its measurement and its variation with contact start-stop and constant speed drag testing, 5A814
- Tribological problems in magnetic disk recording technology, 5A806
- Head-tape interface: A critical review and recent results, 8A793
- Effect of surface roughness on the head-tape interface, 10A993
TALLIAN, TE: Data-fitted rolling bearing life prediction model - Part II: Model fit to the historical experimental database, 8T813
- Data-fitted rolling bearing life prediction model - Part III: Parametric study, comparison to published models and engineering review, 8T814
- Data-fitted rolling bearing life prediction model - Part I: Mathematical model, 8A812
TALU, O: Behavior and performance of adsorptive natural gas storage cylinders during discharge, 8A1375
TALWAR, KK: Higher order FE techniques for viscoelastic flow problems with change of type and singularities, 1A484
TALWAR, S: Approximate feedback linearization: A normal form approach, 12A363
TALYZIN, VA: Problem of optimal order placing for component articles, 11A402
TAM, CHUNG-JEN: Comparison of Baldwin-Lomax turbulence models for 2D open-cavity computations, 8T964
TAM, CKW: Supersonic jet noise, 2A217
- Computational aeroacoustics: Issues and methods, 3A293
- Computation of turbulent axisymmetric and nonaxisymmetric jet flows using the K-ε model, 7A1109
- Prediction method for broadband shock-associated noise from supersonic rectangular jets, 9A1096
- Time-domain impedance boundary conditions for computational aeroacoustics, 10A384
TAM, MT: Acoustic-emission Kaiser effect in fly-ash cement mortar under compression, 3A519
TAMAI, A: Development of a novel technique to measure rock mass behavior in a borehole (Japanese), 7A718
TAMAI, K: Measurement of thermal fracture toughness of ceramics by heating restricted slab specimens (Japanese), 4A1233
TAMAI, M: Study on interaction between turbulence generated by uniformly falling particles and oscillating grid turbulence, 3A1347
TAMAI, Y: Near field sound radiation from simply supported rectangular plates, 1A325
TAMAKI, S: Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, 9A413
TAMAKLOE, RY: Power output of Al/SnO_2/n-Si solar cell, 11A1428
TAMAKOSHI, T: Analytical study on excitation of nuclear-coupled thermal hydraulic instability due to seismically induced resonance in BWR, 11A1425
TAMAMIDIS, P: Comparison of pressure-based and artificial compressibility methods for solving 3D steady incompressible viscous flows, 8A907
- Segregated prediction of 3D compressible subsonic fluid flows using collocated grids, 12A1067
TAMARU, T: Research reviews on flameholders and combustion of an afterburner and a Ramjet engine, 7A1347
TAMBOUR, Y: Mass exchange between droplets during head-on collisions of multisize sprays, 2A1165
- Solution of a class of polydisperse spray problems, 8A937
- New heterogeneous burning velocity formula for the propagation of a laminar flame front through a polydisperse spray of droplets, 8A1250
TAMER, SM: Robustness of adaptive unbalance control of rotors with magnetic bearings, 6A330
TAMILSELVAN, T: Unified model for fracture mechanics, 10A767
TAMINE, T: Use of notch stress intensity factor as a fatigue crack initiation parameter, 2A564
TAMMA, KK: Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 1: Theory for linear structural dynamics, 1A111
- Virtual-pulse time integral methodology: A new approach for computational dynamics - Part 2: Theory for nonlinear structural dynamics, 1A112
- Effective data parallel self-starting explicit methodology for computational structural dynamics on the connection machine CM-5, 2A126
- Three-dimensional transient thermal analysis with explicit FE representations - Parallel implementations and performance studies: The connection machine (CM-5), 4A1213
- Finite element simulations involving simultaneous multiple interface fronts in phase change problems, 8A1168
- Robust explicit computational developments and solution strategies for impact problems involving friction, 8A191
- Developments encompassing stress based FE formulations for materially nonlinear static and dynamic problems, 8A31
- Overview of recent advances and evaluation of the virtual-pulse (VIP) time-integral methodology for general structural dynamics problems: Computational issues and implementation aspects, 11A158
TAMPIERI, F: Analysis of similarity laws in a pressure-gradient boundary layer over gentle obstacles, 2A1265
TAMURA, C: Proposal of a seismic isolation structure for urban tunnels and the method to evaluate its isolation effects (Japanese), 5A1326
TAMURA, H: Method for inspection of spiral bevel gears in Klingelnberg cyclo-palloid system, 9A998
TAMURA, M: Measurement and prediction of the reflection coefficient of porous layers at oblique incidence and for inhomogeneous waves, 6A244
TAMURA, T: Study of proposed design equation for the shear strength of R-C beams subjected to axial tension (Japanese), 2A764
TAMURA, Y: Scattering and diffraction of a plane wave by a randomly rough half-plane, 3A187
- Effectiveness of tuned liquid dampers under wind excitation, 4A216

- Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210
TAMUZS, V: Tensorial representation of the orientation distribution function of internal structure elements for heterogeneous solids, 11A433
TAN , KCK: Tolerance stack analysis for assembly, 11A404
TAN, A: Analysis of the Solwind fragmentation event using theory and computations, 7A986
TAN, BENKUI: Propagation of an envelope Rossby soliton over topography, 5A199
TAN, CL: Calibration of the localized DCPD method for crack shape measurement using the BEM, 1A53
- Three-dimensional contact mechanics analysis of crack problems using the BEM, 3A438
- Boundary integral transformation of body-force volume integral in BEM for 2D anisotropic elasticity, 8A63
- Boundary element analysis of orthotropic delamination specimens with interface cracks, 12A773
TAN, CS: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
- Design study of radial inflow turbines with splitter blades in 3D flow, 11A1058
- Computational study of viscous effects on lobed mixer flow features and performance, 11A1072
TAN, DM: Cracks at mortar-stone interfaces, 2A643
- Fracture resistance to the crack propagation in wood, 12A762
TAN, DONGYAO: Discrete analysis method for structural correlation responses, 3A798
TAN, FU: Precision calorimetric studies of H_20 electrolysis, 1A1163
TAN, HANCHEN: Dam-foundation rock interaction effects in frequency-response functions of arch dams, 4A1329
- Earthquake analysis of arch dams including dam-water-foundation rock interaction, 4A1330
- Dam-foundation rock interaction effects in earthquake response of arch dams, 10A1429
TAN, HUIFENG: Three-dimensional FE nonlinear analysis of membranes, 9A583
TAN, KANG-HAI: Effect of embedment length of tension reinforcement on the behavior of light-weight concrete deep beams, 7A933
- Performance of strengthened concrete deep beams predamaged in shear, 9A921
TAN, KIANG-HWEE: Steel fibers as shear reinforcement in partially prestressed beams, 5A713
- Reinforced concrete T-beams with large web openings in positive and negative moment regions, 11A761
TAN, KS: Comparison of Lamb waves and pulse echo in detection of near-surface defects in laminate plates, 2A698
TAN, M: Analysis of cracks perpendicular to bimaterial interfaces using a novel FE, 6A686
TAN, MINGAN: Dynamic analysis of cracks perpendicular to bimaterial interfaces using a new singular FE, 11A32
TAN, MINYU: Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, 10A1233
TAN, NH: Alternative approaches to Melnikov analysis for forced oscillators, 4A116
TAN, QINGSHENG: Fiber-ribbon positioning device, 6T348
TAN, R-S: Dry sliding wear of an alumina short fiber reinforced Al-Si alloy against steel, 12A900
TAN, RY: Identification of dynamic properties of isolated structures, 7A212
TAN, SH: Connections in cold-formed thin-walled structures, 11A830
TAN, TEONG E: Optimization of the clubface shape of a golf driver to minimize dispersion of off-center shots, 5A695
TAN, TJ: Buckling of tapered circular plates: Allowances for effects of shear and radial deformation, 11A548
TAN, TM: Computational methodology to predict damage growth in unidirectional composites - I: Thoeretical formulation and numerical implementation, 4A721
- Computational methodology to predict damage growth unidirectional composites - II: Case studies, 4A722
TAN, VBC: Modeling deformation and damage characteristics of woven fabric under small projectile impact, 1A218
TAN, WB: Management of an assembly line: An investigation of product mix using simulation, 12A477
TAN, X: Equivalent viscous damping models of Coulomb friction in multi-dof vibration systems, 1A183
TAN, YE FA: Theory and practice of "spontaneous protective layer" in soil cutting, 5A557
TAN, YEN-HUNG: Effects of beryllium on fatigue crack propagation of A357 alloys containing iron, 9A754
TAN, YS: Optical NDE methods in the People's Republic of China: Special Issue, 11T707
TAN, ZHICHENG: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
TAN, ZHIQIANG: Numerical simulation of the blast-wave accelerator, 12A254
TANABE, M: Two stage ignition of a n-heptane isolated droplets, 5A1213
TANABE, N: Articulated robot application in end milling of sculptured surface, 12A462
TANABE, T: Application of Kosloff and Frazier's hourglass control method in nonlinear analysis, 11A5
TANABE, T-A: Time dependent behavior of concrete in early ages and its modeling (Japanese), 2A415
TANABE, T-A: Mathematical modeling for permeable behavior of non-homogeneous material and its applicabilities (Japanese), 6A1178
- Analytical study on predicting pore water pressure occuring in concrete and its effects (Japanese), 6A959
- Finite element with inner linkage rods in capturing the crack localization of concrete structures, 6A599
TANAHASHI, M: Inflow and outflow boundary conditions for direct numerical simulations, 11A907
TANAHASHI, T: New hybrid-streamline-upwind FEM in dual space: Fundamental theory and discrete Del operator, 7T31
TANAKA , K: Elasticity of nanoindentation, 7T1003
TANAKA, C: Experimental study of flexural vibration of wooden beams by Levinson beam theory, 5T118
- Anisotropic shear modulus of wood-based composite (Japanese), 12T531
TANAKA, F: Information model of cutting tools for machining center in tool assembly: Representing models of parts structure, assembly, nominal size, and real size (Japanese), 12T468
TANAKA, H: Initial motion of sediment under waves and wave-current combined motions, 2A859
- Power transmission of half-toroidal traction drive continuously variable transmission: Four-wheel-drive CVT design and its performance, 6A845
- Half-toroidal traction drive continuously variable power transmission for automobiles: Traction drive materials, transmission design and efficiency, 6A844
- Simulation of solar radiation heat flux data for energy calculation, 7A1397
- Random thermal fatigue in fast breeder reactor: A narrow-band spectrum, 9A1279
- Development of 3D-measuring system by image processing: Application to dimensional inspection of small molded plastic electronic parts (Japanese), 9A873
TANAKA, K: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
- Recovery stress of TiNi shape memory alloy under constant strain, 1A1293
- Optimization of diamond grain size of polycrystalline diamond for cutting Al-16%Si alloy (Japanese), 2A542
- Hydrodynamic bearings (Japanese), 3T843
- Estimation of grinding flaw size of ground silicon nitride based on fracture mechanics (Japanese), 3A724
- R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), 3A647
- Engineering properties of carbonate sands and skin friction of pile in sands (Japanese), 4A598
- Periodic solutions of first order singular Hamiltonian systems, 5T92
- Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
- New trend of machine tools and the peripheral technology (Japanese), 7T744
- Transformation-induced plasticity (TRIP), 8A426
- Description of internal damage in FRP laminates by continuum damage mechanics (Japanese), 9A826
- Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, 9A1002
- J-integral approach to mode III fatigue crack propagation in steel under torsional loading, 11A626
TANAKA, M: Boundary Element Technology XI - Int Conf on Boundary Element Technology, BETECH 96, 10N2
- Determination of flow stress by inverse solution using FEM, 1A23
- Ductile-regime turning of quartz crystal, 1A722
- Optimum design of transient heat conduction fields using BE inverse analysis, 3A852
- Axial oil film rupture in high speed bearings due to the effect of the centrifugal force, 5A1083
- Experimental study on the thermohydrodynamic lubrication of tilted pad thrust bearings, 6T1050
- Theoretical and experimental investigation to determine crack direction of hydraulic fracturing by borehole acoustic emission sonde (Japanese), 7T779
- Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, 8A62
- Development of a high speed non-circular machining NC-lathe for cutting a piston-head of a reciprocating engine by use of a new servomechanism actuated by electromagnetic attractive force (Japanese), 9A706
- Application of BEM to 3D problems of coupled thermoelasticity, 9A1290
- Sensitivity analysis in vector optimization, 12T333
- Periodic thermal deformation of large seal ring, 12A965
TANAKA, N: Large-time existence of surface waves in incompressible viscous fluids with or without surface tension, 1T223
- Assessment and data processing on surface roughness instruments (Japanese), 2T713
- Use of optimally shaped piezoelectric film sensors in the active control of free field structural radiation - Part 1: Feedforward control, 5A281
- Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate, 7A169
- Active control of acoustic power radiated from a vibrating planar structure using smart sensors: Acoustic power suppression using adaptive feedforward control, 9A370
- Vibrational and acoustic power flow of an actively controlled thin plate, 9A433
- Three-dimensional particle tracking velocimetry with laser-light sheet scannings, 12A1205
TANAKA, R: Site-dependent attenuation relations of seismic motion parameters at depth using borehole data, 6A1270
TANAKA, S: Prediction of deformation behavior of glassy polymers based on molecular chain network model, 1A5
- Field observation of suspended sand concentration near the breaking point (Japanese), 3A888
- Development of incremental sheet metal forming system using elastic tools: Principle of forming process and formation of some fundamentally curved shapes, 9A700
- Method of simultaneous analysis of waves propagating in multilayered media by BEM, 12A222
TANAKA, T: Experimental verification of the theory of tangential grinding force and the rates of grinding actions: Grinding actions of the pored type diamond wheel with vitrified bond - Part 2 (Japanese), 1A731
- Reliability analysis of structural components under fatigue environment including random overloads, 2A745
- Tracing the equilibrium path by dynamic relaxation in materially nonlinear problems, 4A92
- Aseismic structure of the foundations of super long span bridges (Japanese), 4A817
- Characteristics of soil reactions of an open lugged wheel under paddy soil conditions, 8A774
TANAKA, Y: Machine parts visual inspection system using fuzzy-neural network (Japanese), 7A477
- Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
TANASAWA, I: Enhancement of evaporation of a liquid droplet using EHD effect: Criteria for instability of gas-liquid interface under electric field, 8A1146
TANCHUK, V: Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, 12A1229
TAND, JINCHUN: Mindlin's solution for axially symmetric problem of multilayer subsoils (Chinese), 11A413
TANDA, M: Constant false-alarm rate array detection of radom signals in spherically invariant noise, 1A345
TANDON, GP: Effective thermoelastic moduli of a unidirectional fiber composite containing interfacial arc microcracks, 9A1286
TANDON, S: Cohesive crack modeling of influence of sudden changes in loading rate on concrete fracture, 4A742
TANG , LIMIN: Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), 9A24
- Nonlinear quasi-conforming FEM and the hybrid-mixed FEM - II: On the Hu-Washizu variational principle (Chinese), 9T21
TANG , QI: Time dependent Ginzburg-Landau equations of superconductivity, 4A597
TANG , QIHENG: Molecular dynamics simulation of crack-tip processes in copper, 3A714
TANG, B: Acousto-ultrasonic technique applied to filled-polymer damage assessment, 5A1241
TANG, C: Accuracy assessment to applying 20-node solid elements to pressurized composite shells, 4A4
TANG, CHEN: New experiment-calculation mixing method used to determine stress intensity factors (Chinese), 9A800
TANG, CY: Damage mechanics applied to elastic properties of polymers, 2A662
- Simulation of turbulent burning velocities using aqueous autocatalytic reactions in a near-homogeneous turbulence, 9A1317
TANG, DM: Experimental investigation of 3D dynamic stall model oscillating in pitch, 2A1032
- Buckling and post-buckling behavior of a pipe subjected to internal pressure, 5A530
- Damping prediction for a stalled rotor in flap-lag with experimental correlation, 6A1037
- Experiments and analysis for a gust generator in a wind tunnel, 7A1199
TANG, DW: Non-Fourier heat conduction in a finite medium under periodic surface thermal disturbance, 8A1155
TANG, HT: Probabilistic evaluation of concrete containment capacity for beyond design basis internal pressures, 2A1269
- Finite pure bending of curved pipes, 12A593
TANG, J: Perturbation method for determining eigen-solutions of weakly damped systems, 4A137
TANG, JIANZHONG: New method of discrete trajectory planning for robot manipulators, 4A411
TANG, JIAXIANG: Elastoplastic dynamic buckling and postbuckling of square plates under solid-fluid slamming, 1A673
TANG, JINCHUN: New off-BEM for analyzing plate and shallow shell bending, 11A530
- Triangular plate bending element considered transverse shear strain deformation (Chinese), 11A41
TANG, JIONG: Structural reanalysis in configuration space by perturbation approach: A real mode method, 4A814
- Dynamic stability of a rotor filled or partially filled with liquid, 9A232
TANG, JIYE: Parallel algorithm for structural optimization (Chinese), 8A721
TANG, LI Q: Transient solutions by a least-squares FEM and Jacobi conjugate gradient technique, 1A1227
- Transient solutions for 3D lid-driven cavity flows by a least-squares FEM, 2A16
TANG, LIMIN: Mixed state Hamiltonian dynamic element and a semi-analytical solution for the analysis of thick laminated composite plates, 1A571
- Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), 3A143
- Semi-analytical solution for laminated composite plates in Hamiltonian system, 5A514
- Semi-analytical solution for the dynamic response of thick composite plates in Hamilton systems, 7A166
- Error estimates of semi-analytical solution of mixed state Hamiltonian element (Chinese), 8A22
- Effects of microstructure on the macroscopic elasto-plastic properties of metal matrix composites, 9A547
TANG, MH: Study on ignition criterion of a large carbon-char particle, 5A1212
TANG, NING: Statistical investigation of fatigue crack initiation and growth process based upon a large sample size experiment, 9A779
TANG, P: Active vibration control of rotating machinery with a hybrid piezohydraulic actuator system, 5A157
- Combined piezoelectric-hydraulic actuator based active vibration control for rotordynamic system, 5A697
- Use of imposed displacements to determine impact forces in a multiple blade shed incident, 5A1040
TANG, Q: Long time behavior of the Ginzburg-Landau superconductivity equations, 2A507
TANG, QIANGANG: Nonlinear oscillation analysis by an orthogonal function method, 4A201
TANG, RENJI: Cauchy singular integral equation method for transient antiplane dynamic problems, 10A819
TANG, RJ: Singular integral equation-BEM to solve the Saint-Venant bending problem of cracked cylinders, 4A70
TANG, RONGXI: Study of the solid modeling techniques adaptive to product modeling, 6T372
TANG, SC: Anisotropic stress resultant constitutive law for sheet metal forming, 7A729
TANG, SH: Surface abuse when machining cast iron (G-17) and nickel-base superalloy (Inconel 718) with ceramic tools, 7A749
TANG, SK: Sound generated from the interaction of two inviscid coaxial vortex rings moving in the same direction, 4A307
- Sound generation by a vortex ring collision, 5A262
- Vortex pairing as a model for jet noise generation, 9A346
TANG, SQ: Hydrodynamic instabilities, chaos and phase transition, 10A1167
TANG, SS: Development of an on-board fatigue processor for helicopters, 12A717
TANG, TIANXI: Relationship between fracture parameters from two parameter fracture model and from size effect model, 9A793
TANG, W: Dynamic pulse buckling of cylindrical shells subjected to external impulsive loading, 7A677
- Influence of crack depth and strength matching on deformation and plastic zone for welded joint specimen, 8A631
TANG, WEN-CHIEH: Methodology for comparison of hydraulic and thermal performance of alternative heat transfer fluids in complex systems, 1A1349
TANG, XIN: Ray chaos and eigenrays, 6A261
TANG, Y: Analysis of leakage in a twin screw compressor and its application to performance improvement, 4A1120
- Radiation boundary conditions in barotropic coastal ocean numerical models, 6A1291
TANG, YU: Active control of SDF systems using artificial neural networks, 12A369

TANG, YY: Three-dimensional solutions for coupled thermoelectroelastic response of multilayered plates, 4A1239
TANG, ZE-MEI: Fractal features of oscillatory convection in the half-floating zone, 2A1098
TANG, ZHEN'AN: Analysis of structural deviation of C-type piezoresistive pressure sensors using the FEM (Chinese), 8A526
TANGBORN, ANDREW V: Two and 3D heat transfer in mixed convection with streamwise periodic heating, 3A1059
TANGBORN, AV: Numerical simulations of mixing in a 2D periodic flow with buoyancy, 8A1097
TANGIRALA, S: Damage-mitigating control of mechanical structures: Experimental verification of the concept, 1A883
TANGSATITKULCHAI, C: Heat transfer characteristics in a small-scale fluidized bed boiler, 12A1344
TANGUAY, M: Four-dimensional data assimilation with a wide range of scales, 4T1345
TANGUY, PA: Determination of heat transfer coefficient between PVC and steel in vacuum extrusion calibrators, 6A1113
TANI , J: Exact method for analyzing elastodynamic response of anisotropic laminates to line loads, 1A570
TANI, A: Large-time existence of surface waves in incompressible viscous fluids with or without surface tension, 1T223
- Initial and initial-boundary value problems for a vortex filament with or without axial flow, 12A1036
TANI, J: Fluid-Sloshing and Fluid-Structure Interaction - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N13
- Sixth International Conference on Adaptive Structures Technology, 11N16
- Strip element method for characterization of flaws in sandwich plates, 3A745
TANI, JUNJI: Effect of boundary conditions on the stability of a cantilever pipe discharging and aspirating fluid, 9A318
TANI, T: Output variation of photovoltaic modules with environmental factors - I: The effect of spectral solar radiation on photovoltaic module output, 5A1355
TANI, Y: Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), 6A618
- Study on precision grinding of axisymmetrical form: Mechanism of form generation (Japanese), 11A605
TANIDA, M: Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, 7A788
TANIDA, Y: Pendelluft effect on gas exchange in high-frequency ventilation, 11A1467
TANIFUJI, A: Study on vibration-free load sensor, 1A416
TANIGAWA, Y: Three-dimensional transient thermal stress analysis of a nonhomogeneous hollow circular cylinder due to a moving heat source in the axial direction, 3A1173
- Transient heat conduction and thermal stress problems of a nonhomogeneous plate with temperature-dependent material properties, 7A1243
TANIGUCHI, H: Instability of laminar natural convection boundary layer flow on a vertical porous flat plate, 12A1141
TANIGUCHI, M: Friction and wear characteristics of gears in high vacuum, 12A956
TANIGUCHI, N: Flow behavior around stayvanes and guidevanes of a Francis turbine, 9A1240
TANIGUCHI, T: Application of lead-zirconate-titanate (PZT) films to the impact energy sensor (Japanese), 3A407
- High-precision grinding and turning for optics with 3D profile, 9A713
TANIIKE, Y: Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210
TANIKAWA, K: Search for collision orbits in the free-fall three-body problem - I: Numerical procedure, 7A308
TANIKURA, I: Fundamental study on damage and remaining fatigue life of RC slabs used for 23 years and their maintenance (Japanese), 11A642
TANIMOTO, C: Fundamental study on seismic wave propagating property through several kinds of rock joint under uniaxial stress (Japanese), 4T1325
TANIMOTO, K: Numerical experiments on low-frequency fluctuations on a submerged coastal reef, 7T1385
TANIMOTO, M: Experimental study of interfacial contacting process controlled by power law creep, 5A448
- Effect of surface asperity on interfacial contact process controlled by power law creep: Numerical study of viscoplastic adhering process, 5A446
TANIMOTO, T: Thermal stress analysis of the mass concrete structure based on temperature-dependent properties of concrete (Japanese), 2A775
- Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), 7A554
TANIMURA, S: Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, 7A253
- Three-dimensional numerical analysis of dynamic thermo-elastic and viscoplastic problem by the method of characteristics, 10A1331
TANINO, T: Sensitivity analysis in vector optimization, 12T333
TANISHITA, K: Large curvature effect on pulsatile entrance flow in a curved tube: Model experiment simulating blood flow in an aortic arch, 11A1465
TANKIN, RS: Bi-modal size distributions predicted by maximum entropy are compared with experiments in sprays, 7A1303
TANNEHILL, JC: Computation of hypersonic flows with finite catalytic walls, 1A1016
TANNENBAUM, AR: Multivariable stability margin optimization: A spectral tangential interpolation approach, 8T285
TANNER, A: Frictional action at lower limb-prosthetic socket interface, 10A1488
TANNER, JE: Isotope and parameter effects in a gas core nuclear propulsion reactor, 1A1347
TANNER, KE: Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, 1A1472
- Stress and strain distribution within the intact femur: Compression or bending, 7A1407
TANNER, RI: Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, 2A958
- Extrudate swell through an orifice die, 9A1045
- Viscoelastic flow between eccentric rotating cylinders: Unstructured control volume method, 12A1046
TANNER, SE: Validation of a numerical method for extracting liner impedance, 8A105
TANNY, J: Effects of interaction between Marangoni and double-diffusive instabilities, 4A964
TANOFF, MA: Computational and experimental studies of laser-induced thermal ignition in premixed ethylene-oxidizer mixtures, 5A1210
TANTRA, I: Parallel computation of radiation view factors between two arbitrarily oriented surfaces, 7A1259
TANUMA, K: Surface-impedance tensors of transversely isotropic elastic materials, 7A511
- Nonuniqueness theorem for an inverse boundary value problem in elasticity, 9A487
TANVEER, S: Well-posed numerical method to track isolated conformal map singularities in Hele-Shaw flow, 1T1011
- Time-evolving bubbles in 2D Stokes flow, 4A1014
TANYI, BA: Iterative solution of the incompressible Navier-Stokes equations on the meiko computing surface, 7A1070
TANZOSH, JP: Transverse motion of a disk through a rotating viscous fluid, 4A959
TAO , LIANG: Method of interface inversion in inhomogeneous media, 10A253
TAO , ZIYUN: Investigation of the corrosive wear of stainless steels in aqueous slurries, 11A645
TAO, BAOQI: Strain measurement in the smart composite, 10A913
TAO, GANG: Adaptive Control of Systems with Actuator and Sensor Nonlinearities - Series on Adaptive and Learning Systems for Signal Processing, Communications, and Control, 12R11
TAO, K: Nonlocal damage mechanics approach to high-temperature fatigue crack growth, 8A577
TAO, L: Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, 1A537
- Phase superposition processing for ultrasonic imaging, 12A796
TAO, MINGDE: Dynamic stability of a rotor filled or partially filled with liquid, 9A232
TAO, S: Design recommendations for bond of GFRP rebars to concrete, 8A744
TAO, WC: Effect of confinement and thermal cycling on the shock initiation of LX-17, 9A331
- Shock initiation of a heated ammonium perchlorate-based propellant, 9A333
TAO, WQ: Heat transfer and fluid flow characteristics of plate-array aligned at angles to the flow direction, 1A1178
- Experimental study on mass-heat transfer of circular jet impingement in cubical cavities, 2A1163
- Three-dimensional natural convection in an enclosure with an internal isolated vertical plate, 3A1047
- Forced convection in ducts with a boundary condition of the third kind, 3T1026
- Experimental study of natural convection heat transfer between an outer horizontal cylindrical envelope and an inner concentric heated square cylinder with two slots, 3A1037
TAO, X: Note on the experimentally determined elastodynamic response of a slider-crank mechanism featuring a macroscopically smart connecting rod with ceramic piezoelectric actuators and strain gauge sensors, 4A209
TAO, YX: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 11, 3N42
TAOI, N: Flow fields of interacting parallel supersonic free jets, 7T1114
TAPIA, RA: Formulation and theory of the Newton interior-point method for nonlinear programming, 12T350
TAPLEY, BD: New method for computing the spectrum of the gravitational perturbations on satellite orbits, 3A231
TAPLIN, DMR: Air-environment-creep interaction in a nickel base superalloy, 4A686
TAPOSU, I: Mechanical energy dissipation during oblique collisions of material points, 11A77
TAPPERT, FD: Kaneohe acoustic thermometer further validated with rays over 3700 km and the demise of the idea of axially trapped energy, 6A237
- Ray chaos and eigenrays, 6A261
TAPSIR, SH: Influence of masonry on time dependent deformations, 2A412
TARAKANOV, SI: Singularity of the temperature gradient near a sharp cut in a compound body, 10A898
TARANOV, GS: Heat transfer and limiting heat loads in water boiling on downward-facing plane and spherical surfaces, 1A1237
TARANTINO, AM: Modified age adjusted effective modulus method for composite beams with post-connected slab, 3A778
- Bifurcation and chaos in a bilinear constrained column - Part I: Stability analysis and nonlinear unperturbed dynamics, 3A93
- Bifurcation and chaos in a bilinear constrained column - Part II: Chaotic dynamics, 3A94
- Algebraic methods for creep analysis of continuous composite beams, 10A750
TARANTOLA, A: Information on elastic parameters obtained from the amplitudes of reflected waves, 1A208
- Boundary conditions and the source term for one-way acoustic depth extrapolation, 6A1245
TARASEVICH, SE: Determination of heat transfer through a vapor gap at boiling cryogenic liquid in the Leidenfrost regime, 11A1173
TARASOVA, GV: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
- Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209
TARBELL, JM: Modeling interstitial flow in an artery wall allows estimation of wall shear stress on smooth muscle cells, 5A1389
- Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, 6A1345
- Influence of non-Newtonian behavior of blood on flow in an elastic artery model, 9A1450
TARDU, S: Characteristics of single and clusters of bursting events in the inner layer - Part 1: Vita events, 6A989
TARGONYA, VP: Peculiarities of dynamic deformation of a round plate with holes, 7A164
TARIQ, AS: NO_x emissions and thermal efficiencies of small scale biomass-fueled combustion plant with reference to process industries in a developing country, 6A1197
TARLAKOVSKII, DV: Nonstationary waves radiated by a spherical shell in an elastic half-space, 7A224
TARMAN, IH: Karhunen-Loeve analysis of turbulent thermal convection, 6A992
TARN, JIANN-QUO: Three-dimensional asymptotic analysis of anisotropic inhomogeneous and laminated cylindrical shells, 5A508
- Elastic buckling of multilayered anisotropic plates, 8A507
- Three-dimensional asymptotic FEM for anisotropic inhomogeneous and laminated plates, 8A494
- Three-dimensional analysis of doubly-curved laminated shells, 10A616
- Asymptotic variational formulation for dynamic analysis of multilayered anisotropic plates, 12A186
TARNAI, T: Summation Theorems in Structural Stability, 8N22
TARNAVSKY, GA: Fast approximate calculation of the viscous heat-conducting gas flow around the forebodies, 5T910
TARNG, JH: Acoustic pulse propagation in a fluctuating ocean with range-dependent sound-speed profile, 9A349
TARNG, YS: Determination of optimal cutting parameters in wire electrical discharge machining, 2A563
- Study of backlash on the motion accuracy of CNC lathes, 8A555
- Detection of tool failure in end milling, 10A448
- Monitoring of drill fracture from the current measurement of a three-phase induction motor, 10A999
TARNO, UA: Composite suspended shells on cyclical plan, 10A891
TARNOW, V: Compressibility of air in fibrous materials, 10A362
TARPLEY, C: Stability derivatives for a hypersonic caret-wing waverider, 1A1122
TARRATS-SAUGNAC, A: Modeling laser grooving from an experimental and theoretical study of laser machining physics (French), 7A768
TARTAGLIA, GP: Irradiation devices and irradiation programs at the high flux reactor Petten for the investigation of the irradiation behavior of stainless steels, 3A1362
TARUMI, H: Study on vertical earth pressure distribution in sand by trap door test (Japanese), 10A668
TARVER, CM: Effect of confinement and thermal cycling on the shock initiation of LX-17, 9A331
- Shock initiation of a heated ammonium perchlorate-based propellant, 9A333
TARZIA, DA: Asymptotic behavior for the one-phase Stefan problem with a convective boundary condition, 10A1291
- Determination of unknown coefficients of a semi-infinite material through a simple mushy zone model for the two-phase Stefan problem, 12A1243
TASCH, U: Two-dof manipulator with adjustable compliance capabilities and comparison with the human finger, 5A360
TASDEMIROGLU, E: Effect of bottom reflectivity on ground heat losses for solar ponds, 3A1367
TASHIRO, H: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877
- Turbulent transport effect on hydrocyclone performance, 9A1430
TASHKINOV, A: Prediction of the transversal strength of unidirectional composites under combined loading (Russian), 2A654
TASHMAN, S: Modeling and simulation of paraplegic ambulation in a reciprocating gait orthosis, 5A1370
TASIC, Z: Modeling and analysis of woolen yarn extension, 12A1001
TASK COMMITTEE ON HYDRAUL ENG RES ADVOCACY, ASCE: Environmental hydraulics: New research directions for the 21st century, 9A1048
TASSIN, AL: Velocity field measurements of cavitating flows, 6A995
TASSOU, SA: Variable-speed capacity control in refrigeration systems, 5A1183
TASSOULAS, JL: Effects of external pressure on capacity of tubular beam-columns, 3A814
- Tubular members - Part I: Stability analysis and preliminary results, 6A503
- Tubular members - Part II: Local buckling and experimental verification, 6A504
TATARA, T: Dynamic investigation of prefabricated buildings with bearing concrete walls subjected to quarry blasts (Polish), 3A812
- Damping of vibration in precast buildings with bearing concrete walls, 3A151
- Damping of vibration in precast buildings with bearing concrete walls, 9A951
TATARSKII, VI: Tilt-invariant theory of rough-surface scattering: I, 3A189
TATE, M: Contact points identification in enveloping grasp, 12A434
TATEISHI, A: Study of seismic analysis method in the cross section of underground structures by means of static FEM (Japanese), 1A1391
TATEISHI, K: Local stress and fatigue strength of the joint between longitudinal and transverse ribs in orthotropic steel deck plate (Japanese), 1A616
TATEYAMA, K: Evaluation of ground properties in deep soil improvement method and its application to automization of construction (Japanese), 10T671
TATINENI, S: Coupling through move limits in multidisciplinary optimization, 8A710
TATONE, A: Nonstandard models for thin-walled beams with a view to applications, 12A611
TATSUOKA, F: Tracing the equilibrium path by dynamic relaxation in materially nonlinear problems, 4A92
TATSUTA , H: Calibration of horizontally articulated robot by rotation angle method (Japanese), 12A459
TATUTA, Y: Ergonomics and Mechatronics (Japanese), 1T1467
TAUCER, FF: Fiber beam-column model for nonlinear analysis of R-C frames - Part I: Formulation, 12A841
- Fiber beam-column model for nonlinear analysis of R-C frames - Part II: Applications, 12A842
TAUCHERT, TR: Cylindrical bending of hybrid laminates under thermo-electro-mechanical loading, 10A1339
TAULBEE, DB: Application of a nonlinear stress-strain model to axisymmetric turbulent swirling flows, 11A1003
TAVARES, SA: Thin conical shells with constant thickness and under axisymmetric load, 12A595
TAVARES, TS: Behavior of linear reconstruction techniques on unstructured meshes, 4A58
TAVOULARIS, S: Structure of highly sheared turbulence, 4A1082
TAWADA, M: Formulation of elevator door equation of motion, 12A968
TAY, CJ: Crack tip and notch tip plastic zone size measurement by the laser speckle technique, 4A713
- Determination of necking zone using laser speckle, 10A853
TAY, TE: Modeling deformation and damage characteristics of woven fabric under small projectile impact, 1A218
- Crack tip and notch tip plastic zone size measurement by the laser speckle technique, 4A713
- Dugdale solution for cracks at the edge of an elliptical hole in an infinite and finite plate, 5A628
- Empirical strain rate-dependent constitutive relationship for glass-fiber reinforced epoxy and pure epoxy, 7A576
- Stiffness loss of composite laminates with transverse cracks under Mode I and Mode III loading, 10A803

- Bonded boron-epoxy composite repair and reinforcement of cracked aluminum structures, 11A672
- Analysis of composite laminates with transverse cracks, 12A557
TAYLER, C: Effect of precast concrete planks on shear connector strength, 7A934
TAYLOR , PH: Detailed kinetic model of the high-temperature pyrolysis of tetrachloroethene, 8A1264
TAYLOR JR, LW: Vibrations of the low power atmospheric compensation experiment satellite, 1T405
- Optimal modal-space controller for structural damping enhancements, 1A380
TAYLOR, AG: Effect of damping on the stability of a FE model of a flexible non-axisymmetric rotor on tilting pad bearings, 2A815
TAYLOR, AMKP: Evaluation of an amplitude-sizing anemometer and application to a pulverized coal burner, 8A1282
TAYLOR, C: Lubricants and Lubrication - Proc of 21st Leeds-Lyon Symp on Tribology, Leeds, UK, September 1994, 7N24
TAYLOR, CA: Investigation into the base sliding response of rigid concrete gravity dams to dynamic loading, 6A1275
TAYLOR, D: Prediction of fatigue behavior in stress-concentrators of arbitrary geometry, 9A764
TAYLOR, DAW: Strain gauge proof hydraulic testing of commercial pressure vessels, 10A873
TAYLOR, DP: Testing procedures for high output fluid viscous dampers used in building and bridge structures to dissipate seismic energy, 1A1401
TAYLOR, ED: Local measurements of velocity fluctuations and diffusion coefficients for a granular material flow, 6A1220
TAYLOR, GA: Solution of the elastic and visco-plastic constitutive equations: A finite volume approach, 4A455
- Obtaining initial parameter estimates for chaotic dynamical systems using linear associative memories, 9A160
TAYLOR, HM: Underseepage analysis of levees on two-layer and three-layer foundation, 8A540
TAYLOR, JC: Blunt body rarefied wakes for Earth entry, 1A1015
TAYLOR, JE: Optimization of structure and material properties for solids composed of softening material, 9A891
TAYLOR, JR: Convection in a long box driven by heating and cooling on the horizontal boundaries, 9A1072
TAYLOR, LK: Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, 4A979
TAYLOR, M: Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, 1A1472
TAYLOR, ME: Stress and strain distribution within the intact femur: Compression or bending, 7A1407
TAYLOR, MF: Turbulent Prandtl number in the near-wall region for low-Prandtl-number gas mixtures, 7A1131
TAYLOR, N: Experimental and theoretical studies in subsea pipeline buckling, 3A558
TAYLOR, NP: Maintenance of a commercial fusion power station and its implications for safety, 11T1474
TAYLOR, P: RE (Ted) Munn - Founding editor: A mini-biography, 12A1422
TAYLOR, PA: Turbulent boundary-layer flow over fixed aerodynamically rough 2D sinusoidal waves, 10A1177
TAYLOR, PD: Experimental investigation of the flow through an axial-flow pump, 5A1050
TAYLOR, PH: High-temperature pyrolysis of hexachloropropene: Kinetic analysis of pathways to formation of perchloro-arylbenzenes, 11A1285
- High-temperature pyrolysis of 1,3-hexachlorobutadiene, 12A1316
TAYLOR, R: Effect of actuator nonlinearities on aeroservoelasticity, 8A1016
TAYLOR, RE: New higher-order BEMs for wave diffraction-radiation, 5A210
TAYLOR, RH: Interference-free insertion of a solid body into a cavity: An algorithm and a medical application, 11A397
TAYLOR, RP: Comparison of reciprocity and closure enforcement methods for radiation view factors, 3A1126
- Application of uncertainty analysis to cross-flow heat exchanger performance predictions, 7A1262
- Evaluation of correlated bias approximations in experimental uncertainty analysis, 10A1209
- Asymmetric systematic uncertainties in determination of experimental uncertainty, 12A343
TAYLOR, SR: Are L_{xx} spectra from NTS explosions self-similar?, 11A1383
TAYLOR, SW: Effect of turbulence on sediment deposition, 1A975
TAYLOR, TW: Realistic 3D left ventricular ejection determined from computational fluid dynamics, 4A1365
- Effects of cardiac infarction on realistic 3D left ventricular blood ejection, 9A1447
TAZEROUT, ML: Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), 10A1236
TCHAVDAROV, B: Linear stability in systems with intensive mass transfer - I: Gas (liquid)-solid, 11A1263
TCHAVDAROV, BM: Onset of folding in plane liquid films, 7A1125
TCHIFTCHIBACHIAN, A: Comparison of two higher order FE models for composite materials and experimental validation, 1A580
TEAGLE, A: Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, 10A366
TEARE, JD: Effect of SO_2 and NO on the conversion of fuel nitrogen to N_2O and NO in single particle combustion of coal, 3A1215
TEBOUB, Y: Free vibration of generally layered composite beams using symbolic computations, 5A120
TEDESCHI, G: Turbulent incompressible flow within a channel with transpiration - Solution of the coupled problem porous wall: Main flow, 10A1145
TEEL, AR: Non-holonomic control systems: From steering to stabilization with sinusoids, 2A270
TEERTSTRA, P: Modeling transient conduction from isothermal convex bodies of arbitrary shape, 1A1258
TEETS, RE: Computational and experimental studies of laser-induced thermal ignition in premixed ethylene-oxidizer mixtures, 5A1210
TEGNER, JK: Comparison of parallel programming models for multiblock flow computations, 5A68
TEIN, W-Y: Heuristic spectral estimation of bivariate nonstationary processes, 11A100
TEISSEYRE, R: Theory of the antiplane stress evolution in 2D, 9A1381
- Stress evolution: Creep and dynamic patterns, 9A1380
TEITELBAUM, H: Role of atmospheric waves in the laminated structure of ozone profiles at high latitude, 12T1417
TEIXEIRA DE FREITAS, JA: Hybrid-Trefftz FE formulation for simulation of singular stress fields, 6A26
TEIXEIRA, JCG: Effect of nickel on the mechanical properties of high-oxygen underwater wet welds, 11A834
TEIXEIRA, MAOM: Wall effects for a sphere falling in a non-Newtonian fluid, 10A1149
TEJCHMAN, J: Experimental and numerical study of sand-steel interfaces, 1A703
- Numerical simulation of shear band formation with a hypoplastic constitutive model, 7A5
TEKAWY, JA: Scanning horizon sensor attitude correction for earth oblateness, 11T234
TEKIPPE, RJ: Explicit mathematical models of distribution storage water quality, 2A1277
TEKKAYA, AE: Service-life estimation of extrusion dies by numerical simulation of fatigue-crack-growth, 8A579
TELEGA , JJ: Epi-limit on HB and homogenization of heterogeneous plastic plates, 1T489
TELEGA, JJ: Duality and the complementary energy principle for a class of nonlinear structures - Part II: Anomalous dual variational principles for compressed elastic beams, 3A66
- Duality and the complementary energy principle for a class of nonlinear structures - Part I: Five-parameter shell model, 3A65
- Nonsmooth mechanics and dynamic contact problems, 6A76
- Stiffness loss in laminates with intralaminar cracks - Part I: 2D modeling, 9A544
- Stiffness loss in laminates with intralaminar cracks - Part II: Periodic distribution of cracks and homogenization, 9A545
- Main Polish historical and modern sources on applied mechanics, 10A2
- Alternative approach to the representation of orthotropic tensor functions in the 2D case, 10A4
- Stiffness loss of laminates with aligned intralaminar cracks - Part II: Comparisons, 10A579
- Stiffness loss of laminates with aligned intralaminar cracks - Part I: Macroscopic constitutive relations, 10A578
TELESMAN, J: Fatigue crack growth behavior of PWA 1484 single crystal superalloy at elevated temperatures, 10A730
TELIONIS, DP: Temporal evolution of a pair of streamwise vortices, 2A871
- Formation and internal structure of coherent vortices in the wake of a pitching airfoil, 8A1020
- Flow control over a maneuvering delta wing at high angles of attack, 9A1226
TELLES, JCF: Numerical Green's function approach for BEs applied to fracture mechanics, 2A678
TEMAM, R: Navier-Stokes Equations and Nonlinear Functional Analysis, Second Edition, 3R27
- Asymptotic analysis of Oseen equations for small viscosity, 8A888
- Nonlinear Galerkin method: The two-level Fourier-collocation case, 10A57
TEMCHENKO, ME: Influence of external and internal friction on the stability of vertical rotation of a rigid body, 7A86
TEMIS, YM: Development of a FE based strain accumulation model for the prediction of fatigue lives in highly stressed Ti components, 1A750
TEN BOSCH, BIM: Oseen drag at infinite Reynolds number, 2A886
TEN BRINK, HM: High-flow turbulent cloud chamber, 8A1369
TEN KAT, WRT: Bandwidth of diffusors based upon the quadratic residue sequence, 3A292
TEN NAPEL, WE: Influence of elastic deformation of the roll and the sheet in a hydrodynamically lubricated cold rolling process, 5A1093
TENA-COLUNGA, A: Seismic behavior of structures with flexible diaphragms, 10A1433
TENCHEV, RT: Design procedure for reducing the stress concentration around circular holes in laminated composites, 4A506
- Shear lag in orthotropic beam flanges and plates with stiffeners, 7A636
TENEK, L: Postbuckling of composite laminates under compressive load and temperature, 5A523
- Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells, 8A18
- Steady-state nonlinear heat transfer in stiffened composite plates and shells by an exactly integrated facet triangular element, 8A1239
TENEKETZIS, D: Measurement scheduling for recursive team estimation, 12T328
TENG, B: New higher-order BEMs for wave diffraction-radiation, 5A210
TENG, JG: Elastic buckling of cone-cylinder intersection under localized circumferential compression, 5A531
TENG, JIN GUANG: Buckling of thin shells: Recent advances and trends, 6A498
TENG, JIN-GUANG: Cone-cylinder intersection under internal pressure: Nonsymmetric buckling, 6A499
TENG, SUSANTO: Effect of embedment length of tension reinforcement on the behavior of light-weight concrete deep beams, 7A933
- Performance of strengthened concrete deep beams predamaged in shear, 9A921
TENG, TA-LIANG: Numerical modeling of fault-zone trapped waves: Acoustic case, 6A1285
- Northridge, California earthquake of January 17, 1994, 11A1346
TENG, TSO-LIANG: Optimal design of a dynamic absorber using polymer-laminated steel sheets, 12A818
TENNETI, R: Thermally induced vibration suppression of laminated plates with piezoelectric sensors and actuators, 7A139
TENNYSON, RC: Thermal-vacuum response of polymer matrix composites in space, 1A573
- Influence of content and structure of hydrocarbon polymers on erosion by atomic oxygen, 5A249
TEO , KL: Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, 8T281
TEO, KL: Control of chaos: Higher periodic orbits, 3A95
- Optimal control of singular systems with a cost on changing control, 7T381
TEODORO, EB: Dynamic response of a damped cable with a compliant damped support system, 10A161
TEPHANY, F: Elastic-plastic water hammer analysis in piping systems, 4A272
TER-KRIKOROV, AM: Vortices and internal waves in a stratified fluid, 7A273
TERABAYASHI, T: FEM analysis of torsional strength for twist drill, 1T15
TERACHI, N: Measurement of condensation characteristic curves for binary mixture of steam and ethanol vapor, 9A1259
TERADA, H: Recording and processing of planar curve using clothoids (2nd Report): Recording of cam profile with clothoidal interpolation (Japanese), 4A849
- Study on data processing of a teaching robot with redundant dof (Japanese), 7A462
- Fundamental analysis of Cycloid Ball Reducer (3rd report): Strength design (Japanese), 7A1022
- Calibration of horizontally articulated robot by rotation angle method (Japanese), 12A459
TERADA, K: Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, 7A1277
TERADA, Y: Free vibrations of clamped symmetrically laminated skew plates, 7A159
TERAMACHI, K: Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), 9A1460
TERANO, Y: Effects of classified fly ash on improving performance of roller compacted concrete pavements (Japanese), 6A745
TERAOKU, T: Sloshing analysis method using existing FEM structural analysis code, 5A21
TERASAKI, T: New method for estimating residual stresses in pipe made by surfacing weld, 5A459
TERASHIMA, M: Development of cryosorption pump for neutral beam injector, 11A1051
TERASHIMA, S: Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391
TERATANI, C: Mechatronics supporting automation of manufacturing (Japanese), 1T445
TERDTOON, P: Visual study on flow behavior in an inclined two-phase closed thermosyphon, 1A1286
TEREGULOV, IG: Calculation of mechanical characteristics of composite materials based on the results of the multilayered structure work (Russian), 7A590
TEREKH, AM: Local heat transfer in bundles of transversely finned tubes, 1A1168
TEREKHOV, RG: Applicability of the ratios of the theories of elastoplastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, 9T522
TEREKHOV, VI: Heat transfer in a channel with a counter-current wall jet injection, 1A1180
TERESHCHENKO, VY: Formulation of the variational BEM with improved accuracy, 7A54
TERLAIN, A: Determination of the diffusion coefficients of iron and chromium in Pb-17Li, 1A1310
TERRANOVA, A: Computer Methods and Experimental Measurements for Surface Treatment Effects II, 3N22
TERRO, MJ: Inelastic analysis of sections subjected to axial force and bending moment, 7A532
TERRY, CK: Terrestrial solar-pumped iodine gas laser with minimum threshold concentration requirements, 6A1298
- Feasibility of an iodine gas laser pumped by concentrated terrestrial solar radiation, 11T1427
TERRY, KW: Particle size distribution of airborne dusts using a scanning electron microscope, 2A1208
TERZYK, AP: Indispensability of the use of calorimetric measurements for the description of adsorption processes in microporous systems, 5A1124
TESAR, A: FETM vector processing approach in ultimate dynamics, 7A37
- Shear lag in the behavior of thin-walled box bridges, 9A216
TESFAYE, A: Robust digital tracking with perturbation estimation via the Euler operator, 8A294
TESHIMA, K: Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), 11A569
TESNER, PA: Soot formation during pyrolysis of benzene-xylene mixtures, 7T1322
- Soot formation during pyrolysis and combustion of hydrocarbons, 7T1321
TESSEMA, AA: Note on tip relief and backlash allowances in non-metallic gears, 7A1010
TESSLER, A: [1,2]-order theory for elastodynamic analysis of thick orthotropic shells, 1A626
- Nonlinear elastic deformations of moderately thick laminated shells subjected to large and rapid rigid-body motion, 11A39
TESTER, JW: Transient spherical source method to determine thermal conductivity of liquids and gels, 7A1253
TETEPOULIDIS, PI: Seismic analysis of buried pipeline in a 3D soil continuum, 4A1328
TETER, A: Interactive buckling of thin-walled open elastic beam-columns with intermediate stiffeners, 4A568
- Influence of local post-buckling behavior on bending of thin-walled elastic beams with central intermediate stiffeners, 9A618
TETERS, G: Stochastic multi-objective optimization of a viscoelastic composite plate (Russian), 1A486
TETERUK, RG: Estimating time of viscous failure under creep, 7A792
TETSUSHI, O: Vision-based adaptive and interactive behaviors in mechanical animals using the remote-brained approach, 11T379
TEVES-COSTA, P: Seismic behavior estimation of thin alluvium layers using microtremor recordings, 9A1398
TEWARY, VK: Elastic Green's function for a damaged interface in anistropic materials, 7A859
TEXON, M: Hemodynamic Basis of Atherosclerosis, Second Edition, 10N43
TEYMUR, M: Small but finite amplitude waves in a two-layered incompressible elastic medium, 5A182
TEZAUR, R: Convergence of a substructuring method with Lagrange multipliers, 12A75
TEZCAN, SS: Tangent stiffness properties of FEs, 3A39
TEZDUYAR, TE: Finite element methods in large-scale computational fluid dynamics, 4A20
TEZUKA, A: Two-dimensional mesh generation scheme for adaptive remeshing process in FEM, 10A7
THACH, DQ: Water vapor transmission through hull material and buoyancy of aerostats, 11A1023
THACHER, EF: Solar-electric Vehicle Simulation code, 3A1377
THACKER, JG: Strain-based fatigue analysis of wheelchairs on a double roller fatigue machine, 4A1374
THAI, HOANG MINH: Three-dimensional gravity interpretation of the Earth's crust at Hanoi depression, 6A1244
- Constrained gravity inversion using Tikhonov's regularization method, 6A1241
- Increasing the efficiency of downward analytical continuation of potential fields to solve the indirect gravity problem, 9A1379
THAI, K: Active truss element and control law for vibration suppression, 7A133
THAJCHAYAPONG, P: Analysis of computer-aided facility layout techniques, 12T465
THAKUR, A: Dynamic Bauschinger effect, 12A521

THAKUR, S: Convection treatment and pressure splitting for sequential solution procedures - Part I: Theory and 1D test cases, 6A1101
- Convection treatment and pressure splitting for sequential solution procedures - Part II: Pressure-based algorithm, 6A1102
- Development of pressure-based composite multigrid methods for complex fluid flows, 11A902
THAM, LG: Dynamic cross-interaction between flexible surface footings by combined BEM and FEM, 10A1428
THAM, LM: Shearographic and holographic assessment of defective laminates with bond-lines of different elastisities, 5A656
THAMBIRATNAM, D: Free vibration analysis of beams on elastic foundation, 12A191
THAMBIRATNAM, DP: Free vibration analysis of bridges, 4A205
THANI, EA: Thermodynamic analysis of new combination of supercharged boiler cycle and heat recovery cycle for power generation, 10A1401
THARAKAN, TJ: Experimental study of liquid sheets formed in coaxial swirl injectors, 4A956
- Flow visualization experiments on free draining of a rotating column of liquid using nets and tufts, 12T1086
THARUMARAJAH, A: Comparison of the bionic, fractal and holonic manufacturing system concepts, 10A499
THATCHER, RW: Iterative solution of the incompressible Navier-Stokes equations on the meiko computing surface, 7A1070
THEEUWEN, M: Estimating the contribution of muscles to joint torque based on motor-unit activity, 12A1445
THEIL JR, CC: Continuing challenge: Report on the performance of state bridges in the Northridge Earthquake, 7A1376
THEOCARIS, PS: Generalized hardening plasticity approximated via anisotropic elasticity: A neural network approach, 1A519
- Axisymmetric buckling parameters in flexed plates as determined by caustics, 2A490
- Plasticity including the Bauschinger effect, studied by a neural network approach, 5A434
- Hardening plasticity approximated via anisotropic elasticity: The Fokker-Planck equation in a neural network environment, 6A400
THEODOR, Y: Output-feedback mixed H_∞/H_2 control: A dynamic game approach, 11T296
THEODORACATOS, VE: Optimal packing of arbitrarily-shaped polygons using simulated annealing and polynomial-time cooling schedules, 1A34
THEODORAKAKOS , A: Modeling wall impaction of diesel sprays, 11A1303
THEODORAKOPOULOS, DD: Creep characteristics of glass reinforced cement under flexural loading, 4A490
THEODORE, RJ: Modeling of axially-translating flexible beams, 10A151
THEODOROPOULOS, PT: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082
THEODULIDIS, N: Horizontal-to-vertical spectral ratio and geological conditions: The case of Garner Valley Downhole Array in southern California, 11A1340
THEOTOKOGLOU, EE: Experimental and numerical study of composite T-joints, 8A468
THEPPHITAK, G: Large deflection of simple variable-arc-length beam subjected to a point load, 8A475
THERMANN, K: Post-critical plastic deformation of biaxially stretched sheets, 5A436
THERON, NJ: Energy decaying scheme for nonlinear elastic multibody systems, 8A72
THERSSEN, E: Devolatilization of coal particles in a flat flame: Experimental and modeling study, 1A1334
THESKEN, JC: Theoretical and experimental investigation of dynamic delamination in composites, 3A509
- Tensile impact delamination of a cross-ply interface studied by moire photography, 3A702
THEVENDRAN, V: Buckling of annular plates elastically restrained against rotation along edges, 10A629
- Stability of orthogonally intersecting equal-leg angle cross-bracing systems, 11A540
THEWALT, CR: Behavior of bridge outrigger knee joint systems, 3A1318
THIAGARAJAN, G: Anisotropic yield surface model for directionally reinforced metal-matrix composites, 5A456
- Cyclic anisotropic-plasticity model for metal matrix composites, 8A437
THIEBAUD, F: Damaged elastoplastic behavior of $[+\psi, -\psi]_n$ fiber-reinforced composite laminates in biaxial loading, 2A645
THIENEL, K-CH: Strength of concrete subjected to high temperature and biaxial stress: Experiments and modeling, 5A676
THIERAUF, G: Optimal topologies of structure: Homogenization, pseudo-elastic approximation and the bubble-method, 9A889
THIERCELIN, M: Interaction between the wellbore and pre-existing fractures, 7A847
THIES, AT: Computation of turbulent axisymmetric and nonaxisymmetric jet flows using the K-e model, 7A1109
THILAKASIRI, S: Study of pore pressures induced in laboratory dynamic consolidation, 8A531
THIO, HONG KIE: Moment-tensor inversions for local earthquakes using surface waves recorded at TERRAscope, 2A1231
THIONNET, A: Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A837
- Modeling of damage in composite materials submitted to off axis tests: Application to a ceramic woven fabric SiC-SiC composite, 7A838
THIRUMALAI, M: Configurations of symbolic equations of motion for rigid multibody systems, 2A66
THIRUVARUDCHELVAN, S: Three novel techniques for forming hemispherical cups with flexible tooling, 6A568
- Novel hydraulic-pressure augmented deep-drawing process f 2A66
THIRUVARUDCHELVAN, S: Three novel techniques for forming hemispherical cups with flexible tooling, 6A568
- Novel hydraulic-pressure augmented deep-drawing process for high draw ratios, 6A561
THOEN, J: Investigation of the dispersion relations of surface acoustic waves propagating on a layered cylinder, 7A228
- Determination of the viscous characteristic length in air-filled porous materials by ultrasonic attentuation measurements, 9A368
THOLE, KA: Enhanced heat transfer and shear stress due to high free-stream turbulence, 5A967
- High freestream turbulence effects on turbulent boundary layers, 12A1150
THOLEN, ML: Splice strength of high relative rib area reinforcing bars, 7A958
- Development length criteria for conventional and high relative rib area reinforcing bars, 11A750
THOMA, M: Modeling and control of excavator dynamics during digging operation, 6A545
THOMADAKIS, M: Pressure-correction method for the solution of incompressible viscous flows on unstructured grids, 9A1071
THOMAS JR, JR: Thermal conductivity of uniaxial coated cylindrically orthotropic fiber-reinforced composite with thermal barriers, 2A1122
THOMAS, C: Study of the modal behavior of the human hand-arm system, 9T1454
THOMAS, CO: Conceptual design of soil venting systems, 10T1456
THOMAS, DR: Feedback control of sound radiation from a plate excited by a turbulent boundary layer, 3A285
THOMAS, E: Seismic behavior of older steel structures, 10A1432
THOMAS, HL: Improved transient response approximation for general damped systems, 11A722
THOMAS, HR: Numerical simulation of measured transient heat transfer through a concrete ground floor slab and underlying substrata, 3A1110
THOMAS, J: Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, 5A1254
THOMAS, JF: Chaos in thermal pulse combustion, 5A1263
THOMAS, M: Certification of the composite outer wing of the ATR72, 6A1012
- RE (Ted) Munn - Founding editor: A mini-biography, 12A1422
THOMAS, MU: Characterization of grinding-induced cracks in ceramics, 2A549
THOMAS, PD: Propagation of elastic waves through a layered poroelastic medium, 12A223
THOMAS, PJ: Laboratory simulation of mixing across tidal fronts, 8A983
THOMAS, PM: Development of the twin-roll casting process, 7A756
THOMAS, RA: Development of vibration analysis using contact transducers applied to periodic machine condition monitoring, 7A896
THOMAS, RH: Time-averaged active controller for turbofan engine fan noise reduction, 11A259
THOMAS, RM: Effects of axial temperature gradients in the wall of a detonator delay element, 5A1251
THOMAS, S: Hybrid effect in the mechanical properties of short sisal-glass hybrid fiber reinforced low density polyethylene composites, 7A562
THOMAS, SK: Performance characteristics of a stainless steel-ammonia loop heat pipe, 10A1321
THOMAS, TG: Large eddy simulation of a symmetric trapezoidal channel at a Reynolds number of 430,000, 7T1046
THOMASON, JL: Influence of fiber length and concentration on the properties of glass fiber-reinforced polypropylene - 1: Tensile and flexural modulus, 11A477
- Influence of fiber length and concentration on the properties of glass fiber reinforced polypropylene - 2: Thermal properties, 12A545
THOMEE, V: Discretization with variable time steps of an evolution equation with a positive-type memory term, 12A509
- Asymptotic behavior of semidiscrete FE approximations of Biot's consolidation problem, 12A1350
THOMOPOULOS, KT: Softening behavior of continuous thin-walled steel beams: Two numerical methods, 6A467
THOMPSON, AG: Force control in electrohydraulic active suspensions, 8A328
THOMPSON, BE: Wing performance in moderate rain, 2A1026
- Accuracy evaluation of unsteady CFD numerical schemes by vortex preservation, 4A950
- Flow through a submerged nozzle, 5A945
- Sailplane carry-through structures made with composite materials, 11A795
THOMPSON, BS: Experimental control of a single-link flexible arm incorporating electrorheological fluids, 1T433
- Note on the experimentally determined elastodynamic response of a slider-crank mechanism featuring a macroscopically smart connecting rod with ceramic piezoelectric actuators and strain gauge sensors, 4A209
THOMPSON, C: Acoustic scattering in 3D fluid media, 5A268
THOMPSON, HM: Modeling and analysis of meniscus roll coating, 2A536
- Maintenance of a commercial fusion power station and its implications for safety, 11T1474
THOMPSON, JC: Practical stress expressions for stress concentration regions, 1A457
THOMPSON, JI: Effect of two types of cross-linking on some mechanical properties of collagen, 2A1294
THOMPSON, L: Stability of a potential vorticity front: From quasi-geostrophy to shallow water, 11A982
THOMPSON, LL: Space-time FEM for the exterior structural acoustics problem: Time-dependent radiation boundary conditions in two space dimensions, 10A381
- Space-time FEM for the exterior acoustics problem, 12A311
THOMPSON, RA: Dual-code solution strategy for hypersonic flows, 12T1070
THOMPSON, RB: Propagation of elastic waves in equiaxed stainless-steel polycrystals with aligned [001] axes, 9A262
- Elastic wave scattering by shelled spherical scatterers in a focused field, 10A263
THOMPSON, RG: Data envelopment analysis of space and terrestrially-based large scale commercial power systems for Earth: A prototype analysis of their relative economic advantages, 8A1382
THOMPSON, S: Computer-aided displacement analysis of spatial mechanisms using the C^H programming language, 5A94
THOMSEN, C: Numerical model for quantitative verification of magnetic resonance imaging of time-dependent temperature distributions in a phantom, 8T1156
THOMSEN, JJ: Chaotic dynamics of the partially follower-loaded elastic double pendulum, 6A100
THOMSEN, NB: Surface uplift and wear implications of zirconia toughened ceramics, 6A832
- Subsurface and surface cracks under contact loading in transformation-toughened ceramics, 7A586
THOMSEN, OT: Ply drop-off effects in CFRP-honeycomb sandwich panels: Experimental results, 11A523
- Ply drop-off effects in CFRP-honeycomb sandwich panels: Theory, 11A522
THOMSON JR, TA: Bond and force transfer of composite material plates bonded to concrete, 9A591
THOMSON, AWP: Nonlinear predictions of Ap by activity class and numerical value, 8A1349
THOMSON, JR: Statistical saturation of buoyant flow induced by a fluctuating acceleration, 10A1259
THOMSON, M: Robustness of a minimal observer synthesis algorithm, 11A265
- Output-driven minimal controller synthesis with an adaptive observer, 12T377
THOMSON, PF: Approach to preform design, 1A711
- Evaluation of a large time increment method, 4A472
- Thermal analysis of the hot torsion test taking into account radiation, 7A34
THOMSON, R: Crack path in an amorphous material in the quasi static limit, 6A676
THOREN, FAV: Wheelchair stability: Effect of body position, 6A1377
THORNE, AM: Experimental results and FE modeling of an embedded polarimetric sensor, 2A425
THORNE, CR: Numerical simulation of widening and bed deformation of straight sand-bed rivers - I: Model development, 9T1054
THORNE, JD: Approximate initial Lagrange costates for continuous-thrust spacecraft, 8T307
THORNE, PD: Constraining acoustic backscatter estimates of suspended sediment concentration profiles using the bed echo, 3A256
THORNTON, C: Elastohydrodynamic collisions of solid spheres, 9A1118
THORNTON, EA: Aerospace Thermal Structures and Materials for a New Era, 3N21
- Thermal response of radiantly heated spinning spacecraft booms, 6A1140
THORNTON, EB: Wave energy transformation on natural profiles, 12A249
THORNTON-TRUMP, AB: Extended integral method to derive Lyapunov functions for nonlinear systems, 2T248
THORPE, R: Momentum and heat transfer by forced convection in fixed beds of granular active carbon, 8A1195
THORPE, TE: Numerical analysis of stresses at oblique holes in plates subjected to tension and bending, 3A443
THOULESS, MD: Buckling instability of straight edge cracks, 5A658
- Damage nucleation during electromigration along an isolated interface in an elastic medium, 8A609
THOUMSIN, F: Calculation of the characteristics of a bearing under steady and transient conditions (French), 6A1044
THOUVEREZ, F: Identification of NARMAX models on a modal base, 7A373
THRIFT, P: Generating image filters for target recognition by Hebbian neural network learning, 1T73
THROCKMORTON, AJ: Stability analysis on earth observing system AM-1 spacecraft earth acquisition, 11T235
THUBRIKAR, MJ: Pressure-induced mechanical stress in the carotid artery bifurcation: A possible correlation to atherosclerosis, 2A1298
THURBER, MC: Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049
THURLEY, R: Methods for examining anisotropies in early combustion - Part I: Multi-scale experimental determinations, 5A1254
THURLOW, MS: Convective instability in rotating liquid ^{3}He-^{4}He mixtures, 11A981
THURSTON, GB: Impedance of a fibrin clot in a cylindrical tube: Relation to clot permeability and viscoelasticity, 2A1295
THWAITES, S: Local phase velocity measurements in plates, 4A233
- Non-destructive testing of honeycomb sandwich structures using elastic waves, 4A234
- Propagant phase in reverberant environments, 6A260
TIA, S: Heat transfer characteristics in a small-scale fluidized bed boiler, 12A1344
TIAN, CHANGTAI: Measurements of specific heat of meta-nitrobenzoic acid-diethanolamine crystals: By differential scanning calorimetry, 1A1157
TIAN, H: Phase superposition processing for ultrasonic imaging, 12A796
TIAN, HJ: Splittings for rectangular systems, 6A68
TIAN, J: Vibrations of cylindrical shells with intermediate supports, 4A179
- Leak detection: Transient flow simulation approaches, 5A1345
TIAN, JIFENG: Failure analysis of a gas turbine from a generating set, 9A768
TIAN, YONG: Analytical approach for the determination of the dynamic coefficients of hybrid bearings, 3A1000
TIAN, ZE: Novel method for the measurement of J resistance curves, 4A764
TIAN, ZS: Stress analyses of solids with rectangular holes by 3D special hybrid stress elements, 8A47
TICHELAAR, BW: Sonic logging of compressional-wave velocities in a very slow formation, 3A1294
TICHY, JA: Non-Newtonian lubrication with the convected Maxwell model, 10A1226
TICKELL, RG: Review of the probabilistic description of Morison wave loading and response of fixed offshore structures, 1A261
TIELKING, JT: Wide base radial truck tires: Properties and performance, 7A980
TIEMERSMA, JJ: Integration of quality control and shop floor control, 8T369
TIEN, C-L: Temperature measurement during high-intensity laser-liquid interactions, 8A1122
TIEN, CHANG-LIN: Annual Review of Heat Transfer, Volume VI, 9N26
TIEN, CL: Pulsed laser heating of highly absorbing particles, 3T1140
TIERNAN, DM: Interfacial stress singularities in a bimaterial wedge, 8A385
TIERSTEN, HF: Accurate description of piezoelectric resonators subject to biasing deformations, 4A592
- Influence of material objectivity on electroelastic dissipation in polarized ferroelectric ceramics, 9A646
TIEU, AK: Measurements in the microscopic flow with a solid-state LDA, 2A1069
- Misalignment effect on the static and dynamic characteristics of hydrodynamic journal bearings, 5A1095
- High performance journal bearing with controlled elastic deflection, 5A1099
TIGHE, BJ: Determination of lubricating film thickness for permeable hydrogel and non-permeable polyurethane layers bonded to a rigid substrate with particular reference to cushion form hip joint replacements, 12A1488
TIGOIU, V: Existence criterion for secondary flows in elliptic pipes for viscoelastic third grade fluids, 11A962
TIHON, J: Dynamics of electrodiffusion probes in developing annular flows, 6T1004

TIJSSELING, AS: Fluid-structure interaction in liquid-filled pipe systems: A review, 9A319
TIKA, TE: Fast shearing of pre-existing shear zones in soil, 12A651
TIKAL, B: Rayleigh wave dispersion due to spatial (FEM) discretization of a thin elastic solid having non-curved boundary, 5A179
TIKHONOV , VS: Calculation of longitudinal oscillations of a thread of variable length with the load at its end under the load "jump" (Russian), 3A127
TIKHONOV, AV: R113 boiling heat transfer modeling on porous metallic matrix surfaces, 8A1152
TILAVOV, A: Vibration regimes of complex motion of the material point of variable weight (Russian), 7A125
TILIOUINE, K: Surface roughness monitoring using computer vision, 12A789
TILL, WA: Solar-array-induced disturbance of the hubble space telescope pointing system, 1A273
TILLEY, DG: Predicting the behavior of slipper pads in swashplate-type axial piston pumps, 9A1237
TILLEY, DL: Microinstabilities in a 10-kilowatt self-ficld magnetoplasmadynamic thruster, 8A1294
TILLMAN, ST: Investigation of lean combustion in a natural gas-fueled spark-ignited engine, 12A1328
TILLMAN, TG: Thrust characteristics of a supersonic mixer ejector, 2A1190
- Scaling of the bursting frequency for turbulent boundary layers approaching separation, 10T1132
TILMANS, HAC: Equivalent circuit representation of electromechanical transducers - I: Lumped-parameter systems, 10A456
- CMOS foundry-based micromachining, 10T452
TIMARCI, T: Comparative dynamic studies for symmetric cross-ply circular cylindrical shells on the basis of a unified shear deformable shell theory, 4A174
TIMCENKO, O: Experiments with nontraditional hybrid control technique of biped locomotion robots (Russian), 3A402
- Biological aspects of controlling complex robotic systems (Russian), 3A399
TIMCO, GW: Review of sea ice density, 8A1403
TIMKIN, LS: Gas-liquid bubbly flow in vertical pipes, 12A1087
TIMMERMANS, LJP: Approximate projection scheme for incompressible flow using spectral elements, 9A1086
TIMNAT, YM: Model for low-temperature ignition of magnesium particles, 2A1176
TIMOFEEV, AN: Manipulators with adaptive kinematics, 3T403
TIMOFEYEVA, TA: Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094
TIMOSHENKO, SP: Mechanics of Materials, Fourth Edition, 10N23
TIMOSHIN, SN: Short-wavelength instabilities in 3D classical boundary layers, 1A1070
- Concerning marginal singularities in the boundary-layer flow on a downstream-moving surface, 8A939
TIN-LOI, F: Nonlinear analysis of semirigid frames: A parametric complementarity approach, 6A772
- Simplified geometrically nonlinear elastoplastic analysis of semirigid frames, 7A970
- Large displacement elastoplastic analysis of semirigid steel frames, 8A767
TINAWI, R: Finite element analysis of concrete swelling due to alkali-aggregate reactions in dams, 12A851
TINDLE, CT: Simple coupled wedge mode propagation method, 1A315
- Improve equivalent fluid approximations for a low shear speed ocean bottom, 5A264
TINEL, A: Scholte wave diffraction by a dihedral: Study at oblique incidence, 5A274
TING, CHAO-LUNG: Boundary conditions in the vicinity of the contact line at a vertically oscillating upright plate: An experimental investigation, 1A995
TING, CJ: Drill wear monitoring using neural networks, 7A1001
TING, DS-K: Note on thermocouple measurements for laminar-turbulent transition phenomena in pipe flow, 6A1105
TING, KWUN-LON: Classification and branch identification of Stephenson six-bar chains, 7A1013
- Performance quality and tolerance sensitivity of mechanisms, 8A358
TING, L: Theoretical and experimental studies of slender vortex filaments, 2A872
- Panel oscillations and acoustic waves, 2A191
TING, TCT: Anisotropic Elasticity: Theory and Applications - Oxford Engineering Science Series, Vol 45, 10R16
- Green's functions for an anisotropic elliptic inclusion under generalized plane strain deformations, 7A506
TING, YUNG: Torque redistribution and time regulation methods for actuator saturation avoidance of fault-tolerant parallel robots, 4A396
TINKER, ML: Solar-array-induced disturbance of the hubble space telescope pointing system, 1A273
TINNSTEN, M: Optimization of a racing ski, 2A730
TINONE, H: Parameter identification of robot arm with repetitive control, 8A268
TIPPUR, HV: Fracture parameters for interfacial cracks: An experimental-FE study of crack tip fields and crack initation toughness, 2A651
TIRABOSCHI, C: Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, 3A520
TIREY, DA: Detailed kinetic model of the high-temperature pyrolysis of tetrachloroethene, 8A1264
- High-temperature pyrolysis of hexachloropropene: Kinetic analysis of pathways to formation of perchloro-acylbenzones, 11A1285
- High-temperature pyrolysis of 1,3-hexachlorobutadiene, 12A1316
TIRINDA, P: Diagnostic system for measurement and analysis of vibration of a SKODA type turbogenerator (Polish), 11A149
TIRIS, C: Experiments on a new small-scale solar dryer, 5A1351
TIRIS, M: Experiments on a new small-scale solar dryer, 5A1351
TIROSH, J: Analysis of high-speed rolling with inertia and rate effects, 9A696
- Tube expansion by internal fluid pressure with additional compressive stress, 12A676
TIRSKIY, GA: Numerical investigation of thermal and chemical nonequilibrium flows past slender blunted cones, 6A929
TIRTAATMADJA, V: Comparison of constitutive equations for polymer solutions in uniaxial extension, 4A884
TISCHLER, CR: Kinematic chains for robot hands - I: Orderly number-synthesis, 2A301
- Kinematic chains for robot hands - II: Kinematic constraints, classification, connectivity, and actuation, 2A302
TISHKIN, AP: Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699
TISON, T: Extension of classical modal reanalysis algorithms: The improvement of initial models, 3A112
- Direct inversion of the impedance matrix in response reanalysis, 9A243
TITARENKO, SV: Experimental study of the influence of riblets on transition, 11A946
TITS, AL: Multiobjective optimization of a leg mechanism with various spring configurations for force reduction, 12A974
TITTERTON JR, PJ: Network analysis of scattering from an internally loaded spherical shell: Resonance identification and frequency-by-frequency limits on the scattered field, 1A326
TITUS, NA: Optimal station-change maneuver for geostationary satellites using constant low thrust, 3T354
TIU, C: Steady and dynamic shear properties of non-aqueous drag-reducing polymer solutions, 5A861
TIVANOV, G: Stability of hypersonic reacting stagnation flow of a detonatable gas mixture by dynamical systems analysis, 5A1224
TIWARI, GN: Instantaneous thermal efficiency of an active solar still, 5A1348
- Effect of glass cover inclination and parametric studies of concentrator-assisted solar distillation system, 12A1429
TIWARI, MS: Weak discontinuities in a chemically reacting atmosphere, 3A917
- Anisotropic wave propagation in radiating gases, 11A207
TIWARI, R: Estimation of nonlinear stiffness parameters of rolling element bearings from random response of rotor-bearing systems, 4A335
TIWARI, SN: Grid sensitivity and aerodynamic optimization of generic airfoils, 5A1018
- Simulation of shock-induced combustion past blunt projectiles using shock-fitting technique, 11A1289
TIZIANI, HJ: Digital double-pulse holographic interferometry for vibration analysis, 7A875
TIZZI, S: Application of a numerical procedure for the dynamic analysis of plane aeronautical structures, 12A1174
TJAVARAS, AA: Nonlinear response of two disordered pendula, 7A111
- Shock waves in curved synthetic cables, 10A166
TJOKROAMINATA, WD: Design study of radial inflow turbines with splitter blades in 3D flow, 11A1058
TJOTTA, JN: Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, 3A249
TJOTTA, S: Investigation of a high intensity sound beam from a plane transducer: Experimental and theoretical results, 3A249
TKACHENKO, VF: Stressed state of transversally isotropic medium with a parabolic crack, linearly changing pressure being applied to its surface, 7A816
- Stressed state of transversally isotropic medium with parabolic crack under linearly changing shift load (Russian), 7A817
TKHAI, VN: Nonlinear oscillations of reversible systems, 1A279
- Symmetric periodic orbits of the many-body problem: Resonance and parade of planets, 4A297
TO, CWS: Vibration analysis of structures by hybrid strain-based three-node flat triangular shell elements, 1A169
- Weak and strong interactions in vortex-induced resonant vibrations of cylindrical structures, 8A220
- Largest Lyapunov exponents and bifurcations of stochastic nonlinear systems, 12A113
TO, DANG VAN: Initial motion of sediment under waves and wave-current combined motions, 2A859
TO, WM: Role of the generalized inverse in structural dynamics, 2A89
TOBAK, M: Experimental study of saddle point of attachment in laminar juncture flow, 4A961
TOBISKA, L: Analysis of a streamline diffusion FEM for the Stokes and Navier-Stokes equations, 7A1066
- Note on the artifical viscosity of numerical schemes, 9T129
- Optimal order error estimate for an upwind discretization of the Navier-Stokes equations, 12A1062
TOBITA, M: Adhesion between Ni/Fe lead frame and epoxy molding compounds in IC packages, 8A850
TOBOLSKI, JF: Simultaneous in-process inspection of surface form and roughness of machined sculptured surfaces, 5A572
TOBUSHI, H: Recovery stress of TiNi shape memory alloy under constant strain, 1A1293
TODA, K: Lamb wave vibration sensor with a cellulose membrane diaphragm, 11A139
TODA, S: Vibration control of plates by plate-type dynamic vibration absorbers, 5A701
TODD, DM: System evaluation and LBTU fuel combustion studies for IGCC power generation, 5A1288
TODD, MD: Nonstationary transition through resonance, 10A111
TODOROKI, A: Fractal property of matrix cracking in GFRP cross-ply laminates, 3A707
- Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, 3A751
- Application of electric potential method to smart composite structures for detecting delamination, 3A736
- Object-oriented approach to optimize composite laminated plate stiffness with discrete ply angles, 12A559
TODOROV, TI: Study of the longitudinal slip and slide slip of a wheeled tractor under variable vertical load, 7A409
TODREAS, NE: Buoyancy and property variation effects in turbulent mixed convection of water in vertical tubes, 11A1130
TOFT SORENSEN, O: Comparative wear mapping techniques - II: Surface roughness and fractal dimension mapping of tungsten carbide-silicon carbide, 12A927
TOGAMI, TC: Split Hopkinson bar technique to evaluate the performance of accelerometers, 12A128
TOGASHI, J: Inverse analysis of galvanic corrosion using fuzzy a priori information, 3A18
TOGNACCINI, R: Normal mode stability analysis of multiblock algorithms for the solution of fluid-dynamics equations, 8A910
- Rotating dissipation for accurate shock capture, 11T205
- Efficient computations using upwind biased schemes, 12A41
TOGNARELLI, MA: Surge response statistics of tension leg platforms under wind and wave loads: A statistical quadratization approach, 6A219
TOGNO, A: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
TOGNOTTI, L: Ignition and combustion of single, levitated char particles, 3A1205
TOGO, S: Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), 7A1012
TOH, SL: Transient stresses generated by low velocity impact on orthotropic laminated cylindrical shells, 1A572
TOHDOH, M: Mode I fracture modeling of elastomer-toughened polymers, 12A769
TOHGO, K: Influence of debonding damage on a crack tip field in particulate-reinforced ductile-matrix composite, 10A796
- Mode I interlaminar fracture toughness and fracture mechanism of angle-ply carbon-nylon laminates, 11A685
TOHJYO, F: Light attenuation in a semitransparent foam sheet: Thickness measurement for industrial use, 7A879
TOHMAZ, AS: Application of artificial neural networks to skidder traction performance, 8A772
TOHYAMA, A: Evaluation of friction torque of rolling bearing (Japanese), 9A1001
TOI, K: Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
- Development of cryosorption pump for neutral beam injector, 11A1051
TOI, Y: Finite element analysis of quasi-static and dynamic collapse behaviors of framed structures by the adaptively shifted integration technique, 5A730
TOKAJI, K: Distribution of tensile strength and its simulation in long-carbon-fiber reinforced plastic (Japanese), 4A485
- Microstructure dependence of fatigue strength and fatigue crack propagation in titanium aluminide, 9A760
TOKAREV, VV: Multiburner combustors: A prospective trend of the development of aircraft engines, 5T1238
TOKARZEWSKI, S: Wigner potential method in the investigation of thermal properties of regular composites, 10A1342
- Two-point quasifractional approximants for effective conductivity of a simple cubic lattice of spheres, 11A1197
TOKHI, MO: Control of flexible manipulator systems, 12A452
TOKI, K: Open-closed loop control of seismic response of structures with active mass driver system (Japanese), 5A1324
- Considerations by wavelet analysis for earthquake waves (Japanese), 5A1330
TOKSOZ, MN: Pressure in a fluid-filled borehole caused by a seismic source in stratified media, 6A1253
- Source characterization and fault plane determinations for M_{Lg} = 1.2 to 4.4 earthquakes in the Charlevoix Seismic Zone, Quebec, Canada, 6A1234
- Fast implementation of boundary integral equation methods to calculate the propagation of seismic waves in laterally varying layered media, 6A1247
- Experimental study of enchanced backscattering from a highly irregular, acoustic-elastic interface, 7A368
TOKUDA, N: Sloshing analysis method using existing FEM structural analysis code, 5A21
TOKUNAGA, S: Dynamic behavior of thick plates due to oblique impact: Numerical analysis of 3D stress waves in an elastic-viscoplastic body, 7A253
TOKUNAGA, T: Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), 7A878
TOKURA, H: Development of an endless multi-wire diamond saw (Japanese), 1T441
Application of lead-zirconate-titanate (PZT) films to the impact energy sensor (Japanese), 3A407
TOLHOEK, P: Study of the failure behavior of key-lock joints in glass fiber reinforced plastic pipework, 11A687
TOLKSDORF, ED: Energy approach to the fatigue of 60/40 solder - Part I: Influence of temperature and cycle frequency, 3A1178
- Energy approach to the fatigue of 60-40 solder - Part II: Influence of hold time and asymmetric loading, 12T714
TOLMAN, HL: Subgrid modeling of moveable-bed bottom friction in wind wave models, 5A204
TOLOKONNIKOV, LA: Constitutive equations for isotropic multimodulus media: Quasilinear relations, 3A3
TOLOMEO, JA: Dynamic analysis of shells, 1A155
TOLONEN, H: Effect of mineral fillers on properties of composite matrix materials, 2A436
TOLPADI, A: Effect of dilution air on the scalar flowfield at combustor sector exit, 4A1256
TOLPADI, AK: Numerical computation and validation of two-phase flow downstream of a gas turbine combustor dome swirl cup, 5A1286
- Calculation of two-phase flow in gas turbine combustors, 5A1268
TOLSON, RH: Reducing flexible base vibrations through local redundancy resolution, 2A344
TOLSTYKH, AI: Hypersonic nozzle gas flow investigations at high Reynolds numbers on the basis of simplified Navier Stokes equations, 10T1094
TOMA, A: Cauchy's problem for the generalized equation of the longitudinal vibrations of elastic rods, 3T115
- Numerical study of premixed flames parametric acoustic instability, 7A1335
TOMA, S: Analysis and Software of Cylindrical Members, 5R14
- Advanced Analysis of Steel Frames: Theory, Software, and Applications, 3R15
TOMARAS, TN: Static properties and motion of vortices in charged fluids, 6A1007
TOMAROV, GV: Experimental investigation on the effect of vibration on flow of liquid film in a horizontal duct, 4A952
TOMASINI, EP: Advances and applicstions of laser velocimetry, 2A1065
- Advances and applications of laser velocimetry, 3A1007
- Laser techniques for vibration measurement, 12A787
TOMASINI, M: Instability of a rotating shear layer in the transonic regime, 7A1077
TOMASULA, DP: Nonlinear control strategies for limiting dynamic response extremes, 8A730
TOMCZAK, M: Damage gear detection by magnitude and phase demodulation (French), 11A657
TOMCZYNSKI, S: Dependence of ZnAl4-Pb composite properties on stereological parameters of lead particles, 9A563
TOME, MF: Numerical technique for solving unsteady non-Newtonian free surface flows, 8A902

TOMILIN, N: Two-stage model of fracture of rocks, 10A695
TOMILO, EA: Study of the contact interaction and wear in cylindrical rolling pairs, 10A973
TOMIMATSU, M: Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336
TOMINAGA, A: Numerical study of turbulent structure over slip roughness in open channel flow using a low Reynolds number turbulence model, 3A881
TOMIOKA, T: Analysis of free vibration of rotating disk-blade coupled systems by using artificial springs and orthogonal polynomials, 9A229
TOMITA, E: Turbulent premixed flames in closed combustion chambers, 7A1310
TOMITA, T: Corrosion behavior of thermal sprayed carbide cermet coatings (Japanese), 6A618
TOMITA, Y: Prediction of deformation behavior of glassy polymers based on molecular chain network model by lapping stone: By new lapping stone instead of free abrasive lapping process (Japanese), 4A661
- Study on a surface-motor driven precise positioning system, 5A333
- Dynamics of laser-induced bubble in pressurized liquid nitrogen, 11T935
- Study of the ultra precision grinding process on a magnetic disk substrate: Development of new bonding materials for fixed abrasives of grinding stone, 12A695
TOMIYAMA, A: Application of a two phase flow model based on local relative velocity to gas-liquid-solid three-phase flows, 4A1017
TOMIYAMA, T: Design methodology for self-maintenance machines, 5A843
TOMIZUKA, M: Adaptive control of robot manipulators in constrained motion: Controller design, 5A370
- Robust digital tracking with perturbation estimation via the Euler operator, 8A294
- Fuzzy logic traction controllers and their effect on longitudinal vehicle platoon systems, 9A424
- High-speed end milling using a feedforward control architecture, 11A593
TOMKINS, B: Fracture in austenitic components, 4A1350
TOMLINSON, BN: Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, 7A1052
TOMLINSON, G: Characterization of automotive shock absorbers using random excitation, 4A222
TOMLINSON, GR: Characterization of the dynamic properties of viscoelastic elements by the direct stiffness and master curve methodologies - Part I: Design of load frame and fixtures, 3A171
- Pseudo-fault induction in engineering structure: Multi-input multi-output control, 4A124
- Simple criterion for establishing an upper limit to the harmonic excitation level of the Duffing oscillator using the Volterra series, 8A92
- Parametric identification of systems with dry friction and nonlinear stiffness using a time series model, 10A400
TOMLINSON, K: Choice of a derivative BE formulation using Hermite interpolation, 7A53
TOMPKINS, SS: Prediction of thermal cycling-induced matrix cracking, 8A657
TOMPSON, AFB: Experimental analysis of pore-scale flow and transport in porous media, 8A1325
TOMSKI, L: Longitudinal vibration of rods coupled by translational springs, 2T93
- Free vibration of an axially-loaded prestressed planar frame, 7A181
TONDL, A: Flow induced system with dry friction, 9A154
- Interaction of torsional and lateral vibrations in a rotor system, 11A127
TONELLO, NA: Mechanisms of detonation transmission in layered H_2-O_2 mixtures, 5T214
TONG , JIN: Abrasive wear behavior of bamboo, 4T830
TONG , MINGBO: Probability damage tolerance evaluation method for multi-cracked structure, 7A801
TONG, J: Model for sliding mode crack closure - Part I: Theory for pure mode II loading, 2A569
- Model for sliding mode crack closure - Part II: Mixed mode I and II loading and application, 2A570
TONG, JIN: Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, 11A806
TONG, L: Effect of axial load on free vibration of orthotropic truncated conical shells, 10A182
- Analysis of adhesive bonded composite lap joints with transverse stitching, 12A556
TONG, MINGAN: Stochastic neural network and its application to multi-maneuvering target tracking, 6A297
TONG, PIN: Fracture mechanics for a mode III crack in a piezoelectric material, 4A700
- Assumed stress C^0 quadrilateral-triangular plate elements by interrelated edge displacements, 9A606
TONG, W: Inertial effects on void growth in porous viscoplastic materials, 5A450
- Critical heat flux and pressure drop of subcooled flow boiling in small-diameter tubes with twisted-tape inserts, 8A1133
TONG, WEN: Active acoustic noise cancellation with audio signal enhancement based on an almost-symmetrical time-varying autoregressive-moving average model, 12A291
TONG, X: Vibration analysis of Timoshenko beams with non-homogeneity and varying cross-section, 4A160
- Infiltration and solidification-remelting of a pure metal in a 2D porous preform, 8A1112
- Melnikov's method for rigid bodies subject to small perturbation torques, 9A137
TONG, XIAOLI: Effective modulus methods in 2D creep damage problems and FE analysis (Chinese), 11T19
TONG, Z-X: Dislocation structures near the fatigue crack tip in copper, 1A751
TONG, ZHONG-FANG: Influence of gear errors on acceleration noise from spur gears, 10A365
TONGCO, E: Optimal sensor placement of large flexible space structures, 12T411
TONGUE, BH: Principles of Vibration, 11R13
- Acoustic control using a self-sensing actuator, 4A321
- Active control of a circular membrane to reduce transient noise transmission, 5A276
- Application of interpolated cell mapping to an analysis of the Lorenz equations, 6A98
- New control approach for platoon operations during vehicle exit-entry, 9A428
TONI, A: Mechanical validation of whole bone composite femur models, 8A1410
- Discussion on the design of a hip joint simulator, 10A1464
TONKONOG, VG: Concept of boiling-up shock, 6A201
TONOZAKI, S: Creep analysis of continuous grillage composite girders (Japanese), 6A438
TOO, JJM: Recent Advances in Heat Transfer and Microstructure Modeling for Metal Processing, MD-Vol 67-MED-Vol 4 - Proc from Int Mech Eng Congress and Expo, 1995, San Francisco, 7N19
TOOMIRE, B: Overview of Schrodinger-Poisson problems, 10A5
TOORMAN, EA: Sedimentation and self-weight consolidation: General unifying theory, 9T666
TOOSE, EM: Generalized Rouse model for a dilute solution of clustered polymers, 1A968
- Boundary integral method for 2D (non)-Newtonian drops in slow viscous flow, 4A1006
TOOTH, AS: Radial loading of cylindrical vessels: Influence of large displacements, 8A493
- Radial loading of cylindrical vessels: Influence of attachment rigidity, 8A781
- Cylindrical shell subject to local loads applied on an arbitrarily shaped area, 8A491
TOPHAM, DR: Study of the morphology of a discontinuous section of a first year arctic pressure ridge, 8A1404
TOPIN, F: Experimental study of convective boiling in a porous medium: Temperature field analysis, 8T1151
TOPLOSKY, J: EHD analysis, including structural inertia effects and a mass-conserving cavitation model, 5A1097
TOPOLE, KG: Nondestructive damage evaluation of a structure from limited modal parameters, 4A783
TOPPER, TH: Practical stress expressions for stress concentration regions, 1A457
- Fatigue of cast aluminum alloys under constant and variable-amplitude loading, 9A758
TOPPING, BHV: Parallel FE analysis using Jacobi-conditioned conjugate gradient algorithm, 12A24
- Subdomain generation for non-convex parallel FE domains, 12A32
TORCZON, VJ: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
TORDELLA, D: Nonsteady stability of the flow around the circle in the Foppl model, 4A931
TORERO, JL: Forward smolder of polyurethane foam in a forced air flow, 12A1301
TORGUET, R: Parameter of nonlinearity B/A in saccharide solutions (French), 11A240
TORHAUG, R: Extreme jack-up response: Simulation and nonlinear analysis methods, 11A144
TORIBIO, J: Tensile failure of stainless-steel notched bars under hydrogen charging, 10A747
TORII, K: Thermal contact resistance of wavy surfaces, 2A1128
- Thermal contact resistance of wavy surfaces, 3A1113
- Droplet deposition and heat transfer simulations of turbulent air-water dispersed flow in a vertical tube, 4T1008
TORII, S: Flow characteristics of gas-liquid-particle mixing in a gas-stirred ladle system with through-flow, 3A925
- New near-wall two-equation model for turbulent heat transport, 8A985
TORII, T: Study of fatigue crack propagation behavior of film materials: Fatigue testing method and factors controlling fatigue crack propagation rates, 7A788
- Experimental study on sound insulation of membranes with small weights for application to membrane structures, 12A293
TORMAKHOV, NN: Applicability of the ratios of the theories of elastoplastic flow to the description of processes of a solid loading along 3D trajectories with orthogonal sections, 9T522
TORNAMBE, A: Lyapunov analysis of the approximate motion equations of flexible structures, 12A98
TORO, EF: Experimental and numerical assessment of the shallow water model for 2D dam-break type problems, 7T1045
TORO-ESCOBAR, CM: Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation (French), 8T401
TORONGEY, PK: Ultrasonic studies of thermodynamic fluctuations in (2,2,2-trifluoroethan-1-ol + benzene), (benzene + dimethylsulfoxide) and (2,2,2-trifluoroethan-1-ol + dimethylsulfoxide) at 298.15K, 2A185
TOROP, VM: Ductile fracture of a pipe with a part-through slot, 1A791
- Phenomenological modeling of a brittle-to-ductile transition for bodies with cracks, 2A635
TOROPOV, VV: Multilevel optimization of the dynamic behavior of a linear mechanical system with multipoint approximation, 10A214
- Optimization of geometrically nonlinear structures based on a multi-point approximation method and adaptivity, 11A729
TORQUATO, S: Geometrical-parameter bounds on the effective moduli of composites, 2A408
- Bounds on the effective moduli of cracked materials, 7A807
- Phase-interchange relations for the elastic moduli of two-phase composites, 12A567
TORRANCE, AA: Additive's influence on the pitting and wear of ball bearing steel, 10A979
TORRANCE, JE: Boundary element analysis of orthotropic delamination specimens with interface cracks, 12A773
TORREGROSA, AJ: Acoustic boundary condition for unsteady 1D flow calculations, 5A282
TORRES, R: Finite element resolution of convection-diffusion equations with interior and boundary layers, 9A40
TORRINGTON, G: Crack detection and measurement using laser pulse heating and thermal microscopy, 4T782
TORRONEN, K: Descriptive characteristics of different types of test for irradiation embrittlement, 3A1361
TORRY, M: Functional knee brace alters joint torque and power patterns during walking and running, 8A1448
TORSTENSSON, H: Response spectrum methods in tank-vehicle design, 5A153
TORTORELLI, DA: Inverse heat conduction problem solutions via second-order design sensitivities and Newton's method, 9A1268
- Hyperelasticity with internal constraints, 11A407
TORY, EM: Sedimentation of Small Particles in a Viscous Fluid - Advances in Fluid Mechanics Series, 8N28
TOSAKA, N: Integral equation analysis of coupled seepage and convective dispersion, 8A1306
TOSCANO, RG: Performance of the QMITC element in 2D elastoplastic analyses, 5A461
TOSHA, K: Affected layer produced by grit blasting for austenitic stainless steel, 1T720
TOSIEK, J: Weyl-Wigner-Moyal formalism - I: Operator ordering, 6A72
TOSUNOGLU, S: Torque redistribution and time regulation methods for actuator saturation avoidance of fault-tolerant parallel robots, 4A396
TOTARO, R: Two-dimensional on-line particle imaging velocimetry, 1A1152
TOTH, J: Disturbed state constitutive modeling based on stress-stain and nondestructive behavior, 8A5
TOTH, LS: Role of texture development in the forming limits of sheet metals, 12A675
- Elastic-plastic effects during cyclic loading as predicted by the Taylor-Lin model of polycrystal elasto-viscoplasticity, 12A522
TOTH, LT: Forming limit predictions with the perturbation method using stress potential functions of polycrystal viscoplasticity, 12A670
TOUATI , D: Influence of large deflections on the dynamic stability of nonlinear viscoelastic plates, 5A537
TOUBAL, M: Parameter of nonlinearity B/A in saccharide solutions (French), 11A240
TOUGE, M: Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550
- In-process measurement of wear of abrasive grain - 2nd Report: Binary image-acquisition system for wear flat of cutting edge (Japanese), 7A1004
TOUHEI, T: Analysis of layered solid-fluid media using a discrete wavenumber and normal-mode superposition method, 6A184
- Analysis of gravity perturbated waves in a deep oceanic structure using a thin-layered element and discrete wavenumber method, 11A221
- Wave propagation analysis for layered solid-fluid media in a gravity field using a thin-layered element and discrete wave number method (Japanese), 11A231
TOUIRI, H: Effect of the separation ratio on the transition between traveling waves and steady convection in the two-component Rayleigh-Benard problem, 10A1073
TOUMI, I: Approximate linearized Riemann solver for a two-fluid model, 9T1133
TOURABI, A: Towards modeling of deformable ferromagnets and ferroelectrics, 3A565
TOURATIER, M: So-called variational consistency of plate models - I: Indefinite plates, Evaluation of dispersive behavior, 6A481
- Supersonic flutter analysis of thermally stressed laminated composite flat panels, 9A323
- Optimal design for minimum weight in a cracked pressure vessel of a turboshaft, 11A727
TOURNERY, F: Analysis of stress concentration factors for stepped plates based on a crack tip stress intensity approach, 11A421
TOURNIER, J-M: Transient analysis of the start-up of a water heat pipe from a frozen state, 3A1156
TOURNOUR, M: Open grid bridge noise from grid and tire vibrations, 8A244
TOUSSAINT, HM: Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model, 8A1412
TOUYAMA, T: Ultra-precision grinding of grazing incidence X-ray mirrors by on-machine measurements (Japanese), 3A632
TOUZOT, G: Optimization of direct domain decomposition methods, 10A10
TOWERS, JD: Change in trabecular architecture as measured by fractal dimension, 10A1461
TOWFIGHI, J: Near-wake of a circular cylinder: Control by steady and unsteady surface injection, 1A1065
TOWHATA, I: Stress strain relationship of sandy soils obtained from centrifuge shaking table tests (Japanese), 10A649
TOWNE, MC: Numerical study of alternate forms of dynamic-stall-vortex suppression, 5T998
TOWNLEY, S: Uncertain systems and minimum energy control, 1A378
- Limit systems, limit gains and non-generic behaviors arising in adaptive stabilizing control, 3A311
TOWNSEND, DP: Vibration signature analysis of a faulted gear transmission system, 8A154
TOWNSEND, LW: Vibrational relaxation and sound absorption and dispersion in binary mixtures of gases, 7A327
TOWNSEND, MA: Stability of magnetic bearing-rotor systems having a central support backup bearing, 5A545
- Practical solution to the deterministic nonhomogeneous LQR problem, 12A357
TOWNSEND, P: Computation of 2D and 3D unsteady thermal non-Newtonian flows, 1A1209
- Simulation of highly elastic complex flows, 2A363
- Two- and three-dimensional expansion flows, 4A1045
TOY, N: Determination of starting shock velocity in supersonic wind tunnel, 3T1010
- Mixing characteristics of twin impinging circular jets, 4A1052
TOYAMA, M: Vibration of a cantilevered beam during deployment and retrieval: Analysis and experiment, 7A145
TOYODA, M: Random thermal fatigue in fast breeder reactor: A narrow-band spectrum, 9A1279
- Evaluation of specimen geometry effect on brittle fracture resistance based on the local approach (Japanese), 12A776
TOYOTA, H: Stress strain relationship of sandy soils obtained from centrifuge shaking table tests (Japanese), 10A649
TOYOTA, T: Study on plant inspection and diagnosis robot - 1st report: Conceptual design and fuzzy diagnosis of machine failures by sound information (Japanese), 2A321
- Study on plant inspection and diagnosis robot - 2nd Report: Searching method for the faulty machine based on sound spectrum and fuzzy navigation (Japanese), 9A466
TOZER, RM: Cold generation systems: A theoretical approach, 4A1225
TRABIA, MB: Adaptive path planning and obstacle avoidance for a robot with a large degree of redundancy, 7A428
TRACEY, EM: Rheological characterization of Hanford neutralized current acid waste simulant slurries, 12A1011
TRACOGNA, S: General class of two-step Runge-Kutta methods for ordinary differential equations, 2A37
TRACY, AL: Aeroelastic analysis of a composite bearingless rotor in forward flight using an improved warping model, 1A1131
TRAGESSER, SG: Aerocapture with a flexible tether, 4T369
TRAHAIR, NS: Prebuckling deformations and flexural-torsional buckling of arches, 1A648
- Plastic-collapse analysis of torsion, 2A744
- Lateral-buckling tests of cold-formed RHS beams, 3A552
- Three-dimensional nonlinear analysis of elastic arches, 5A733

TRAINTAFYLLIDIS, N: Post-bifurcation and imperfection sensitivity of space trusses with many simultaneously buckling bars and a strongly nonlinear prebuckling solution, 3A547

TRALLI, A: Simple and effective equilibrium models for vibration analysis of curved rods, 10A155

TRAMPCZYNSKI, W: 18G2A steel (construction steel) cyclic behavior in the case of complex uniaxial loading, 1A504

- Energetically most efficient trajectories for the heavy machine shoving process, 1A706

- Evolution of kinematic and isotropic hardening in the case of complex uniaxial loading, 10A542

TRAN, TA: Optical fiber sensing technique for edge-induced and internal delamination detection in composites, 2A342

- Multiple strain state measurements using conventional and absolute optical fiber-based extrinsic Fabry-Perot interferometric strain sensors, 7A882

- Recent developments in optical-fiber-based extrinsic Fabry-Perot interferometric strain sensing technology, 7A884

TRAN, TUAN A: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222

TRAN, V: Experimental and theoretical studies in subsea pipeline buckling, 3A558

TRAN-CONG, TON: Determination of arbitary, non-shearing end-loadings from the bulk stress on the lateral surface of a rectangular prism, 4A431

TRANKLE, TL: Identification of a nonlinear aerodynamic model of the F-14 aircraft, 4T336

TRANTINA, GG: Thermal shock analysis and testing of simulated ceramic components for gas turbine applications, 10A1400

TRAPLE, J: Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), 3A590

TRASORRAS, JRL: Net Shape Processing of Powder Materials, AMD-Vol 216 - Proc from Int Moch Eng Congress and Expo, Nov 1995, San Francisco, 4N17

TRAUB, LW: Effects of delta planform tip sail incidence and arrangement on wing performance, 2T1013

- Simple prediction method for location of vortex breakdown on delta wings, 9T1219

TRAUB, P: Acoustics of a counter-rotating shrouded propfan: Prediction and data, 2A208

TRAUTMANN, CH: Laboratory modeling of laterally-loaded drilled shafts in clay, 6A541

TRAVERIA, A: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843

TRAVERS, TG: Laminar fluid flow in a planar 90° bifurcation with and without a protruding branching duct, 9A1148

TRAVERSA, E: Intelligent ceramic materials for chemical sensors, 7T415

TRAVERSONI, L: Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995, 1N27

TRAVKIN, VS: Influence of morphology upon two-temperature statements for convective transport in porous media, 8A1113

TRAVNICEK, Z: Mass transfer at impact flowing with Coanda effect (German), 8A1241

TRAYKOVSKI, P: Travel-time perturbations due to internal waves: Equivalence of modal and ray solutions, 7A333

TREANOR, CE: Kinetics of nitric oxide formation behind shock waves, 10A1098

TREBICKI, J: Modeling of curvilinear random fatigue crack growth, 2A603

TREBINSKI, R: Investigations of the combustion products of aluminum in explosion processes, 9A332

- Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, 9A726

TRECANT, M: Dynamic compaction of calcium phosphate biomaterials, 3A1410

TREFETHEN, LN: Pseudospectra for the wave equation with an absorbing boundary, 12A308

TREHAN, SK: Nonlinear instabilities in superposed fluids in the presence of adsorption, 5A957

TREITZ, T: Changes in segment mass and mass distribution during pregnancy, 6T1330

TRELA, J: Transformation of AlGaAs-GaAs interface under hydrostatic pressure, 9A1283

TREMBLAY, M: Control of traffic-induced vibration in buildings using vehicle suspension systems, 12A198

TRENTADUE, A: Dynamic behavior of a mobile robot vehicle with a two caster and two driving wheel configuration, 7A399

TREPANIER, J-Y: Grid influence on upwind schemes for the Euler and Navier-Stokes equations, 9A88

TREPANIER, JY: Error estimator and adaptive moving grids for finite volumes schemes, 4A61

TRESHCHEV, AA: Constitutive equations for isotropic multimodulus media: Quasilinear relations, 3A3

TRESVYATSKII, AN: Experimental study of distributed systems with a large number of impact pairs, 3T766

TRETHEWEY, MW: Beam element structural dynamics modification using experimental modal rotational data, 5A116

- Discretization considerations in moving load FE beam models, 7A12

TREUNER, M: Thermocapillary flow in drops under low gravity analyzed by the use of liquid crystals, 2A931

TREVELYAN, J: Static calibration of industrial manipulators: Design of an optical instrumentation and application to SCARA robots, 11A395

TREVINO, C: Mixing layer ignition of hydrogen, 1A1312

- Effects of displacement induced by thermal perturbations on the structure and stability of boundary-layer flows, 7A1098

- Film condensation generated by a forced cooling fluid, 10A1276

- Heat transfer across a vertical wall separating two fluids at different temperatures, 11A1117

- Transient conjugate condensation process on a vertical plate with finite thermal inertia, 11A1175

TREXLER, CA: Unsteady pressure behavior in a ramjet-scramjet inlet, 11A1312

TRIANTAFILLIDIS, S: Limit systems, limit gains and non-generic behaviors arising in adaptive stabilizing control, 3A311

TRIANTAFYLLOU, MS: Damping amplification in highly extensible hysteretic cables, 3A129

- Deep water mooring dynamics, 3A130

- Nonlinear response of two disordered pendula, 7A111

- Shock waves in curved synthetic cables, 10A166

TRIBBLE, AC: US and Russian thermal control coating results in low Earth orbit, 7A992

TRIBES, C: Improved model for predicting the dynamic behavior of adsorption systems, 5A1180

TRIBILLO, R: Data generation in the analysis of wall-plate building structures (Polish), 6A774

TRICARICO, P: Explosion, earthquake, and ambient noise recordings in a Pliocene sediment-filled valley: Inferences on seismic response properties by reference- and non-reference-site techniques, 12A1371

TRIEP, E: Large accelerations and tectonic setting of the May 1993 Shumagin Islands earthquake sequence, 6A1228

TRIFONI, V: Two-dimensional methodology to predict vertical axis wind turbine performance, 3A1381

TRIFU, C-I: Source parameters of mining-induced seismic events: An evaluation of homogeneous and inhomogeneous faulting models for assessing damage potential, 3A1350

TRIFUNAC, MD: Empirical criteria for liquefaction in sands via standard penetration tests and seismic wave energy, 4A606

TRIGGS, B: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292

TRILLER, MJ: Selection of component modes for Craig-Bampton substructure representations, 10A240

TRIMARCO, C: Dissipation of configurational forces in defective elastic solids, 1A459

TRIMIS, D: Measurement of instantaneous flow rates in periodically operating injection systems, 7A1191

TRIPATHI, D: Effect of support matrix on interfacial shear strength determination by the bimatrix fragmentation technique, 12A540

TRIVEDI, HK: Evaluation of fatigue and wear characteristics of M50 steel using MIL-L-7808K, 12A924

TRIVIC, D: Computer program for the temperature distribution within the fin of water wall, 1A1251

TRNKA, J: Vibration analysis of cylindrical shells in contact with an annular fluid region, 4A289

- Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, 12A263

TROCCAZ, J: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292

TROCHU, F: Directional permeability measurement of deformed reinforcement, 12A486

TROCZYNSKI, T: Stochastic model for an R-curve due to crack bridging, 3A671

TROESCH, AW: Effects of threshold singularities on a dynamical system with intermittent contact and breakage, 2A82

- Vortex lattice method for high-speed planing, 9A1221

TROGER, H: Equations of motion of the folded inextensible string, 5A491

TROITSKY, MS: Designing reinforced concrete short-tied columns using the optimization technique, 3A796

- Numerical modeling of ice jam resistance to main channel flow, 4A928

TROKOZ, YY: Surface nonisothermness effect on profiled surface condensation enhancement, 8A1140

TROLINGER, J: Holographic nondestructive testing, 4A769

TROLINGER, JD: Civil and structural engineering measurements with interferometry, shearography, and holography, 6T702

TROMBETTI, F: Analysis of similarity laws in a pressure-gradient boundary layer over gentle obstacles, 2A1265

TROMP, JC: Temporal evolution of 3D vortex breakdown from steady, axisymmetric solutions, 8T972

TROMPETTE, P: Optimal structural damping of skis using a genetic algorithm, 2A146

- New approach to free-form surface mesh control in a CAD environment, 2A831

TRONCONI, E: Laminar flow and forced convection heat transfer in plate-type monolith structures by a FE solution, 8A1073

TROPIS, A: Certification of the composite outer wing of the ATR72, 6A1012

TROSHCHENKO, VT: Influence of plastic prestraining on brittle fracture resistance of metallic materials with cracks, 1A1417

TROSTMANN, E: Water Hydraulics Control Technology, 9N23

TROTSENKO, VA: Free oscillations of liquid in a rectangular canal with elastic membrane on the free surface, 9A316

TROUTT, TR: Numerical models for two-phase turbulent flows, 6A998

- Concentration measurements in a self-excited jet, 12A1130

TROUVE, A: Applications of direct numerical simulation to premixed turbulent combustion, 11A1276

TROVALUSCI, P: Masonry as structured continuum, 5A465

TROWBRIDGE, D: Rheology of long-chain randomly branched polybutadiene, 12A1012

TRUBACHEV, MI: New model of isoparametric FE for shell calculations, 3A37

TRUBCHIK, IS: Asymptotic analysis of the surface settlement shape for transversely inhomogeneous half-space at a circular punch indentation, 5A404

TRUC, J: Modeling of thermal stresses during an electron-beam welding process, 10A1329

TRUE, B: Crossflow mixing of noncircular jets, 8A969

TRUETT, L: Inhibition of premixed methane-air flames by fluoromethanes, 9A1311

TRUEVTZEV, NN: Software package for the prediction of woven fabrics' geometrical and mechanical properties, 6T430

TRUFANOV, NA: Technological stresses in a composite plate with a honeycomb filler, 6A485

TRUHLAR, ED: RE (Ted) Munn - Founding editor: A mini-biography, 12A1422

TRUJILLO, JYD: Non-Huygens flame configuration in stagnation flow, 3A1211

TRUMAN, AW: Analysis of sub-rate control systems, 8T297

TRUMAN, CE: Comparison of plane and axisymmetric contacts between elastically dissimilar bodies, 10T990

TRUMAN, KZ: Behavior of asymmetric building systems under a monotonic load - II, 6A158

- Behavior of asymmetric building systems under a monotonic load - I, 6A157

- Comparison of linear and nonlinear seismic drift histories for midrise steel frames, 12A1398

TRUMBLE, KP: Comparison of three mechanical models for cold roll bonding metal laminates, 9A697

TRUMEL, H: Finite strain elastic-plastic model for the quasi-static behavior of particulate composites, 11A470

TRUNEV, AV: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314

TRUNIN, II: Temperature-force dependence of the resistance to fracture of high-temperature materials with allowance for the kind of the stressed-strained state, 6T1169

TRUONG, KV: Oscillatory behavior of helicopter rotor airloads in the blade stall regime, 2T1050

TRUONG, T-V: Eighth European drag reduction meeting held on September 23 - 24, 1993, Lausanne, Switzerland, 2A954

TRUSHIN, OV: Use of the elementary heat balance technique in temperature field calculations, 11A1204

TRUSKEY, GA: Numerical investigation and prediction of atherogenic sites in branching arteries, 5A1393

- Focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries, 11A1464

TRUSOV, BG: Comparative analysis of plasma and fire technologies of pulverized coal ignition, combustion and gasification using a mathematical model of a chemically nonequilibrium system, 12A1313

TRUSOV, PV: Objective function construction for the multi-criteria problems of cyclic bending, 2A398

TRUSS, RW: Double torsion testing of prescription lenses, 4A765

TRUSSELL, RR: Explicit mathematical models of distribution storage water quality, 2A1277

TRUTY, A: Determining limit states of ARC sewage tank subjected to imposed strains and external loads, 3A820

- Determining limit states of ARC sewage tank subjected to imposed strains and external loads, 9A973

TRYGGVASON, G: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29

- Front-tracking method for dendritic solidification, 6A1120

- Numerical simulations of 3D drop collisions, 9A1124

- Inverse energy cascade in 2D low Reynolds number bubbly flows, 11A1047

TRYON, RG: Development of a reliability-based fatigue life model for gas turbine engine structures, 8A598

TRZNADEL, Z: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450

TSAHALIS, D: Genetic algorithm for active noise control actuator positioning, 5A278

TSAI, BOR-JANG: Cone-derived waverider flowfield simulation including turbulence and off-design conditions, 10A1093

TSAI, C-J: Efficient, robust second-order total variation diminishing scheme, 6T203

TSAI, CC: Failure analysis of woven-fabric composites with molded-in holes, 6A665

TSAI, CHIN-CHIN: Comparison of three solvers for viscoelastic fluid flow problems, 4A18

TSAI, CHIN-SHIONG: State-space solutions to H^{∞} sampled-data control problems, 2T268

TSAI, CHUN-HUNG: High temperature heat transfer of separated flow over a sudden-expansion with base mass injection, 11A1138

TSAI, CHUNG-SHIN: Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723

TSAI, CS: TPEA device as seismic damper for high-rise buildings, 2A1249

- Procedure for time-domain seismic analyses of concrete dams, 7A1381

- Seismic study of buildings with viscoelastic dampers, 8A158

TSAI, HL: Effects of the rate of latent heat release on fluid flow and solidification patterns during alloy solidification, 11A611

TSAI, HSIANG-CHUAN: Methods to compute dynamic response of a cantilever with a step to limit motion, 5A122

- Envelope of Green's function for structural response with slightly detuned vibration absorbers, 6A175

TSAI, ING JYH: Machining and on-line measurement of spatial cams on four-axis machine tools, 3A623

TSAI, JH: Modeling dump combustor flows with and without swirl at the inlet using Reynolds stress models, 1A1333

TSAI, JING-FA: Capped propeller test and analysis, 5A987

TSAI, JJ: Probabilistic analysis of ocean outfall mixing zones, 10T1453

TSAI, JUNG-SHUN: Nonlinear stability analysis of magnetohydrodynamic condensate film flow down a vertical plate with constant heat flux, 5A982

- Weakly nonlinear stability analysis of condensate film flow down a vertical cylinder, 11A1176

TSAI, KC: TPEA device as seismic damper for high-rise buildings, 2A1249

- Cyclic performance of steel beam-column moment joints, 4A869

TSAI, KUN-HSIEH: Micromechanics of fiber pull-out, 12A727

TSAI, L-W: Multiobjective optimization of a log mechanism with various spring configurations for force reduction, 12A974

TSAI, LUNG-WEN: Stiffness of a novel six-dof parallel manipulator, 4A402

- Kinematic analysis of epicyclic-type transmission mechanisms using the concept of fundamental geared entities, 12A980

TSAI, MC: Experimental study of the effects of cam speeds on cam-follower systems, 9A994

TSAI, MI-CHING: State-space solutions to H^{∞} sampled-data control problems, 2T268

- Variable-speed method for improving motion characteristics of cam-follower systems, 12A954

TSAI, MING JIUNG: Numerical investigation of multiple flame configurations in convective droplet gasification, 3A1227

TSAI, SF: Petrov-Galerkin formulation for incompressible flow at high Reynolds number, 9T42

- Monotone multidimensional upwind FEM for advection-diffusion problems, 10A1275

TSAI, SO-YENN: Natural convection of micropolar fluids in a 2D enclosure with a conductive partition, 1A1190

TSAI, STEPHEN W: Analysis and optimum design of composite grid structures, 10A592

- Three-dimensional effective moduli of symmetric laminates, 12A561

TSAI, TC: Vibration analysis and diagnosis of a cracked shaft, 11A151

TSAI, TZONG-MO: Uniform approximation of the density function of a string equation using eigen-

values and nodal points and some related inverse nodal problems, 3A131
TSAI, WU-TING: Computation of nonlinear free-surface flows, 6A903
TSAI, YC: Decomposing solid models into depression and protrusion features, 4AR58
TSAI, YU-ZEN: Edge dislocation of constant velocity near a static internal crack, 1A792
- Elastic interaction between a moving screw dislocation and a surface crack, 8A387
TSAKIROPOULOS, P: Evaluation of the effect of sizing levels on transverse flexural and shear strengths of carbon-epoxy composites, 6A423
TSAKMAKIS, C: Analysis of rate- and material parameter-dependent limiting cases in viscoplasticity laws, 3A457
- Development of passive microvalves by the FEM, 3A392
- Formulation of viscoplasticity laws using overstresses, 9A503
- Stress tensors associated with deformation tensors via duality, 10A3
TSAMASPHYROS, G: Energy considerations in the boundary collocation method applied in fracture, 12A775
TSANG, C-F: Fractured and jointed rock masses - Proc of 2nd Conf, Lake Tahoe CA, June 1992, 12N25
TSANG, KM: Identification of linear and nonlinear continuous time models from sampled data sets, 5A304
TSANG, TATE TH: Transient solutions by a least-squares FEM and Jacobi conjugate gradient technique, 1A1227
- Transient solutions for 3D lid-driven cavity flows by a least-squares FEM, 2A16
TSANG, TY: Novel approach to the dynamic analysis of highly deformable bodies, 3A86
TSANG, W: Thermochemical and chemical kinetic data for fluorinated hydrocarbons, 11A1286
TSAO, HENG-KWONG: Simple shear flows of dilute gas-solid suspensions, 1A967
- Simple shear flows of dense gas-solid suspensions at finite Stokes numbers, 11A933
TSAO, RAYCHANG: Effects of wall shear stress and fluid recirculation on the localization of circulating monocytes in a 3D flow model, 5A1386
TSARICHENKO, SG: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
TSATSARONIS, G: Thermal Design and Optimization, 5N30
TSAY , CHING-HSU: Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, 10A366
TSAY, CHUNG-BIAU: Mathematical model and bearing contacts of the ZK-type worm gear set by oversize hob cutters, 7A1099
TSAY, DER MIN: Synthesis of follower motions of camoids using nonparametric B-splines, 8A804
- General approach to the determination of planar and spatial cam profiles, 12A951
TSAY, YL: Heat transfer enhancement through liquid film evaporation into countercurrent moist air flow in a vertical plate channel, 3A1091
- Effects of binary mixture condensation on turbulent mixed convection heat and mass transfer in a vertical channel, 11A1262
TSCHEGG, EK: Cracks at mortar-stone interfaces, 2A643
- Fracture mechanical behavior of aggregate-cement matrix interfaces, 3A719
- Fracture resistance to the crack propagation in wood, 12A762
TSCHUPIK, J: EBRA: A method to measure migration of acetabular components, 1A1459
TSELIKOV, VA: Experimental study of TPU turbines of some domestic liquid-propellant engines, 11A1053
TSENG, AA: Multidimensional inverse transient heat conduction problems by direct sensitivity coefficient method using a FE scheme, 10A1296
TSENG, CH: New high-order non-uniform Timoshenko beam FE on variable two-parameter foundations for vibration analysis, 9A188
TSENG, CHING-CHI: Experimental study of the heat transfer enhancement of an outer tube with an inner-tube insertion, 2A1087
TSENG, CHING-SHIOW: Path planning for robot manipulators in polyhedral objects environment, 2A319
TSENG, CI: Simulation of a bimorph transducer under acoustic excitation, 7A901
TSENG, H: Protein kinases as mediators of fluid shear stress stimulated signal transduction in endothelial cells: A hypothesis for calcium-dependent and calcium-independent events activated by flow, 5A1390
TSENG, HC: Aircraft antilock brake system with neural networks and fuzzy logic, 3A362
TSENG, L-K: Experimental realization of premixed methane-air cylindrical flames, 1A1343
TSENG, PENG-HSIANG: Partitioned solution procedure for simulating water flow in a variably saturated dual-porosity medium, 4T1308
TSENG, YP: Stability of laminated plates using finite strip method based on a higher-order plate theory, 7A663
TSETSOKHO, VA: Local optimization technique for the solution of the problem of nonlinear seismic tomography, 8A1347
TSINOBER, A: Alignments and small scale structure in turbulent pipe flow, 2A986
TSIOTRAS, P: Principal rotation representations of proper N × N orthogonal matrices, 4A130
- Analytic solution of Euler's equations of motion for an asymmetric rigid body, 9A136
- Stabilization and optimality results for the attitude control problem, 12A391
TSITOURAS, C: Continuous Runge-Kutta(-Nystrom) methods with reduced phase-errors, 12A39
- General family of explicit Runge-Kutta pairs of orders 6(5), 12A43
TSO, CP: Distributed study of air temperature inside a dry-expansion evaporator, 7A1272
- Analysis of thin film thickness determination in two-phase flow using a multifiber optical sensor, 11A1081
TSO, WK: Evaluation of seismic torsional provisions in uniform building code, 2A1251
- Seismic displacements of torsionally unbalanced buildings, 3A1324
TSO, YK: Vibratory power transmission through 3D beam junctions, 2A226
- Wave propagation through cylinder-plate junctions, 3A177
TSOPELAS, P: Experimental study of FPS system in bridge seismic isolation, 6A1280
- Experimental study of bridge seismic sliding isolation systems, 8A145
TSOTRIDIS, G: Irradiation devices and irradiation programs at the high flux reactor Petten for the investigation of the irradiation behavior of stainless steels, 3A1362
TSOU, FK: Numerical studies of non-Newtonian channel flow and heat transfer enhancement for electronics modules, 3T1062
- Laminar heat transfer in square duct flow of aqueous CMC solutions, 4A1144
TSOUKALAS, D: Miniature self-aligned pressure sensing element, 10A463
TSOUVALIS, NG: Large deflection dynamic response of composite laminated plates under in-plane loads, 7A610
- Large deflection dynamic response of composite laminated plates under lateral loads, 12A163
TSUBOI, A: High-precision grinding and turning for optics with 3D profile, 9A713
TSUBOI, M: Methodology of evaluating a frictional coefficient and a deformation modulus based on geosythetics pull-out tests (Japanese), 10A666
TSUBOI, T: Simulation of stick-slip shear failure of rock masses by a nonlinear FEM (Japanese), 11A577
TSUBOSAKA, N: Stress analysis of junction of plate and shell built-up structures via special finite shell element, 10A614
TSUBOTA, M: Dynamics of laser-induced bubble in pressurized liquid nitrogen, 11T935
TSUCHIDA, M: Finite element analysis of edge lamination during hot rolling process of aluminum alloy, 1A716
TSUCHIDA, T: Horizontal coefficient of consolidation c_h (Japanese), 10A652
TSUCHIDA, Y: Flow-history effect on higher modes in the spherical Couette system, 1A1073
TSUCHIKANE, A: Influence of joints and soft tissue on the natural frequency of the human tibia using the impulse response method, 3A1401
TSUCHIKURA, T: Analysis of rockfall by the dynamic granular element method, 4A624
- Application of the granular element method to the stability analysis on the models of rock slopes (Japanese), 4A615
TSUCHIYA, K: Recursive formulations of a flexible multibody system by the method of weighted residual, 12A446
- Electrostatic linear actuator developed as a biomimicking muscle: Force generated by a 2D integrated actuator, 12A435
TSUCHIYA, T: Finite element simulation of dynamic responses of piezoelectric actuators, 10A492
- Formulation and theory of the Newton interior-point method for nonlinear programming, 12T350
TSUDA, N: Principle and application of scanning probe microscope (Japanese), 7T870
TSUDA, Y: Polygonal deformation of roll-covering rubber, 9A278
TSUEI, YG: Estimation of system matrices by dynamic condensation and application to structural modification, 4A810
- Extraction of normal modes for highly couples incomplete systems with general damping, 6A271
TSUGAI, M: Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, 6T350
TSUGE, A: Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, 1T257
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, 1T265
TSUI, R: Resonance capture in unbalanced dual-spin spacecraft, 4T299
TSUI, T: [1,2]-order theory for elastodynamic analysis of thick orthotropic shells, 1A626
TSUI, TY: Influences of stress on the measurement of mechanical properties using nanoindentation - Part I: Experimental studies in an aluminium alloy, 8A692
TSUI, YENG-YUNG: Investigation of the mixing flow structure in multilobe mixers, 12A1128
TSUJI, B: Strain-hardening behavior of shear panels made of low-yield steel - II: Model, 6A739
- Energy input and dissipation behavior of structures with hysteretic dampers, 10A1437
TSUJI, H: Effect of sensitizing heat treatment on fatigue crack growth properties at liquid helium temperature, 1A753
- Vibration control by optimal trajectory with feedback system: Suppression of residual vibration, 6A119
- Attachment of the flame sheet to the carbon surface in a carbon combustion model: On the surface constraining conditions, 9A1330
TSUJI, M: Three-dimensional coupled thermal stresses in infinite plate subjected to a moving heat source, 11A1248
TSUJI, Y: Progress in the research of the dynamical structure in wall turbulence, 1A1084
- Elucidation of concrete flow mechanism in the truck agitator by distribution of velocity vector (Japanese), 6A938
TSUJII, T: Evaluation of ground properties in deep soil improvement method and its application to automization of construction (Japanese), 10T671
TSUJIKAMI, T: Three-dimensional intelligent FEM for design of composite structures: Design of symmetric laminates by shell element (Japanese), 1A584
- Development of 3D FEM for composite materials based on damage mechanics (Japanese), 1A17
TSUJIKAWA, Y: Analysis of an optimal flight path of subsonic transport aircraft for fuel saving, 6A1019
TSUJIMOTO, K: Direct numerical simulation of a turbulent flow in a channel having periodic pressure gradient, 5A939
TSUJIMOTO, Y: Study of vaneless diffuser rotating stall based on 2D inviscid flow analysis, 9A1238
- Frequency dependence of mass flow gain factor and cavitation compliance of cavitating inducers, 12A1023
TSUJIOKA, K: Integrated optimum design of structure and H^{∞} control system, 6A717
TSUKADA, T: Measurement of surface roughness with small waviness by contact stylus instrument correcting specimen orientation, 1A863
- Assessment of cylindricity and related features for crank shaft by 3D form measurement - 2nd report: Assessment of related features (Japanese), 2A334
- Assessment of form errors and data processing by some optimization techniques (Japanese), 2T53
- Study on evaluation of circularity and related features for eccentric cam shaft - 2nd report: Measured results and discussion, 3A839
- Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - 1st report: Theoretical foundation, 3A739
- Correction of specimen orientation in 3D measurement of surface roughness with small waviness by contact stylus instrument - Second report: Simulation and experimental verification, 7T894
- General tolerancing in design object modeling (Japanese), 12A836
- Numerical simulation of heat transfer in floating zone single crystal growth process with radio-frequency induction heating, 12A1239
TSUKAMOTO, H: Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf, 2N48
- Response of a centrifugal pump to fluctuating rotational speed, 5A1026
TSUKAMOTO, N: Profile calculation method for form grinding wheels: Theoretical analysis of error transmission and its application, 7A753
TSUKAMOTO, T: Effect of stacking sequence on fracture mechanism of quasi-isotropic carbon-epoxy laminates under static tensile loading (Japanese), 7A554
TSUKAMOTO, Y: Numerical simulation of bucket trajectory control in autonomous shoveling of fragment rocks by using a wheel dozer (Japanese), 10A688
TSUKANOVA, TA: Brittle fracture of a compressed cylinder, 9A835
TSUKRUK, VV: Reconstruction of fluid Langmuir monolayers under shear forces, 10T1232
TSUMORI, H: Diamond synthesis by magnetic field assisted arc discharge plasma jet CVD (Japanese), 11A617
TSUMURA, N: Direct contour mapping system with pattern recognizing faculties (Japanese), 5A341
TSUMURA, T: Development of 3D FEM for composite materials based on damage mechanics (Japanese), 1A17
TSUNODA, H: Depolyment mechanism for a large reflector: Thermal-design verification using flight data, 5A743
TSURUI, T: Development of multiaxial creep testing machine using cruciform specimen (Japanese), 12A783
TSURUMI, N: Parameter identification for steady-state groundwater flow, 4A980
TSUSHIMA, M: Undrained strength of highly organic soil and its suction measured before shear test (Japanese), 4A600
TSUTSUI, M: Evaporation heat transfer of falling films on horizontal tube - Part 2: Experimental study, 9A1261
- Evaporation heat transfer of falling films on horizontal tube - Part 1: Analytical study, 9A1260
TSUTSUMI, H: Development of an automatic scraping machine with recognition for bearing of scraped surfaces - 2nd Report: Development of a scraping motion mechanism (Japanese), 11A607
TSUTSUMI, M: Study on CAM system for machining of mesh surface: Relation of machining accuracy, error of normal vector and mesh interval (Japanese), 1A729
- Mathematical model of feed drive mechanical system and friction for CNC machine tools (Japanese), 4A863
- Study on CAM system for 5-axis controlled machining center: Efficient collision check and collision avoidance (Japanese), 7A747
- Static and dynamic stiffness of 1/10 tapered joints for automatic changing, 9A227
TSUTSUMI, T: Non-destructive testings and their feasibility study in concrete structures (Japanese), 4A816
- Study on crack models caused by pressure due to corrosion products (Japanese), 9A746
TSUYUKI, G: Galileo high-gain antenna deployment anomaly thermal analysis support, 3A1246
TSUYUKI, GT: On-orbit temperature distribution of a submillimeter-telescope primary-reflector panel, 5A750
TSUZAKI, M: PDGF-BB, IGF-I and mechanical load stimulate DNA synthesis in avian tendon fibroblasts *in vitro*, 5A1385
TSUZUKI, M: Finite element analysis of dynamic behavior of viscoelastic materials using FFT, 7A19
TSVANKIN, I: Velocity analysis for transversely isotropic media, 1A1382
- Body-wave radiation patterns and AVO in transversely isotropic media, 1A199
- P-wave signatures and notation for transversely isotropic media: An overview, 8A1328
- Fowler DMO and time migration for transversely isotropic media, 11A1372
TSVELODUB, IY: Inverse problems of nonelastic deformation, 5A429
TSVETKOVA, IN: Numerical simulation of the nonstationary impact interaction between deformable structural elements, 5A678
TSVIRKO, EN: Pultrusion mechanics of fiber-reinforced thermoplastic composites (Russian), 2A427
TSYBULSKY, OO: Determination of nonaxisymmetric stress-strained state of solids of revolution with transvere frames (Russian), 3A429
TSYBULYA, SD: Wear behavior of natural rubber-containing nickel-alloy costings, 6A808
TSYGANKOVA, NG: New process for the production of hydrocellulose fibers without using carbon disulfide, 6A870
TSYGANOK, AA: Heat transfer and limiting heat loads in water boiling on downward-facing plane and spherical surfaces, 1A1237
TSYNKOV, SV: Artificial boundary conditions for the numerical solution of external viscous flow problems, 2A891
- External flow computations using global boundary conditions, 9A1109
TU, CHEIN-CHERNG: Multiobjective optimization of hard disk suspension assemblies - Part I: Structure design and sensitivity analysis, 9A948
TU, CHENG: Pulsatile flow of non-Newtonian fluids through arterial stenoses, 12A1476
TU, EL: Navier-Stokes computations on flexible advanced transport wings in transonic regime, 11A1017
TU, JF: Strain field analysis and sensor design for monitoring machine tool spindle bearing force, 4A389
TU, W: Synthesis of spatially and intrinsically constrained curves using simulated annealing, 8A824
TU, ZHIHUA: Study of dynamic and mechanical behavior of SiCp/Al composite under tensile impact, 2A442
TUAN, HD: Linearization technique in robust nonlinear H ∞ control, 7A468
TUAN, PAN-CHIO: Input estimation approach to on-line 2D inverse heat conduction problems, 10A1295
TUCCI, A: Effect of microstructure on fracture toughness of polycrystalline alumina, 8A677
TUCHIDA, A: Critical strain of non-homogeneous rock masses (Japanese), 10A691
TUCK, EO: Laminar roughness boundary condition, 4A939
- Optimal rectangular end plates, 11T1018
TUCKER, AS: LMTD correction factor for single-pass crossflow heat exchangers with both fluids unmixed, 11T1216

TUCKER, PG: Dynamic thermal state in a hydrodynamic bearing with a whirling journal using CFD techniques, 10A1222
TUCSNAK, M: Regularity and exact controllability for a beam with piezoelectric actuator, 10T442
TUGCU, P: Cold drawing of elastic-thermoviscoplastic polymeric films and fibers, 1A957
- Thermomechanical analysis of upsetting of a cylindrical billet, 3A613
- Inertial effects in ductile failure of cylindrical tubes under internal pressure, 10A546
TUHKURI, J: Sandwich structures using ice loading - Theoretical and experimental investigations, 3A540
- Experimental investigations and computational fracture mechanics modeling of brittle ice fragmentation, 12A736
TUI, CG: Comparison of Lamb waves and pulse echo in detection of near-surface defects in laminate plates, 2A698
TUJI, Y: Numerical simulation of flows of liquid crystalline polymers through parallel plates containing a cylinder, 4A902
TUKER III, CL: Orthotropic closure approximations for flow-induced fiber orientation, 4A1005
TUKMAKOV, AL: Numerical simulation of nonlinear interaction between the elastic shell and gas stream, 11A229
TUKODOVA, OM: Approach to the solution of dynamic problems for laminated electroelastic and anisotropic media, 7A688
TULAPURKARA, EG: Prediction of aerofoil wake subjected to the effects of curvature and pressure gradient, 6A1024
TULEJ, PJ: Performance of residential refrigerators with ternary blends, 2A1146
TULLIN, CJ: Effect of SO_2 and NO on the conversion of fuel nitrogen to N_2O and NO in single particle combustion of coal, 3A1215
TULLINI, N: Beam theory for strongly orthotropic materials, 11A494
TUMIDAJSKI, T: Verification of mathematical models of kinetics of batch flotation, 9A1411
TUMIN, A: Three-wave nonlinear interaction in a 3D compressible boundary layer, 5A931
- Receptivity of pipe Poiseuille flow, 11A952
TUNCAY, K: Body waves in fractured porous media saturated by two immiscible Newtonian fluids, 12A1341
- Wave propagation in fractured porous media, 12A1343
TUNCER, IH: Thrust generation due to airfoil flapping, 7A1167
TUNCER, MA: Evaluation of Surgu dam response during May 5, 1986 earthquake, 5A1319
TUNG, CHEE: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046
TUNG, CW: Numerical studies of non-Newtonian channel flow and heat transfer enhancement for electronics modules, 3T1062
TUNG, ED: High-speed end milling using a feedforward control architecture, 11A593
TUNG, PI-CHENG: Analysis and design of a nonlinear robust controller, 12A362
TUOMINEN, I: Magnetic structures in a dynamo simulation, 7A1141
TUPHOLME, GE: Performance indicators for steady-state heat transfer through fin assemblies, 11A1102
TUR, W: Principles of design analysis of cylindrical prefabricated tanks prestressed by expanding concrete, 1A933
TUR, YK: Periodic tensile overloads in 2024-T3 Al-alloy, 5A599
TURA, JM: Frictional properties and wear of a molybdenum coating and a bronze (Cu-10%Sn) with friction modifier fillers, 4A843
TURAN, OF: Structural parameters and prediction of adverse pressure gradient turbulent flows: An improved k-ε model, 5A946
TURCHAK, LI: Gaseous flow originated by a gunshot - I:, 9T1110
TURCHIN, NM: Heat transfer and limiting heat loads in water boiling on downward-facing plane and spherical surfaces, 1A1237
TUREK, S: Artificial boundaries and flux and pressure conditions for the incompressible Navier-Stokes equations, 8A906
- Non-newtonian flow prediction by divergence-free FEs, 9A41
- Comparative study of time-stepping techniques for the incompressible Navier-Stokes equations: From fully implicit nonlinear schemes to semi-implicit projection methods, 11A901
TUREK, Z: Group properties and similarity solutions for the heat equation with semi-empirical temperature, 6A1
TURGIS, P: General approach to discontinuous transfer films: The respective role of mechanical and physico-chemical interactions, 6A813
TURGUTLU, A: Experimental investigation of deformation and jetting during impact spot welding, 2A834
- Impact deformation of polymeric projectiles, 6A188
TURHAN, O: Dynamic stability of four-bar and slider-crank mechanisms with viscoelastic (Kelvin-Voigt model) coupler, 4A581
TURKEL, E: Nonreflecting boundary conditions for jet flow computations, 4A1053
- External flow computations using global boundary conditions, 9A1109
TURKIYYAH, G: Fast vortex methods for predicting wind-induced pressures on buildings, 4T295
TURKIYYAH, GM: Computational procedures for topological shape design, 1A867
TURKKAN, N: Solving the forward kinematics of parallel manipulators with a genetic algorithm, 7A437
TURKMEN, D: Influence of shear properties and fiber imperfections on the compressive behavior of GFRP laminates, 12A547
TURKNETT, JC: Two-dimensional wall temperature measurements and heat transfer enhancement for top-heated horizontal channels with flow boiling, 4T1180
TURKOGLU, H: Numerical analysis of fluid flow and mass transfer in a channel with a porous bottom wall, 2A1171
TURNBULL, A: Effect of grain size, strain and temperature on the monotonic stress-strain behavior of polycrystalline aluminum and Al alloys, 5A440
- Effect of grain size on fatigue crack growth in an aluminum magnesium alloy, 5A592
- Effect of grain size on the fatigue of commercially pure aluminum, 6A604
- Predicting fatigue life in commercially pure aluminum using a short crack growth model, 6A607
TURNBULL, PF: Contact-induced nonlinearity in oscillating belts and webs, 3A128
TURNER, CE: Fully plastic ductile tearing of HY130 steel: An analysis by j.COD, energy rate and crack opening angle, 3A689
- Model for dynamic ductile crack growth, 9A841
TURNER, CH: Bone mineral lies mainly outside collagen fibrils: Predictions of a composite model for osteonal bone, 12A1443
TURNER, CV: Asymptotic behavior for the one-phase Stefan problem with a convective boundary condition, 10A1291
TURNER, DA: Effective data parallel self-starting explicit methodology for computational structural dynamics on the connection machine CM-5, 2A126
TURNER, IW: Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part II: The anisotropic model, 3A1269
- Unstructured mesh cell-centered control volume method for simulating heat and mass transfer in porous media: Application to softwood drying - Part I: The isotropic model, 3A1268
- Two-dimensional orthotropic model for simulating wood drying processes, 5A1179
- Control volume FEM of mechano-sorptive creep in timber, 7A1269
TURNER, J: Laser Anemometry - 1995 ASME/JSME Fluids Eng Conf, 2N44
TURNER, JA: Ultrasonic radiative transfer in polycrystalline media: Effects of a fluid-solid interface, 3A267
- Coupling and attenuation of waves in plates by randomly distributed attached impedances, 9A251
TURNER, MR: Analysis of the double cleavage drilled compression specimen for interface fracture energy measurements over a range of mode mixities, 1A839
- Fracture resistance measurement method for bimaterial interfaces having large debond energy, 1A814
- Experimental study of the mechanisms of crack extension along an oxide-metal interface, 8A663
TURNER, RH: Exergy analysis of a solar heating system, 3A1375
TURNER-SMITH, AR: Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, 4A1372
- Frictional action at lower limb-prosthetic socket interface, 10A1488
TURNOUR, SR: Modeling of flexible rotor blades for helicopter flight dynamics applications, 7A1184
TURNS, SR: Introduction to Combustion: Concepts and Applications, 8R32
- Understanding NO_x formation in nonpremixed flames: Experiments and modeling, 7A1325
- Theoretical effects of aluminum gel propellant secondary atomization on rocket engine performance, 11A1311
TUROVTSEV, G: Simple constitutive relationship for isotropic solids with stress-state type dependent properties, 1A8
TURPIN, E: Musculo-articular modeling of the triceps brachii, 6A1320
TURU, G: Mechanical response of saturated cemented materials - Part II: Experimental investigation and numerical simulations, 1A691
TURUSOV, RA: Numerical modeling of hardening polymers (Russian), 8A469
TURYN, L: Center-unstable manifold theorem for parametrically excited surface waves, 7A269
TUSHEV, ON: Analysis of the dynamics of nonlinear mechanical systems subjected to additive and parametric nonstationary random perturbations, 5T851
TUTHILL, AM: Probability distribution for peak stage on rivers affected by ice jams, 8A1402
TUTOVA, EG: Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, 10A1352
TUTTLE, ER: Generation of planar kinematic chains, 12A978
TUTTLE, M: Liquefaction-related ground failure: A case study in the New Madrid seismic zone, central US, 12A1381
TUTTLE, ME: Time-dependent response of IM7/5260 composites subjected to cyclic thermomechanical loading, 3A471
- Nonlinear viscoelastic-viscoplastic behavior of IM7/5260 composites subjected to cyclic loading, 4A520
- Time-dependent response of IM7-5260 composites subjected to cyclic thermo-mechanical loading, 9A551
- Controlling thermal stresses in composites by means of fiber prestress, 10A1338
- Damage tolerance predictions for stiffened composite panels - Part I: Strain field predictions, 11A676
- Incorporating manufacturing tolerances in near-optimal design of composite structures, 11A492
- Damage tolerance predictions for stiffened composite panels - Part II: Application of a failure criteria, 11A675
TUTTLE, SL: Drag measurements at Mach 5 using a stress wave force balance, 3A916
TUTTY, OR: Optimum drag balance for boundary-layer suction, 9T1138
TUTUNCU, N: Effect of anisotropy on stresses in rotating discs, 1A627
TUZLA, K: Boiling inception in falling films of binary mixtures, 6A1107
TVEITO, A: Approximation of scattered data using smooth grid functions, 1A68
TVERGAARD, V: Cavity growth in ductile particles bridging a brittle matrix crack, 6A656
- Three-dimensional analysis of dynamic ductile crack growth in a thin plate, 8A675
- Micromechanics of intergranular creep failure under cyclic loading, 12A768
TWARDOWSKI, K: Application of linear regression model of sonic wave to the evaluation of elastic properties of rocks (Polish), 3A590
TWAROWSKI, A: Temperature dependence of H + OH recombination in phosphorus oxide containing post-combustion gases, 10A1369
TWISDALE, LA: Prediction of hurricane wind speeds in the US, 3A1380
- Wind-field and filling models for hurricane wind-speed predictions, 3A1382
TWORZYDLO, WW: Adaptive FEMs for continuum damage modeling, 5A616
TYAGI, A: Design of class-I sedimentation tanks, 6T882
TYAGI, MR: Influence of surface roughness on friction and scuffing behavior of cast iron under sparse lubrication, 8A795
TYGEL, M: Unified approach to 3D seismic reflection imaging - Part II: Theory, 11A1381
- Unified approach to 3D seismic reflection imaging - Part I: Basic concepts, 11A1380
TYLER, JM: New 3D FE for adaptive h-refinement in 1-irregular meshes, 4A43
TYLIKOWSKI, A: Dynamic stability of rotating composite shafts, 8A130
TYRER, JR: Three-dimensional human femoral strain analysis using ESPI, 3A1414
- Phase-stepped ESPI and moire interferometry for measuring stress-intensity factor and J integral, 5A672
- Improved interferometric techniques for measuring flextensional transducer vibration patterns underwater, 12A316
TYSON, WR: Ligament-yield load of plates and cylinders with an axial semi-elliptical flaw, 1A798
- Strain rate effects on fracture toughness of ship plate steels, 11A691
TYSZKA, DA: Heat transfer and fluid mechanics measurements for the endwall boundary layer downstream of a streamlined strut, 11T1136
TYUKAYEV, VI: Numerical study of free convection in a strongly inhomogeneous gas medium, 1A1192
TYURIN, SA: Electric polarization of onsager fluids - I: Dipole polarization - 3: The role of universal pairwise interactions, 1A1090
- Electric polarization of Onsager fluids - II: Birefringence - 3: Role of universal pairwise interactions, 9A1209
TZAFEROPOULOS, MA: Comparison of two methods for the solution of a class of nonconvex energy problems using convex minimization algorithms, 2A369
- Numerical modeling of convex particle assemblies with friction, 4A1280
- Quasi-static discrete element model of granular materials, 8A1298
TZAFESTAS, C: Robust sliding-mode control applied to a 5-link biped robot, 7A427
TZAFESTAS, S: Robust sliding-mode control applied to a 5-link biped robot, 7A427
TZANNATOS, E: Potential of gas turbine propulsion in modern merchant shipping, 6A1027
TZATCHKOV, VG: Water quality model for continuous flow distribution networks, 10T1455
TZENG, GUANG-YAU: Finite element approach to global-local modeling in composite laminate analysis, 2A449
TZENG, JT: Viscoelastic analysis of thick-walled filament-wound composite cylinders with elevated temperatures, 12T555
TZENG, PEI-YUAN: Improvement of explicit multistage schemes for central spatial discretization, 6T35
TZENG, PY: Numerical study on mode-transition of natural convection in differentially heated inclined enclosures, 12A1214
TZENG, RUEIH-CHIR: Adaptive control of a zero-stiffness suspension system, 12A397
TZES, A: Application of frequency domain adaptive infinite impulse response filtering for identification of flexible structure dynamics, 6A269
- Neural network design with genetic learning for control of a single link flexible manipulator, 9A462
TZIVANIDIS, C: Finite-difference prediction of transient indoor temperature and related correlation based on the building time constant, 12A1266
TZOU, DA YU: Generalized lagging response in small-scale and high-rate heating, 2A1136
- Experimental support for the lagging behavior in heat propagation, 3A1105
TZOU, DY: Penetration into ductile metal targets with ridid spherical-nose rods, 2A167
TZOU, GOW-YI: Analytical approach to asymmetrical hot-sheet rolling considering the effects of the shear stress and internal moment at the roll gap, 3A595
TZOU, HS: Analysis of piezoelastic structures with laminated piezoelectric triangle shell elements, 6A507
- Dynamics and control of nonlinear circular plates with piezo5
TZOU, HS: Analysis of piezoelastic structures with laminated piezoelectric triangle shell elements, 6A507
- Dynamics and control of nonlinear circular plates with piezoelectric actuators, 6A728
- Spatially filtered multi-field responses of piezothermoelastic cylindrical shell composites, 8A731
- Nonlinear opto-electromechanics and photodeformation of optical actuators, 11A738
- Spatially filtered vibration control of cylindrical shells, 12A834
TZOU, J-C: Hodograph and the balancer of any frequency term of the shaking force of spatial mechanisms, 11A148

U

UBERTINI, L: Hydrometeorology: Proc from MIT/CNR meeting, Perugia, June 1994 and GNDCI Decade Celebration, Rome, December 1994, 10T1445
UBUKATA, S: Influence of internal liquid on buckling of circular cylindrical shells partially submerged in a liquid, 5A532
UCHIDA, N: Mask-to-wafer fine gap setting method, 1A384
UCHIDA, Y: Determination of tension softening diagram of concrete by poly-linear approximation analysis and flexural failure behavior of fiber reinforced concrete (Japanese), 9A910
UCHIKAWA, T: Simplified NDE of a closed vertical crack using ultrasonics, 4A778
UCHITA, Y: Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), 7T712
UCHIYAMA, C: Systematic projection operator formalism in nonequilibrium statistical mechanics, 10A1243
UCHIYAMA, M: Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentations, 3A344
- Optimal geometric structures of force-torque sensors, 4A407
UCHIYAMA, N: Shock wave-vortex interaction in a flow over 90-deg sharp corner, 2T187
- Disassembly path generation to verify the assemblability of mechanical products, 6A853
UDA, Y: Development of measurement system on angular profile of the polygon mirror surface (Japanese), 11A705
UDAYKUMAR, HS: ELAFINT: A mixed Eulerian-Lagrangian method for fluid flows with complex and moving boundaries, 10A1082
UDOEYO, FF: Dimensional variations in reinforced-concrete members, 6A744
UDOVENKO, VA: Surface treatment effect on bulk magnetoelastic properties of high damping Fe-based alloys, 9A991
UDPA, S: Transient fields of pulsed transducers in solids, 6A708
- Numerical analysis of the radiated fields of ultrasonic transducers, 8A698
UDWADIA, FE: Analytical Dynamics: A New Approach, 12R3
- Geometry of constrained motion, 1A88
UEDA, A: Stress analysis of bimaterial strip with debondings under tension, 10A774

UEDA, D: Study on the total tuning of feed drive systems in NC machine tools - 3rd Report: Single axis mechanical parameter tuning (Japanese), 9A711
UEDA, H: Controlling chaos in a switched arrival system, 5A356
UEDA, K: Characterization of shock accelerometers using Davies bar and laser interferometer, 2A681
- Rigid-plastic FEM analysis of 3D cutting mechanisms - 2nd Report: Simulation of plain milling process (Japanese), 11A600
UEDA, M: Ultrasonic scattering from a simulated cavity in steel, 3A277
- Fast converging binomial series for radiation field calculation, 3A299
- Light attenuation in a semitransparent foam sheet: Thickness measurement for industrial use, 7A879
- Real-time optical monitoring system for dye color and concenration, 10A858
UEDA, N: Chipping mechanism in slot grinding of Mn-Zn ferrite - 1st report: Quantitative measurement of chipping (Japanese), 2T550
UEDA, T: Quantitive evaluation of shear strength of concrete beams reinforced with FRP rods (Japanese), 2A761
- Finite element analysis on shear resisting mechanism of concrete beams with shear reinforcement, 2A9
- Shear strength of prestressed concrete beams with FRP tendon (Japanese), 2A770
- Measurement of tool-workpiece interface temperature by two-color pyrometer (Japanese), 4T1140
- Chip forming temperature on micro cutting - 2nd report: Influence of cutting speed and material properties on thermal partition coefficient (Japanese), 7A762
- Effect of coolant of water-solution in superfinishing: Application of electrolytic in-process dressing (Japanese), 9A727
- Superfinishing of fine ceramics: Influence of grain size on finishing performance (Japanese), 9A739
UEDA, Y: Medical application of micromachine technology (Japanese), 9T1457
- Prediction of residual stresses in welded T- and I-joints using inherent strains, 10A558
UEHA, S: Error evaluation of the structural intensity measured with a scanning laser Doppler vibrometer and a k-space signal processing, 10A139
UEHARA, H: Performance analysis of an OTEC plant and a desalination plant using an integrated hybrid cycle, 11A1431
UEHARA, S: Effect of the dewatered vertical drain method against soil liquefaction (Japanese), 10A655
UEKAWA, A: Measurement of 3D objects using gray code projection (Japanese), 2A705
UEKI, A: Finite-element analysis of LSI packages with 3D steady heat transfer and fluid flow by the SIMPLE algorithm formulation, 7A1277
UEKI, H: Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, 7T1341
UEMATSU, Y: Wind load and wind-induced response estimations in the recommendations for loads on buildings, AIJ 1993, 10A210
UENG, CES: Creep phenomenon of simple composite structures, 4A448
UENISHI, Y: Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, 6T350210
UENG, CES: Creep phenomenon of simple composite structures, 4A448
UENISHI, Y: Micro-opto-mechanical devices fabricated by anisotropic etching of (110) silicon, 6T350
UENO, F: Study on metallographic damage parameter in creep-damage-dominant condition under creep-fatigue loading, 11A653
UENO, K: Finite element model study of head impact based on hybrid III head acceleration: The effects of rotational and translational acceleration, 5A22
- Centrifuge modeling of shield tunnel construction processes (Japanese), 7A711
UENO, S-I: Ultrasound pulse reflection mode measurement of nonlinearity parameter B/A and attenuation coefficient, 10A360
UENO, Y: Prediction of spalling on a ball bearing by applying the discrete wavelet transform to vibration signals, 12A726
UESAKA, M: Accurate probe-response calculation in eddy current NDE by FEM, 9A43
UETANI, K: Sensitivity analysis of bifurcation load of finite-dimensional symmetric systems, 10A642
UEZONO, H: Development of an endless multi-wire diamond saw (Japanese), 1T441
UGAI, K: Application of non-associative hierarchical model for geologic materials for active earth pressure experiment, 1A701
UGATA, T: Simple method of evaluating the failure probability of a structure considering the skewness of distribution, 9A899
UGBEM, PI: Dimensional variations in reinforced-concrete members, 6A744
UGLOV, AN: Maximum drag of a curved plate in flow with a wake, 4A930
UGOLINI, S: Eulerian versus Lagrangian variational principles in stochastic mechanics, 11A65
UHL, B: Compressible potential flow around a helicopter rotor in arbitrary motion, 10A1103
UHLHERR, PHT: Creeping sphere motion in Herschel-Bulkley fluids: Flow field and drag, 2A392
- Yield stress and maximum packing fraction of concentrated suspensions, 5A862
UICKER JR, JJ: Theory of Machines and Mechanisms, Second Edition, 2R10
UIJTTEWAAL, WSJ: Motion of a droplet subjected to linear shear flow including the presence of a plane wall, 4A1010
UJHELYIOVA, A: Carpet fibers from poly-e-caprolactam with improved elastic properties, 6A456
UJITA, Y: Optimization of grinding conditions with genetic algorithms, 3T629
UKADGAONKER, VG: Review of analysis of tube sheets, 10A607
UKAI, T: Polychromatic x-ray method for residual-stress measurements in a subsurface layer, 10A857
- Mathematical expression of 3D configuration of the scoliotic spine, 11A1455
UKHANSKA, O: Plane quasi-stationary thermal problems with convective boundary condition, 6A1176
UL'YANOVA, VI: Lateral flexure of a stretched rectangular plate with elastic contour, 3A530
ULANOVA, N: Modeling of the convective diffusive process with nonlinear sorption in multi-layered aquifer, 1A1358
- Modeling of non-isothermal gas flow through a heterogeneous medium, 8A1166
ULANOVSKII, AE: Comparative study of diffraction fields generated by elastic waves passing through imperfections of various nature, 7A242
ULANOWSKI, MV: Apparatus for measuring the energy of pulse radiation of a laser, 9A860
ULFVARSON, A: Residual stresses at a longitudinal stiffener-web frame intersection and their effects on crack growth, 2A572
ULRICH, TW: BEM for stress reduction by optimal auxiliary holes, 3A531
- Boundary element method-based pattern search solution for a class of inverse elastostatic problems, 9A100
ULSOY, AG: Complex geometry, rotary inertia and gyroscopic moment effects on drill vibrations, 6A571
ULSTEIN, T: Cobblestone effect on surface effect ships, 12A203
UMAR, A: Prediction of error of FE results, 12A28
UMAVATHI, JC: Note on magnetoconvection in a vertical enclosure, 11A1145
UME, C: Laser phased array measurement of simulated solidified weld penetration depth, 11A835
UMEDA, A: Characterization of shock accelerometers using Davies bar and laser interferometer, 2A681
UMEDA, Y: Design methodology for self-maintenance machines, 5A843
- Study on soil water behavior during unsaturated sandy ground freezing and thawing under closed system (Japanese), 7T699
UMEHARA, H: Search for collision orbits in the free-fall three-body problem - I: Numerical procedure, 7A308
UMEHARA, N: Magnetic fluid grinding of HIP-Si_3N-4 rollers, 10A995
UMEK, A: Integral equations for wave diffraction problems, 10A264
UMEMURA, S-I: Particle separation using acoustic radiation force and electrostatic force, 9A352
UMEYAMA, Y: Sectional area for calculation of deformation in screw thread (Japanese), 3A430
UMEZAKI, E: Fatigue crack-tip deformation, crack growth and life prediction in polycarbonate, 2A566
UMHAUER, H: Determination of the fractional efficiencies of fibrous filter media by optical in situ measurements, 9A1132
UNNO, K: Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), 4T644
- Development of wheel spindle for ultra-high speed surface grinding
- 1st Report: Studies on ultra-high speed grinding (Japanese), 11A603
UNAL, C: Issues in CHF modeling - The need for new experiments, 3A1078
- Analysis of bivariate censored low flows, 6T887
UNAL, S: General equation for the design of capillary tubes, 9A1271
UNBEHAUEN, H: Identification of a class of nonlinear continuous-time systems using Hartley modulating functions, 5T303
UNDERHILL, WRC: Large displacement Lagrangian mechanics - Part I: Theory, 8A1
- Large displacement Lagrangian mechanics - Part II: Equilibrium principles, 8A2
UNDERWOOD, JH: Fracture Mechanics, Volume 26, 11N28
- Fatigue life analyses and tests for thick-wall cylinders including effects of overstrain and axial grooves, 5A620
UNE, S: Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, 10A366
UNEDA, M: Study on vibration cutting characteristics using OD-blade (Japanese), 9A712
UNGER, A: Nonlinear analysis using a modal-based reduction technique, 1A153
UNGER, AJA: Variable spatial and temporal weighting schemes for use in multi-phase compositional problems, 4T1362
UNGER, DJ: Analytical Fracture Mechanics, 9R7
UNGER, TH: Laser guidance for repairing gas turbine parts, 5A1034
UNGUREANU, D: Symmetry from shape and shape from symmetry, 2A320
UNJOH, S: Hybrid control of seismic-excited bridge structures, 4A374
- Seismic evaluation method for reinforced concrete bridge piers with inadequate anchoring length at termination of main reinforcements (Japanese), 5T1328
UNNO, K: Development of new ultrasonic dressing equipment (Japanese), 1A735
- Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), 7A1012
- High-precision grinding and turning for optics with 3D profile, 9A713
UNO, K: Exciting test of a floating type cable stayed bridge and its response observation under the typhoon (Japanese), 4A818
UNO, Y: Biomachining of metals using bacteria (Japanese), 4T653
- Fundamental study on electric field assisted biomachining (Japanese), 11A620
UNSWORTH, A: Frictional resistance of new and explanted artificial hip joints, 5A771
- Measurement of wear in retrieved acetabular sockets, 6A1366
- Recent developments in the tribology of artificial joints, 6A841
- Wear of cross-linked polyethylene against itself, 9T771
- Proximal interphalangeal joint dimensions for the design of a surface replacement prosthesis, 12A1491
UOMOTO, T: Relation between phase composition, pore structure, and compressive strength of carbonated mortar, 6T862
UOSUKAINEN, S: Use of the Waterhouse correction, 2A239
UPADHYAY, CS: Model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals, 2A25
- Posteriori estimation and adaptive control of the pollution error in the h-version of the FEM, 5A31
- Computer-based proof of the existence of superconvergence points in the FEM: Superconvergence of the derivatives in FE solutions of Laplace's, Poisson's and the elasticity equations, 9A51
UPADHYAY, PC: Nonaxisymmetric dynamic response of imperfectly bonded buried fluid-filled orthotropic cylindrical shells, 7A174
- Stress field in coated continuous fiber-reinforced polymeric composite due to hygrothermal loading, 12A552
UPADHYAYA, D: Evaluation of the effect of sizing levels on transverse flexural and shear strengths of carbon-epoxy composites, 6A423
UPLEKAR, AG: Effects of mass transfer on transient free convection flow past an infinite vertical isothermal plate, 2A1091
UPTON, NK: Solution of constrained nonlinear equations in modeling the release of liquified gases, 11A1435
URA, M: First- and second-order flux difference splitting schemes for dam-break problem, 6A890
URABE, Y: Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336
URAKAMI, Y: Evaluation of adhesive strength of resin liner film, 10A1038
URANO, T: Study on the size effect of tensile characteristics of carbon fiber-reinforced cement composites, 7A556
URAS, RA: Overview and applications of the reproducing Kernel Particle methods, 9A22
URAYAMA, M: Fault plane solutions of acoustic emission induced by progressive excavations of an underground powerhouse (Japanese), 7T712
URBAN, T: Model investigation of monolithic wall-floor slab joints (Polish), 10A936
URBANCIC, TI: Source parameters of mining-induced seismic events: An evaluation of homogeneous and inhomogeneous faulting models for assessing damage potential, 3A1350
URBANCZYK, M: Optimal conditions for the generation system of a saw gas sensor, 9A348
URBANIK, TJ: Machine direction strength theory of corrugated fiberboard, 11A551
URBANOWSKI, A: New method for the manufacture of cellulose carbamate, 6T370
URBANSKY, R: Torsion of shafts of keyedless joints, 9A1008
URKA, U: Wave scattering by circular arc shaped plates, 4A237
URREGO, OE: Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistory frames, 4A1335
URTIEW, PA: Effect of confinement and thermal cycling on the shock initiation of LX-17, 9A331
- Shock initiation of a heated ammonium perchlorate-based propellant, 9A333
URUSHISAKI, Y: High-speed end milling using a feedforward control architecture, 11A593
URYADNIKOV, VV: Specific features of transformer equipment, 10A443
URZI, DA: Re-engineering the product development cycle and future enhancements of the computer integrated environment, 4A419
USAKOV, VI: Calculation of elastic deformation of the elements of a wave gearing, 10A1031
- Spatial bending of a system of annular elements of the radial chain of a wave gearing, 12A959
USAMI, S: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
USAMI, T: Pseudo-dynamic tests of steel bridge pier models under severe earthquake (Japanese), 1A1389
- Formulation of moment-thrust-curvature relations for locally buckled unstiffened steel box stub-columns (Japanese), 1A643
- Cyclic behavior of structural steels - I: Experiments, 3A1319
- Cyclic behavior of structural steels - II: Theory, 3A1320
- Pseudo-dynamic tests of concrete filled steel columns with prototype details (Japanese), 5A513
- Proposal for check of ultimate earthquake resistance of partially concrete filled steel bridge piers (Japanese), 5A1325
- Cyclic elasto-plastic finite displacement analysis of plates with modified two-surface model (Japanese), 5A500
- Ultimate strength of steel outstands in ccenpression, 10A905
- Evolutionary-degrading hysteretic model for thin-walled steel structures, 11A1412
- Behavior of concrete-filled steel slender columns through pseudo-dynamic tests (Japanese), 11A569
- Inelastic large deflection analysis of structural steel members under cyclic loading, 12A1407
USCHKERAT, U: Radar cross section of the semi-infinite elliptic cone: Numerical evaluation, 4A588
USCINSKI, BJ: High-frequency propagation in shallow water: Rough waveguide problem, 3A257
USENIK, J: Stresses in a circular ring under two forces acting along a diameter, 6A471
USHA, R: Creep flow with concentric permeable spheres in relative motion, 1T994
- Arbitrary squeezing of a viscous fluid between elliptic plates, 11A877
USHA, S: Peristaltic transport of two immiscible viscous fluids in a circular tube, 2A956
USHIJIMA, A: Evaluation of surface using an ultra-microhardness tester to measure depth of concavity - 1st Report: Influence of radius of indenter tip and comparison with the classical method of measuring concavity optically (Japanese), 9A862
USHIJIMA, S: Arbitrary Lagrangian-Eulerian numerical prediction for local scour caused by turbulent flows, 9A1051
- Three-dimensional particle tracking velocimetry with laser-light sheet scannings, 12A1205
USHIO, T: Controlling chaos in a switched arrival system, 5A356
USIKOV, GI: Experimental study of distribution of plastic deformations around the crack Apex under statical loading, 7A821
USMAN, M: Flexure of a fluid-saturated cuboid, 2A1223
USMANI, AS: Finite element solution of incompressible flows using an explicit segregated approach, 6A21
USOLTSEV, AG: Heat transfer in a circulating fluidized bed with secondary air injection, 5A1302
USPENSKY, AA: Rarefied neutral gases with velocities of 8-15 KM-S, 10A1107
USTIMENKO, AB: Mathematical model of the processes of ignition, combustion, and gasification of the pulverized coal fuel in the electric arc devices, 5A1253
USTINOV, AS: Fatigue damage calculation for cyclic and random loading with nonzero mean value, 10T738
USTINOV, MV: Secondary instability modes generated by a Tollmien-Schlichting wave scattering from a bump, 2A971
USTUNDAG, E: Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites, 5A655
USUI, E: Computational machining of titanium alloy: FE modeling and a few results, 11A17
USUI, H: Thixotropy model for coal-water mixtures, 4A909

USUI, Y: Secular changes in accuracy of an adhesive-bonded structure vertical milling machine, 7A485
UTAKA, Y: Measurement of condensation characteristic curves for binary mixture of steam and ethanol vapor, 9A1259
UTHEZA, F: Effects on the injection of droplets on a stationary shock wave in a nozzle (French), 1A1037
- Droplet break-up through an oblique shock wave, 7A282
UTKIN, VI: Tracking the gradient of artificial potential fields: Sliding mode control for mobile robots, 8A355
UTSUGIDA, Y: Parameter identification for steady-state groundwater flow, 4A980
UTSUNOMIYA, T: Wave response analysis of a flexible floating structure by a simple beam model (Japanese), 5A150
- Eigenfunction expansion-matching method for analyzing the wave-induced responses of an elastic floating plate, 11A213
UTYUZHNIKOV, SV: Motion of a body through a large-scale inhomogeneity in a stratified atmosphere, 4A962
- Numerical investigation of thermal and chemical nonequilibrium flows past slender blunted cones, 6A929
UY, B: Local buckling of cold formed steel sheeting in profiled composite beams at service loads, 4A569
- Local buckling of thin steel plates in composite construction: Experimental and theoretical study, 7A661
- Elastic local buckling of steel plates in composite steel-concrete members, 7A659
- Wet concrete loading of profiled trough girders, 9A927
UYEMURA, T: Effect of axial force on holographic measurement of complex elastic modulus, 1A848
UZCATEGUI, O: Two-dimensional migration in transversely isotropic media using explicit operators, 3A1298
UZDALEV, AI: Anisotropic plate under influence of distributed and point heat sources, 5A1186
UZNANSKI, K: Effect of rotary arms on corotating disk flow, 1A997

V

VABISHCHEVICH, PN: Operator-splitting methods for the incompressible Navier-Stokes equations on non-staggered grids - Part 1: First-order schemes, 2A895
- Operator-splitting schemes for the stream function-vorticity formulation, 2A33
VABLE, M: Boundary element analysis of cracks, 8A56
VADALI, SR: Near-optimal 3D rotational maneuvers of spacecraft using manipulator arms, 1T412
- Modeling issues related to retrieval of flexible tethered satellite systems, 3A164
- Suboptimal command generation for control moment gyroscopes and feedback control of spacecraft, 4A302
- Near-minimum-time maneuvers of large structures: Theory and experiments, 4T375
- Robust time-delay control of multimode systems, 5A322
VADASZ, P: Convection and stability in rotating porous layer with alternating direction of the centrifugal body force, 8A1084
- Stability of free convection in a rotating porous layer distant from the axis of rotation, 11A1333
VAFAI, K: Development and investigation of three-phase model of the mushy zone for analysis of porosity formation in solidifying castings, 1A1359
- Optimization analysis of a disk-shaped heat pipe, 6T1152
- Investigation of the heat transfer characteristics of a typical annular combustion chamber of an industrial gas turbine, 7A1252
- Closure statements on the Brinkman-Forchheimer-extended Darcy model, 8A1318
- Analysis of free surface momentum and energy transport in porous media, 8A1110
- Experimental and numerical study of buoyancy-induced flow and heat transfer in an open annular cavity, 10A1256
- Effects of liquid-vapor coupling and non-Darcian transport on asymmetrical disk-shaped heat pipes, 10A1319
- Comparison between the two- and three-phase models for analysis of porosity formation in aluminum-rich castings, 12A1342
VAGANOV, DA: Study of crack appearances in porous media combustion, 3A1267
VAGHAR, MR: Stress analysis of an orthotropic work-hardening cylinder with body force, 3A472
VAHDATI, M: Investigation on the cutting mode and behavior of single crystalline silicon under single point diamond cutting, 3A622
VAIDYA, P: Performance of iterative methods in ANSYS on cray parallel-vector supercomputers, 4A39
VAIDYA, PG: Observations of invariant structures in the chaotic response of Lorenz and other systems, 1A98
VAIDYA, RS: Prediction of composite properties from a representative volume element, 9A550
VAIDYANATHAN, A: Finite element analysis of effective thermal conductivity of filled polymeric composites, 2A17
VAIENTI, S: Statistics of temperature increments in fully developed turbulence - Part II: Experiments, 1A1089
VAILAS, AC: Effect of cross-links on the quarter-staggered molecular structure of fiber-forming collagen: A FE analysis, 1A1452
VAILLANCOURT, C: Simulation and computer-aided kinematic design of three-dof spherical parallel manipulators, 4A859
VAILLANCOURT, H: Validation of a nonlinear 2D interface element for FE analysis, 10A13
VAILLANCOURT, R: Linear stability of Couette flow with rotating inner cylinder and radially nonuniform internal heat sources, 4A1155
- Interaction of phase-shifted fields of two single-turn coils situated above a conducting medium, 9A870
VAINBERG, RS: Influence of heat and mass transfer on the thermomechanical behavior of organic capillary-porous polymers, 10A1352
VAINSHTEIN, P: Effect of centerline particle concentration in a wave tube, 7A1087
VAJRAVELU, K: Fourth-order nonlinear systems arising in combined free and forced convection flow of a second-order fluid, 10A1263
VAJTAI, R: Fractal based surface characterization of laser treated polymer foils, 3A642
VAKAKIS, AF: Nonlinear wave transmission in a monocoupled elastic periodic system, 1A193
- Propagation zones of weakly bonded layered materials, 4T192
VAKALIS, JS: Configuration space of a body moving on a surface and the kinematics of rolling, 12A89
VAL, D: Optimization problem solution in reliability analysis of reinforced concrete structures, 12A844
VALANIS, KC: Concept of physical metric in thermodynamics, 5A1119
- Ill-Posedness of the initial and boundary value problems in non-associative plasticity, 8A418
VALAVANIS, KP: Comparision of AI and DAI based planning techniques for automated manufacturing systems, 1A440
VALCO, MJ: Mathematical model of a time and position variant external load on a gear tooth using the modified Timoshenko beam equation, 12A957
VALDES, J: Coupling of boundary integral and mixed FEMs, 12A52
VALDETTARO, R: Riemannian description of chaotic instability in Hamiltonian dynamics, 5A2
VALDEZ, MA: Influence of temperature on the slip velocity of semidilute xanthan gum solutions, 4A881
VALENCIA, A: Heat transfer enhancement in a channel with a built-in rectangular cylinder, 3A1027
- Influence of heat conduction on determination of heat transfer coefficient by liquid crystal thermography, 8A1119
- Heat transfer enhancement by longitudinal vortices in a fin-tube heat exchanger element with flat tubes, 8T1199
- Unsteady flow and heat transfer in a channel with a built-in tandem of rectangular cylinders, 11A1148
VALENTE, T: Hot pressing of plasma-sprayed SiC fiber-reinforced Ti-6Al-4V alloy, 11A608
VALENTI, G: Linearization procedure for quasi-linear non-homogeneous and non-autonomous 2 × 2 first-order systems, 11A91
VALERY ROY, R: Probabilistic analysis of a nonlinear pendulum, 9A172
VALES, F: Rayleigh wave dispersion due to spatial (FEM) discretization of a thin elastic solid having non-curved boundary, 5A179
- Wave propagation in a thick cylindrical bar due to longitudinal impact, 7A222
VALHMU, WB: Changes in proteoglycan synthesis of chondrocytes in articular cartilage are associated with the time-dependent changes in their mechanical environment, 5A1371
VALID, R: Nonlinear Theory of Shells through Variational Principles: From Elementary Algebra to Differential Geometry, 10R18
VALIDO, AJ: Optimal cross-section and configuration design of cyclic loaded elastic-plastic structures, 8A719
VALIENTE, A: Stress intensity factor evaluation of constructional details for tubular structures, 1A784
- Tensile failure of stainless-steel notched bars under hydrogen charging, 10A747
VALIERE, JC: Time-frequency analysis of a non-uniformly sampled signal with the Wigner-Ville transform: Application to the study of the gyroscopic motion of a projectils, 5A86
VALKO, P: Hydraulic Fracture Mechanics, 7R29
VALKS, PJM: Multichannel impulse responses for outdoor sound propagation, 1A347
VALLABHAN, CVG: Spall damage to concrete walls from close-in cased and uncased explosions in air, 5A613
- New model for the analysis of settlement of drilled piers, 7A706
VALLE, R: Combined effects of the fiber distribution and of the fiber matrix of interphase matrix transverse modulus ratio on the possible fracture modes of unidirectional composites submitted to a transverse loading, 4A720
VALLEE, C: Compatibility equations in shell theory, 10A609
VALLEJO, J: Low frequency vibrations in disc brakes at high car speed - Part II: Mathematical model and simulation, 2A132
VALLES, JL: Misfit dislocations and anisotropic coarsening in superalloys, 3A1181
VALLES, M: Absorption heat pump with the TFE-TEGDME and TFE-H_2O-TEGDME systems, 7A1270
VALLET, I: Implicit computation of 3D compressible Navier-Stokes equations using k-ε closure, 12A1076
- Computation of unsteady 3D transonic nozzle flows using k-ε turbulence closure, 12A1127
VALLIANATOS, F: Galvanic distortion of the MT impedance tensor: Application to Ioannina VAN stations (Greece), 6A1238
VALLIAPPAN, M: Temperature and cure in pultruded composites using multi-step reaction model for resin, 9A724
VALLIAPPAN, S: Fuzzy logic applied to numerical modeling of engineering problems, 2A55
- Analytical solution for 2D dynamic consolidation in frequency domain, 3A571
- Continuum model for dynamic damage evolution of anisotropic brittle materials, 10A808
- Unified theory of flow and deformation in double porous media, 10A1412
VALLINDRAS, M: Use of buried pipes for energy conservation in cooling of agricultural greenhouses, 1A1423
VALLURUPALLI, RK: Influence of articulation damping on the yaw and lateral dynamic response of the vehicle, 3A373
VALO, M: Descriptive characteristics of different types of test for irradiation embrittlement, 3A1361
VALTIERRA, S: Model for thermal fatique in an aluminium casting alloy, 1A759
VAMPOLA, AL: Experimental validation of particle model drift theories, 10A945
VAN ARSDALE, RB: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
VAN ATTA, CW: Multiple-source wind tunnel design for producing turbulent shear flows in a stably stratified fluid, 12A1043
VAN BAVEL, H: Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
VAN BAVEL, PGM: Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, 10A1020
VAN BIESEN, L: Parametric calibration of electroacoustic transducers, 6A707
VAN BOLHUIS, BM: Estimating the contribution of muscles to joint torque based on motor-unit activity, 12A1445
VAN BORSELEN, RG: Removal of surface-related wave phenomena: The marine case, 6A1255
VAN BRUSSEL, H: Design of a cascade controller for a flexible spray boom, 11A322
VAN CAMPEN, DH: Nonlinear parametric identification using chaotic data, 1A372
- Finite deformation theory of hierarchically arranged porous solids - II: Constitutive behavior, 2A1222
- Finite deformation theory of hierarchically arranged porous solids - I: Balance of mass and momentum, 2A1221
- Dynamics of a multi-dof beam system with discontinuous support, 4A120
VAN CAMPEN, DH: Rubin's CMS reduction method for general state-space models, 4A202
VAN CAMPEN, DH: Determination of global stability of steady-state solutions of a beam system with discontinuous support using manifolds, 8A81
VAN CAMPEN, DH: Long-term structural dynamics of mechanical systems with local nonlinearities, 10A121
- Periodic solutions of a multi-dof beam system with impact, 11A110
VAN DAM, CP: Drag prediction at subsonic and transonic speeds using Euler methods, 1A1026
VAN DAM, JW: Stability criterion for Kelvin-Helmholtz mode in a cylindrical plasma, 4A1099
VAN DE FLIERT, BW: Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures, 4A933
VAN DE GEIJN, RA: Massively-parallel computation for acoustical-scattering problems using BEMs, 9A364
VAN DE VEGTE, J: Manipulator control design using a nonparametric method, 2A314
VAN DE VELDE, E: Adaptive stochastic optiics of a multi-dof beam system with discontinuous support, 4A120
- Determination of global stability of steady-state solutions of a beam system with discontinuous support using manifolds, 8A81
VAN DE VORST, ELB: Periodic solutions of a multi-dof beam system with impact, 11A110
VAN DE VOSSE, FN: Approximate projection scheme for incompressible flow using spectral elements, 9A1086
VAN DE WOUW, N: Nonlinear parametric identification using chaotic data, 1A372
VAN DEN ABEELE, KE-A: Inhomogeneous plane-wave scattering and mode simulation on periodic rough surfaces, 10A252
- Elastic pulsed wave propagation in media with second- or higher-order nonlinearity - Part II: Simulation of experimental measurements on Berea sandstone, 12A218
- Elastic pulsed wave propagation in media with second- or higher-order nonlinearity - Part I: Theoretical framework, 12A217
VAN DEN BERG, PM: Removal of surface-related wave phenomena: The marine case, 6A1255
VAN DEN BOGERT, AJ: Computer simulation of landing movement in downhill skiing: Anterior cruciate ligament injuries, 12A1493
- Method for inverse dynamic analysis using accelerometry, 12A1462
- Modeling of force production in skeletal muscle undergoing stretch, 12A1455
VAN DEN BRAEMBUSSCHE, R: Evaluation of an Euler code with non-reflecting boundary conditions for the analysis of 3D flow in compressors, 9A1245
VAN DEN BRULE, BHAA: Brownian Dynamics simulation of reversible polymeric networks, 4A927
VAN DEN ENDE, D: Generalized Rouse model for a dilute solution of clustered polymers, 1A968
- Linear viscoelastic properties of ordered latices, 4A887
- Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869
VAN DEN HURK, BJJM: Fluctuations of the horizontal wind under unstable conditions, 1T1407
VAN DEN KROONENBERG, AJ: Dynamic models for sideways falls from standing height, 5A1369
- Hip impact velocities and body configurations for voluntary falls from standing height, 10A1469
VAN DER BIEST, O: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
VAN DER DRIFT, A: Numerical and experimental study of the no-emission of ceramic foam surface burners, 5A1216
VAN DER GELD, CWM: Mean condensate heat resistance of dropwise condensation with flowing, inert gases, 3A1088
- Heat transfer, condensation, and fog formation in crossflow plastic heat exchangers, 4A1217
VAN DER GELD, CWM: Bubble detachment criteria: Some criticism of "Das Abreissen von Dampfblasen an festen Heizflachen", 4A1190
VAN DER GIESSEN, E: Discrete dislocation plasticity: A simple planar model, 2A404
VAN DER GIESSEN, E: Micromechanics of intergranular creep failure under cyclic loading, 12A768
VAN DER HELM, FCT: Control of shoulder muscles during goal directed movements, an inverse dynamic analysis, 1A1444
VAN DER HELM, FCT: Quasistatic analysis of muscle forces in the shoulder mechanism during wheelchair propulsion, 6A1321
VAN DER HOEVEN, JGT: Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, 7A1130
VAN DER JAGT, P: Road surface correction of tire test data, 7A977
VAN DER MEER, TH: Effects of time scale ratio in turbulent diffusion flames modeling, 10A1377
VAN DER MERWE, DF: Friction factor in sine-pipe flow, 12A1121
VAN DER PERRE, G: Study of the vibrational behavior of a healing tibia using FE modeling, 12A1453
VAN DER PLOEG, FD: Impact of diversity in aircraft noise ratings, 7A353
VAN DER PLOEG, HJ: Helical baffles in shell-and-tube heat exchangers - Part I: Experimental verification, 10A1308
VAN DER SPEK, JAW: Dynamics of a multi-dof beam system with discontinuous support, 4A120
VAN DER VARST, PGT: Bed thickness and particle size distribution in three-body abrasion, 3A833
VAN DER VORST, B: Generalized Rouse model for a dilute solution of clustered polymers, 1A968
- Linear viscoelastic properties of ordered latices, 4A887
VAN DER VORST, HA: Reducing the effect of global communication in GMRES(m) and CG on parallel distributed memory computers, 4A89
VAN DER WAART, FJ: Influence of suspending phase viscosity on the passage of red blood cells through capillary-size micropores, 10A1476
VAN DER WAL, S: Mi: Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model, 8A1412
VAN DIJKE, MJ: Multi-phase flow modeling of air sparging, 4A1339
VAN DOMMELEN, L: Determinate model of thrust-augmenting ejectors, 7A1074
VAN DOOREN, R: Chaos in a pendulum with forced horizontal support motion: A tutorial, 8A78
VAN DOREN, C: Perspectives on the role of afferent signals in control of motor neuroprostheses, 1T1474
VAN DRIEL, WD: Compari 4A1304

VAN DUIJN, CJ: Multi-phase flow modeling of air sparging, 4A1339
VAN DUYL, WA: Analytical solution to solute transport in continuous arterio-venous hemodiafiltration, 6A1344
VAN DYKEN, RD: Analysis of compressible light dynamic stall flow at transitional Reynolds numbers, 12A1169
VAN ERNING, L: Development and validation of a 3D FE model of the pelvic bone, 5A1364
VAN FOSSEN, GJ: Influence of turbulence parameters, Reynolds number, and body shape on stagnation-region heat transfer, 3A1061
VAN GAASBECK, J: Spacecraft autonomous operations experiment performed during the Clementine lunar mission, 5A754
VAN GEMERT, D: Evaluation of electrical resistivity maps for ancient masonry, 10A866
VAN GENUCHTEN, MT: Partitioned solution procedure for simulating water flow in a variably saturated dual-porosity medium, 4T1308
- Exact solutions for 1D transport with asymptotic scale-dependent dispersion, 9A1299
VAN GERWEN, P: Multi-axial strain gage with octagonal shape, 10T466
VAN GIJZEN, MB: Large scale FE computations with GMRES-like methods on a CRAY Y-MP, 6A27
VAN GILDER, JW: Low Rayleigh number conjugate convection in straight inclined fractures in rock, 3A1041
VAN GILS, MAJ: Size effect predictions by fracture models for a refractory ceramic, 10A833
VAN GOOL, L: Symmetry from shape and shape from symmetry, 2A320
VAN GROESEN, E: Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures, 4A933
- Unidirectional waves over slowly-varying bottom - Part II: Quasi-homogeneous approximation of distorting waves, 10A290
VAN HEIJST, GJF: Unsteady behavior of a topography-modulated tripole, 7A1058
- Stable and unstable monopolar vortices in a stratified fluid, 9A1063
- Dynamics of a vortex ring in a rotating fluid, 12A1033
VAN HEMELRIJCK, D: Non Destructive Testing - Proc of 1st Joint Belgian-Hellenic Conf on Non Destructive Testing, Patras, Greece, May 1995, 12N27
VAN HOA, SUONG: Computer-Aided Design of Polymer-Matrix Composite Structures - Mechanical Engineering Series, 99, 7N13
VAN HOUTTE, P: Role of texture development in the forming limits of sheet metals, 12A675
VAN INGEN SCHENAU, GJ: Mechanical output from individual muscles during explosive leg extensions: The role of biarticular muscles, 8A1417
VAN KEER, R: Variational approximation method for a class of elliptic eigenvalue problems in composite structures, 12A34
VAN KEKEN, PE: DASPK: A new high order and adaptive time-intergration technique with applications to mantle convection with strongly temperature-and pressure-dependent rheology, 3A1287
VAN KEULEN, F: Optimization of geometrically nonlinear structures based on a multi-point approximation method and adaptivity, 11A729
VAN KEULEN, F: Shape optimization of thermoformed continuous fiber reinforced thermoplastic products, 12A830
VAN KOOTEN, JJA: Method to solve the advection - Dispersion equation with a kinetic adsorption isotherm, 12A1424
VAN LANINGHAM, HF: Optimal nonlinear estimation of linear stochastic systems: The multivariable extension, 12A330
VAN LEEUWEN, HJ: Upstream pumping of radial lip seals by tangentially deforming, rough seal surfaces, 10A1020
VAN LIPZIG, NPM: Unsteady behavior of a topography-modulated tripole, 7A1058
VAN LOHUIZEN, EP: Implicit surface tension algorithm for Picard solvers of surface-tension-dominated free and moving boundary problems, 10A1078
VAN LUIK, KW: Sonic logging of compressional-wave velocities in a very slow formation, 3A1294
VAN MIER, JGM: Acoustic emission source characterization in concrete under biaxial loading, 3A733
VAN MIER, JGM: Fracture mechanics of concrete: Will applications start to emerge, 6A748
VAN MIER, JGM: Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, 9A795
VAN MIER, JGM: Experimental investigation of concrete fracture under uniaxial compression, 10A842
- Damage evolution in different types of concrete by means of splitting tests, 11A749
VAN NHIEU, MT: Diffraction by the edge of a 3D object, 6A242
VAN NIEKERK, JE: Parametric study of a carbon black oil furnace, 1A1331
VAN NIEKERK, JL: Active control of a circular membrane to reduce transient noise transmission, 5A276
VAN NOOYEN, RRP: Petrov-Galerkin mixed FEM with exponential fitting, 1A35
VAN OORD, J: Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, 7A1130
VAN OOSTVEEN, HJ: Modeling of a controlled pneumatic swing-plug train door, 6A852
VAN OSCH, GJVM: In vitro laxity-testers for knee joints of mice, 10T1465
VAN OUDHEUSDEN, BW: Quasi-steady analysis of one dof galloping with combined translational and rotational effects, 4A125
VAN OUDHEUSDEN, BW: Topological interpretation of the surface flow visualization of conical viscous-inviscid interactions, 12A1107
VAN PHONG, DINH: Principle of compatibility and criteria of ideality in study of a constrained mechanical system, 11A4
VAN PUTTEN, MHPM: Two-dimensional numerical implementation of magnetohydrodynamics in divergence form, 2A1004
VAN RICKSTAL, F: Evaluation of electrical resistivity maps for ancient masonry, 10A866
VAN SCHOOR, MC: Global structure modeling using force-state component identification, 6T280
VAN SICKLE, DE: Pitch analysis of a space module after water landing, 1A254
VAN SOEST, AJ: Influence of the parameters of a human triceps surae muscle model on the isometric torque-angle relationship, 9A1438
VAN STAPPEN, M: Oxidational wear of TiN coatings on tool steel and nitrided tool steel in unlubricated fretting, 3A662
VAN STONE, RH: Hold time crack growth analysis at elevated temperatures, 2A567
- Characterization of elevated temperature crack growth in Hastelloy-X using integral parameters, 5A627
VAN TIGGELEN, PJ: Experimental study of the structure of several fuel-rich premixed flames of methane, oxygen, and argon, 11A1299
VAN TYNE, CJ: Use of multiple flow fields for continuous solutions from upper-bound analysis, 3A604
VAN VELDHUIZEN, M: Flow pattern analysis for a well defined by point sinks, 5A1297
VAN VIET, HOANG: Spatial distribution of gas particles emerging from a nonisothermally heated cylindrical channel with heterogeneous processes on the surface, 6A1110
VAN VLIET, MRA: Experimental investigation of concrete fracture under uniaxial compression, 10A842
VAN WESTENBRUGGE, CJ: Risk of dike failure due to flow slides, 7A1352
VAN WIE, DM: Internal flowfield characteristics of a scramjet inlet at Mach 10, 6A1210
VAN WIMERSMA GREIDANUS, B: Application of FE techniques in the displacement compatibility method, 2A8
VAN WINGERDE, AM: New guidelines for fatigue design of HSS connections, 7A926
VAN ZANTE, DE: Improved aspirating probe for total-temperature and total-pressure measurements in compressor flows, 5A1082
VAN, K DANG: Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, 12A723
VANCE, JM: Theoretical and experimental investigation of a gas-operated bearing damper for turbomachinery - Part I: Theoretical model and predictions, 5A1289
- Gas-operated bearing damper for turbomachinery - theoretical predictions versus experimental measurements - Part II: Experimental results and comparison with theory, 5A1280
- Using Pade approximants and curve-fitting to approximate eigenvalues and eigenvectors for large design changes, 8A39
- Mesh reduction using an angle criterion approach, 12A972
VANCE, VL: Model to incorporate architectural walls in structural analyses, 10A926
VANCZA, J: Process planning with genetic algorithms on results of knowledge-based reasoning, 8A367
VANDEN, KJ: Comparison of numerical and analytical Jacobians, 11A43
VANDEN-BROECK, J-M: Computations of steep gravity waves by a refinement of Davies-Tulin's approximation, 1A229
- New families of steep solitary waves in water of finite depth with constant vorticity, 4A259
- Numerical study of capillary-gravity solitary waves, 8A196
- Influence of a layer of mud on the train of waves generated by a moving pressure distribution, 12A247
VANDENBUSSCHE, E: Experimental study of periacetabular deformations before and after implantation of hip prostheses, 6A1313
VANDER VORST, MJV: Model of blast overpressure injury to the lung, 6A1339
VANDER WAL, RL: Laser-induced incandescence calibration via gravimetric sampling, 11A1300
VANDERBY JR, R: Effect of cross-links on the quarter-staggered molecular structure of fiber-forming collagen: A FE analysis, 1A1452
- Fixation of femoral allograft-prothesis composites after 25%, 50%, and 75% resection, 7T1420
VANDERPLOEG, MJ: Symbolic formulation for linearization of multibody equations of motion, 5A78
VANDERVOORT, AA: Development of a home ankle exerciser, 11A1473
VANDEURSEN, JM: Internal model control with improved disturbance rejection, 2T280
VANDEUSEN, G: Effect of dilution air on the scalar flowfield at combustor sector exit, 4A1256
VANDEWALLE, L: Current concrete strength tests suitable for high strength concrete, 2A409
VANDEWALLE, N: Growth models with internal competition, 9A11
VANDEWALLE, S: Multigrid waveform relaxation on spatial FE meshes: The continuous-time case, 10A19
VANDEWEGE, J: Fiber-ribbon positioning device, 6T348
VANDIVER, JK: Wave propagation in strings with rigid bodies, 5A132
VANDOOREN, J: Experimental study of the structure of several fuel-rich premixed flames of methane, oxygen, and argon, 11A1299
VANEATON, A: Seismic behavior of older steel structures, 10A1432
VANGELOV, VI: Effects of curvature, aspect ratio and plan form in 2D and 3D spherical models of thermal convection, 3T1036
VANGSNESS, MD: Study of flame stability in a step swirl combustor, 10A1365
VANHERCK, P: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
VANIN, GA: Gradient theory of shear for multilevel composites, 3A482
- Gradient theory of shear for composites with cracks, 7A833
VANKA, SP: Convective heat transfer in periodic wavy passages, 2A1084
- Simulations of the unsteady separated flow past a normal flat plate, 2A951
- Multigrid calculation of steady, viscous flow in a triangular cavity, 3A956
VANMAELE, M: External FEM for a second-order eigenvalue problem on a concave 2D-domain with Dirichlet boundary conditions, 1T47
- Combined effect of numerical integration and approximation of the boundary in the FEM for eigenvalue problems, 1T27
- Interpolation theorem for narrow quadrilateral isoparametric FEs, 4T7
- Variational approximation method for a class of elliptic eigenvalue problems in composite structures, 12A34
VANNINI, M: Diagnostic set-up for time-resolved imaging of laser-induced ablation, 10T720
VANSICKLE, DP: Power wheelchair range testing and energy consumption during fatigue testing, 4A1373
VANTOMME, J: Determination and parametric study of material damping in fiber reinforced plastics: A review, 6A148
VANTORRE, M: Vertical wave excitation for bodies in revolution, 12A1022
VANTSYAN, AA: Penetration of a thin, sharp-pointed rigid indentor into a transversally isotropic medium, 7T528
VARADAN, TK: Large amplitude vibrations of circular cylindrical shells, 10A186
- Nonlinear dynamic instability of laminated composite plates using FEM, 11A554
VARADAN, VK: Finite element-optimization methods for the active control of radiated sound from a plate structure, 7A351
- Finite-element modeling of a smart cantilever plate with comparison with experiments, 11A10
VARADAN, VV: Active control of sound transmission through a plate using a piezoelectric actuator and sensor, 7A347
- Finite element-optimization methods for the active control of radiated sound from a plate structure, 7A351
- Finite-element modeling of a smart cantilever plate with comparison with experiments, 11A10
VARADARAJAN, ST: Radar signal interpretation using neural network for defect detection in concrete, 8A344
VARADE, A: Experimental results on bulk waves and Rayleigh waves in slate, 6A187
VARADI, S: Singularly weighted symplectic forms and applications to asteroid motion, 1A281
VARALLO, G: Fluid handling system for a chemical microanalyzer, 10T458
VARDAR, O: Periodic tensile overloads in 2024-T3 Al-alloy, 5A599
VARDOULAKIS, I: Hydro-mechanical aspects of the sand production problem, 9A1369
VAREJAO, LMC: Heat islands influence on the Dispersion of Contaminants by the atmosphere, 7A1387
VARGAFTIK, NB: Handbook of Physical Properties of Liquids and Gases, Augmented and Revised Edition, 10N46
VARGAS, JVC: Optimization of pulsating heaters in forced convection, 1A1170
- Optimal allocation of a heat-exchanger inventory in heat driven refrigerators, 1A1154
- Initial values searching method for solving non-similar boundary layer problems by the local non-similarity model, 7A1099
- Thermodynamic optimization of solar-driven refrigerators, 11A1430
VARGAS, PM: Inelastic response of a deep crack single-edge notch specimen under impact loading, 5A630
VARGHESE, PL: Dissociative cooling: Effect on stagnation heat transfer of gas mixture injection, 5A719
- Tunable diode laser measurements on nitric oxide in a hypersonic wind tunnel, 8A1054
- Numerical simulation of the blast-wave accelerator, 12A254
VARLAMOV, V: Existence and uniqueness of a solution to the Cauchy problem for the damped Boussinesq equation, 10A287
VARLIK, C: Total heat transfer coefficients for canned foods during sterilization, 4A1204
VARMA, A: Mechanism of structure formation during combustion synthesis of titanium silicides, 7A1333
VARMA, H: Strain in the medial collateral ligament of the human knee under single and combined loads, 6A1318
VARMA-NAIR, M: Non-isothermal heat capacities and chemical reactions using a modulated DSC, 11A1090
VAROL, HS: Hybrid high efficiency single-basin solar still, 12A1430
VARONE, T: Cooperative neural field for the path planning of a robot arm, 7A454
VARONOS, A: Design method for stator cascades with stream surface of revolution using natural coordinates, 8A958
VAROTO, PS: Mismatching windows can cause frequency response function notches to appear as peaks, 12A194
VARPASUO, P: Seismic reliability of VVER-1000 NPP prestressed containment building, 9A1389
- Seismic probabilistic safety analysis of unit 1 of the Loviisa nuclear power plant, 9A1387
VARYUKHIN, VN: Mathematical model of solid phase extrusion for polymer composite materials (Russian), 8A548
VAS, M: Image processing system for measuring geometrical properties of fibers and yarns, 6T590
VASANOVA, LK: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303
VASCO, C: Structure of the vortices in freely-decaying 2D turbulence, 11A1000
VASCO, DW: Beyond ray tomography: Wavepaths and Fresnel volumes, 3A1285
VASCONCELOS, GL: Time-evolving bubbles in 2D Stokes flow, 4A1014
VASHISHTA, P: Materials Theory, Simulations, and Parallel Algorithms, Volume 408, 11N32
VASIL'EV, DB: Comparative analysis of calculated fatigue curves of an aluminum-alloy product, carried out using various statistical theories of strength, 10A727
VASIL'EV, VN: Control of a multiunit power gyro system with minimal redundancy, 6A92
VASIL'EV, VV: Discussion on classical plate theory, 7T605
VASIL'YEV, VB: Integral equation for a problem of a wedge-shaped punch, 2A374
VASILE, MJ: Development of the micromilling process for high-aspect-ratio microstructures, 11A616
VASILENKO, AN: Deformation of thin shallow inhomogeneous shells (Russian), 7A618
VASILENKO, AT: Nonsymmetrical temperature fields and strength in cylinders of nonhomogeneous composites (Russian), 2A1157
- Stressed state of anisotropic structure-inhomogeneous cylindrical bodies, 7A512
VASILEVA, DP: Lumped-mass FEM with interpolation of the nonlinear coefficients for a quasilinear heat transfer equation, 1A1342
VASILEVKO, AT: Asymmetrical strain of orthotropic shells of revolution of nonlinear elastic base, 9A590
VASILIEV, LL: Heat Pipe Technology - Proc of 7th Int Heat Pipe Conf, Minsk, 9N27
VASILIEV, VI: Self-similar viscous incompressible flow along an unbounded corner, 10A1129
VASILIEV, VV: Biharmonic Problem in the Theory of Elasticity, 8R7
VASILIEVA, LT: Effect of flow swirling and porous coating on critical heat flux in a horizontal tube with nonuniform heating, 1A1236
VASILYEV, OV: Stability of unstably stratified shear flow in a channel under non-Boussinesq conditions, 3A963
VASIN, RA: Materials with a falling diagram, 5T432
VASNEV, VA: Effect of copolyester microstructure on friction of graphite-filled composites, 6A812
VASS, A: Fractal based surface characterization of laser treated polymer foils, 3A642
VASSALOS, D: Dynamics of small-sagged taut-slack marine cables, 4A163

VASSENEV, LG: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
VASSEUR, P: Convective heat transfer in an annular fluid layer with centrifugal force field, 1A1207
- Natural convection and conduction in massive wall solar collectors with honeycomb and without vents, 3A1370
- Natural convection heat transfer in a rectangular enclosure with a transverse magnetic field, 3A1042
- Double-diffusive convection in an inclined slot filled with porous medium, 4A1243
- Effects of a moving thermal wave on Benard convection in a horizontal saturated porous layer, 4A1169
- Effect of an electromagnetic field on natural convection in an inclined porous layer, 8A1111
- Effect of an external magnetic field on buoyancy-driven flow in a shallow porous cavity, 11A1151
VASSILEV, VM: Conservation laws and group-invariant solutions of the von Karman equations, 8A112
VASSILEVSKI, PS: Least-squares mixed FEM for non-selfadjoint elliptic problems - Part I: Error estimates, 7A8
- Finite volume methods for convection-diffusion problems, 7A1301
- Interior penalty preconditioners for mixed FE approximations of elliptic problems, 9A60
VASUDEVA MURTHY, AS: Energy balance in the Ramdas layer, 8A1365
VASUDEVAN , S: Development of new spatially curved frame FE for crash analysis - Part I: Formulation and validation, 5A192
VATANI, A: Elucidation of pressure drop in packed-bed systems, 6A1221
VATISTAS, GH: Radial inflow between two flat disks, 5A880
VATUL'YAN, AO: Efficient approach to constructing discontinuous solutions of mechanical problems for bodies of finite size, 10A517
VAUCLIN, M: Note on the soil-water conductivity of a fractal soil, 10T1410
VAUGHAN, CL: Abduction-adduction moments at the knee during stair ascent and descent, 6A1322
VAUGHAN, JG: Manufacturing model for 3D irregular pultruded graphite-epoxy composites, 7A563
- Temperature and cure in pultruded composites using multi-step reaction model for resin, 9A724
- Thermal model for 3D irregular shaped pultruded fiberglass composites, 11A1252
VAUGHAN, ND: Discrete-time system identification for electrohydraulic servo systems, 2A242
- Modeling and simulation of a proportional solenoid valve, 9A437
- Robust adaptive control for hydraulic servosystems, 12A337
VAUGHAN, PR: Fast shearing of pre-existing shear zones in soil, 12A651
VAUGHT, DM: Updating the ANSI Standard on measurement of exhaust emissions, 5A1039
VAUTARD, R: Extending the limits of variational assimilation in nonlinear chaotic systems, 8T82
VAUTRIN, A: 10° off-axis tensile test: A critical approach, 11A493
VAVASIS, SA: Stable FEs for problems with wild coefficients, 12A31
VAVILOV, V: Surface transient temperature inversion for hidden corrosion characterization: Theory and applications, 4A1202
VAVRINCOVA, M: Numerical solution of 2D steady and unsteady system of Euler and Navier-Stokes equations, 2T894
VAVRYCUK, V: SH-wave Green tensor for homogeneous transversely isotropic media by higher-order approximations in asymptotic ray theory, 10A246
VAYAS, I: Design of steel frames with slender joint-panels, 1A649
VAYNER, BV: Low-frequency waves in the plasma environment around the shuttle, 10A949
VAZ, LE: FE-shape sensitivity of elastoplastic response, 6A716
VAZ, MA: Analysis of drill strings in vertical and deviated holes using the Galerkin technique, 2A98
- Transient behavior of towed marine cables in two dimensions, 7A975
- Transient behavior of marine cables being laid: The 2D problem, 9A959
VAZE, SP: Buckling of elastic-plastic square tubes under bending, 9A640
VAZIRI, HH: Simple numerical model for analysis of propped embedded retaining walls, 10A689
VAZQUEZ, C: Numerical computation of free boundary problems in elastohydrodynamic lubrication, 7A1187
- Existence of solutions for elastohydrodynamic piezoviscous lubrication problems with a new model of cavitation, 8A1041
VAZQUEZ, JL: Persistence of corners in free boundaries in Hele-Shaw flow, 4A941
VAZQUEZ, L: Numerical simulation of nonlinear schrodinger systems: A new conservative scheme, 1A236
VAZQUEZ-POLO, G: Elastic properties of polymer systems reinforced with short organic fibers, 12A542
VEAU, JL: Heat transfer modeling in a polymer sample located in a microwave field - II: Transient state, 3A1107
VECCHIO, FJ: General shear design method, 7A953
- Analysis of reinforced concrete members subject to shear and axial compression, 11A744
VECCHIO, KS: Dynamic Bauschinger effect, 12A521
VEDAN, MJ: Inverse scattering transform analysis of KdV-Burgers' equation, 5A198
VEDAVARZ, A: Experimental evidence of hyperbolic heat conduction in processed meat, 3A1104
VEDHA-NAYAGAM, M: Diffusion flame over a continuous moving fuel plate under microgravity, 6A1206
VEEGER, HEJ: Quasistatic analysis of muscle forces in the shoulder mechanism during wheelchair propulsion, 6A1321
VEGA, IM: Nonlinear fatigue damage model for concrete in tension, 4A744
VEICSTEINAS, A: Surface mechanomyogram reflects muscle fibers twitches summation, 8T1442
VEILLON, F: Relative 3D reconstruction using multiple uncalibrated images, 4A773
VEITCH, B: Predictions of ice contact forces on a marine screw propeller during the propeller-ice cutting process, 7A1152
VEKSLER, ND: Modal resonances of the Franz waves, 9A365
VELASCO FUENTES, OU: Unsteady behavior of a topography-modulated tripole, 7A1058
VELASCO, E: Model for thermal fatique in an aluminium casting alloy, 1A759
VELAZQUEZ, JJL: Singularity formation in the 1D supercooled Stefan problem, 11A1200
VELDHUIS, LLM: Optimzation of tractor propeller-wing configurations, 2A1030
VELDMAN, AEP: Direct numerical simulation of turbulence on a Connection Machine CM-5, 6A1000
VELETSOS, AS: Dynamic modeling and response of rigid embedded cylinders, 1A702
- Dynamic response of a pair of walls retaining a viscoelastic solid, 5A1318
VELEX, P: Dynamic response of planetary trains to mesh parametric excitations, 8A806
- Mathematical model for analyzing the influence of shape deviations and mounting errors on gear dynamic behavior, 10A1005
VELIANNIS, I: Large DHW solar systems with distributed storage tanks, 3A1376
VELICKOVIC, D: Analysis of linear systems with semi-rigid connections, 11T784
VELUSAMY, K: Laminar mixed convection in vertical elliptic ducts, 5A1134
VENERUS, DC: Comparison of optical and mechanical measurements of second normal stress difference relaxation following step strain, 1A959
VENIALI, F: Experimental study on grinding of silicon carbide reinforced aluminum alloys, 10A715
VENINGER, A: Development of an aviation fuel thermal stability test unit, 5A1243
VENKAT, C: Finite element formulation of a flexible slider crank mechanism using local coordinates, 5A10
VENKATA RAO, G: Numerical simulation of welding and quenching processes using transient thermal and thermo-elastoplastic formulations, 11A837
VENKATA REDDY, N: Die design for axisymmetric extrusion, 7A719
VENKATACHALAPPA, M: Combined surface tension and buoyancy-driven convection in a rectangular open cavity in the presence of a magnetic field, 5A1163
VENKATAKRISHNAIAH, S: Analysis of an axisymmetric matrix crack with interfacial debond, 4A717
VENKATAKRISHNAN, V: Perspective on unstructured grid-flow solvers, 8T28
VENKATAPATHY, E: Three-dimensional computational analysis of complex launch vehicle configurations, 7A991
VENKATARAMAN, B: Sliding wear behavior of Al-SiC particulate composites - Part I: Macrobehavior, 6A803
- Sliding wear behavior of Al-SiC particulate composites - II: The characterization of subsurface deformation and correlation with wear behavior, 6A804
VENKATARAMAN, M: Eulerian bond graphs for fluid continuum dynamics modeling, 9A402
VENKATARAMAN, N: Low velocity impact fatigue studies on glass epoxy composite laminates with varied material and test parameters: Effect of incident energy and fiber volume fraction, 4A524
VENKATASUBRAMANYAM, G: Russian RD-704 for single-stage vehicles, 10T951
VENKATESAN, K: Evaluation of metallic coatings for erosive wear resistance in die casting applications, 10A994
VENKATESH, A: Accurate representation of local effects due to concentrated and discontinuous loads in hybrid-Trefftz plate bending elements, 2A479
VENKATESH, CV: Application of multi dimensional cluster analysis in identification of defects in fiber composites, 2A696
VENKATESH, DN: Hexahedral elements using PN functions: Applications to beams, 11A505
- Plate bending with hexahedral PN elements, 12A592
VENKATESHA, KS: Generalized modified crack closure integral and its application to interface crack problems, 12A777
VENKATESHAN, SP: Experimental study of free convection and radiation in horizontal fin arrays, 5A1174
- Natural convection in L corners with surface radiation and conduction, 8T1184
- Numerical analysis of a cavity radiator with mutual interaction, 11A1218
VENKATESWARA RAO, G: Stability behavior of uniform columns on a class of two parameter elastic foundation, 1A647
- Thermal post-buckling of linearly tapered moderately thick isotropic circular plates, 4A576
- Effect of localized axisymmetric damages on the buckling of circular plates, 4A573
- Free vibration and stability behavior of uniform beams and columns on nonlinear elastic foundation, 5A147
- Asymmetric buckling of layered orthotropic circular and annular plates of varying thickness using a computationally economic semianalytical FE approach, 7A657
- Discussion on simple third-order theories and elasticity approaches for flexure of laminated plates, 8A485
- Finite element free vibration analysis of a thermally stressed spinning plate, 8A128
- Thermal buckling of circular plates with localized axisymmetric damages, 12A1276
- Post-buckling of moderately thick elliptical plates, 12A612
VENKAYYA, VB: Mode tracking issues in structural optimization, 3A759
- Simple FE formulation for a laminated composite plate with piezoelectric layers, 7A570
VENSON, AR: Experimental damage investigation of a SiC-Ti aluminide metal matrix composite, 4A729
- Experimental determination of damage parameters in uniaxially-loaded metal-matrix composites using the overall approach, 5A642
VENTER, LM: L_∞-approximation method for the numerical solution of singular integral equations, 1T74
VENTURINI, P: Numerical analysis and design implications of the seismic behavior of one-story steel bracing systems, 6A1282
VENTURINI, WS: Dual reciprocity BEM for nonlinear problems, 6A39
- Simple comparison between two 3D time domain elastodynamic BE formulations, 11A61
VENUVINOD, PK: Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part I: Single edge oblique cutting, 5A573ic BE formulations, 11A61
VENUVINOD, PK: Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part I: Single edge oblique cutting, 5A573
- Three-dimensional cutting force analysis based on the lower boundary of the shear zone - Part 2: Two edge oblique cutting, 5A574
VENZI, S: Tearing modulus, J-integral, CTOA and crack profile shape obtained from the load-displacement curve only, 6A653
VERBEEK, G: Nonlinear parametric identification using chaotic data, 1A372
VERBEKE, J: Rheotens-mastercurves and elongational viscosity of polymer melts, 10A1050
VERBIST, A: CMOS foundry-based micromachining, 10T452
- Multi-axial strain gage with octagonal shape, 10T466
VERBIST, GLMM: Self-consistent analysis of elastic wave propagation in 2D matrix-inclusion composites, 2A158
VERBITSKY, VG: Movement stability of transport vehicles with regard for vibrations of control wheel module (Russian), 7A96
- Bifurcation sets and catastrophes in multi-formities of stationary states of pneumowheel machines under constant force effects (Russian), 7T102
VERCELLI, G: Achieving dextrous grasping by integrating planning and vision-based sensing, 2A292
VERDE, L: Design and robustness analysis of gain-scheduled control system for parabolic flight, 8A1012
VERDEJO, BD: Stress-strain properties of coir fiber reinforced cement composite in axial compression, 1A547
VERDI, C: $P^1 - P^0$ FEM for a model of polymer crystallization, 1A40
VEREECKEN, H: Considerations about the effective macrodispersion coefficient, 11A1269
VERETENENKO, SV: Influence of solar cosmic ray bursts on the temperature of the high-latitudinal atmosphere, 9A1403
- Effects of the galactic cosmic ray variations on the cloudiness state, 9A1402
VERFURTH, R: Analysis of a streamline diffusion FEM for the Stokes and Navier-Stokes equations, 7A1066
VERGNES, B: Influence of amylose content on the viscous behavior of low hydrated molten starches, 11A855
- Experimental study and modeling of oscillating flow of high density polyethylenes, 11A851
VERHOEVEN, JD: Sliding wear behavior of deformation-processed cu-15vol%Cr in situ composites, 12A911
VERIJENKO, V: Optimization of symmetric laminates for maximum buckling load including the effects of bending-twisting coupling, 3A562
VERIJENKO, VE: Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, 11A728
- Design of shear-deformable laminated shells for maximum buckling load under combined loading, 11A720
VERKHOLANTSEV, IV: Mechanical quasi-equilibrium and thermovibrational convective instability in an inclined fluid layer, 8A1086
VERKLEY, WTM: Series solution of the nonlinear wind-driven ocean circulation and its inertial limit, 1A1405
VERMA, AP: Effect of resin modification on friction and wear of glass phenolic composites, 12A882
VERMA, GN: Three-dimensional oscillatory flow through a porous medium with periodic permeability, 1A1361
- Heat transfer in a 3D flow through a porous medium with periodic permeability, 6T1225
VERMA, SB: Supersonic separation with obstructions, 9T1137
VERMANT, J: Origin of nonlinearities in the Bagley plots of thermotropic copolyesters, 8A870
VERMEER, PA: Angles of friction and dilatancy of sand, 9T658
VERMEIR, G: Structure-born sound transmission between thin orthotropic plates: Analytical solutions, 9A343
VERMESSE, J: Storage of gases at room temperature by adsorption at high pressure, 8A1397
VERMEULEN, JA: Flow distortions at the fan inlet of forced-draught air-cooled heat exchangers, 12A1257
VERNON III, FL: Site effect observations from broadband arrays, 6A1269
VERPOEST, I: Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, 1A816
- Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, 1A815
VERRI, G: Advanced Methods for Groundwater Pollution Control - Proc of Int Symp at CISM, Udine, Italy, May 1994, 11N46
VERRUIJT, A: Computational Geomechanics - Theory and Applications of Transport in Porous Media Series, Vol 7, 8R34
VERSCHOORE, R: Dynamic characteristics of on road and off road 4WD vehicles, 6A776
VERSPUI, MA: Bed thickness and particle size distribution in three-body abrasion, 3A833
VERSTAPPEN, RWCP: Direct numerical simulation of turbulence on a Connection Machine CM-5, 6A1000
VERVISCH, L: Two-dimensional weak shock-vertex interaction in a mixing zone, 3A1220
VERVUURT, A: Tensile cracking in concrete and sandstone - Part 2: Effect of boundary rotations, 9A795
- Damage evolution in different types of concrete by means of splitting tests, 11A749
VERZICCO, R: Steady columnar vortices under local compression, 2A869
- Finite-difference scheme for 3D incompressible flows in cylindrical coordinates, 7A1069
- Numerical simulations of transitional axisymmetric coaxial jets, 9A1135
- Wall and vortex-ring interactions, 12A1111
- Dynamics of a vortex ring in a rotating fluid, 12A1033
VESELY, J: Vibration analysis of cylindrical shells in contact with an annular fluid region, 4A289
- Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement, 12A263
VESKOVIC, M: Instability of equilibrium of non-holonomic systems with a non-analytic potential, 12A101
VESSELLA, S: Stability in crack determination from electrostatic measurements at the boundary: A numerical investigation, 3A716
VEST, MS: Unsteady aerodynamic model of flapping wings, 12A1167
VESTERGAARD, R: Analysis of Berkovich indentation, 3A431
VESTRONI, F: Damage evaluation in cracked vibrating beams using experimental frequencies and FE models, 6A122
- Bifurcations and stability of amplitude modulated planar oscillations of an orbiting string with internal resonances, 7A148
VETTEGREN, VI: Description of the mechanical relaxation of highly oriented polymers based on their relaxation spectra (Russian), 7A520

VEYSOGLU, ME: Acoustic time-domain reflectometry for irregular surface recognition, 6A241
VEZİROGLU, TN: Energy and Environment - Proc of Int Conf on Energy and the Environment, 1995, 9N30
VIADERO, F: Applications of dynamic measurements to structural reliability updating, 9A900
VIALARD, S: Balancing of rotating machines by influence coefficients with the help of numerical models (French), 7T177
- Rotating machines determination of influence coefficients from modal characteristics (French), 7A178
VIALLIER-RAYNARD, P: Tribological investigation of textile fabrics, 12A899
VIANNA DO RIO, SA: Space-frequency data compression method for spatially dense laser Doppler vibrometer measurements, 7A885
VIANOU, A: Sizing procedure for photovoltaic refrigerating systems using a simple approach of the LLP calculation, 11A1235
VIARGUES, G: Invariant imbedding and parallelism in dynamic programming for feedback control, 3A323
VIAZZO, S: Hermitian-Fourier numerical method for solving the incompressible Navier-Stokes equations, 1A1007
VICECONTI, M: Mechanical validation of whole bone composite femur models, 8A1410
- Discussion on the design of a hip joint simulator, 10A1464
VICENTE, L: Discrete linear bilevel programming problem, 12T348
VICHNEVETSKY, R: Selected keynote papers presented at 14th IMACS World Congress Atlanta, NJ, July 1994, 12A37
VICKERS, GW: Experimental and computational assessment of windage losses in rotating machinery, 9A1239
- Reverse engineering physical models employing wrap-around B-spline surfaces and quadrics, 10A508
VICKERY, BJ: Pressure correlations on a rough cone in turbulent shear flow, 4A1077
VICKERY, J: Upper-bound analysis of a forging-extrusion process, 7A724
VICKERY, PJ: Prediction of hurricane wind speeds in the US, 3A1380
- Wind-field and filling models for hurricane wind-speed predictions, 3A1382
VICKRIDGE, IG: FAOFERRS: A computer program for the analysis of ferrocement in flexure, 8A748
VICTORY JR, HD: Numerical analysis of random particle methods applied to Vlasov-Poisson-Fokker-Planck kinetic equations, 7A1148
- Mathematical analysis of Zienkiewicz-Zhu's derivative patch recovery technique, 12A19
VIDAL, D: Storage of gases at room temperature by adsorption at high pressure, 8A1397
VIDALE, JE: Low-velocity fault-zone guided waves: Numerical investigations of trapping efficiency, 11A1343
VIEHRIG, H-W: Influence of the depth position on the neutron embrittlement of the VVER reactor pressure vessel steel 15Cr2Mo V(A) consequences for the assessment of reactor safety, 4A1351
VIEIRA PORTO, AJ: Model of brittle materials single point machining with high removal rates, 10A713
VIEIRA, I: Block 6(5) and 7(6) explicit Runge-Kutta formulae, 2A34
VIEIRA, WM: Study of chaos in Hamiltonian systems via convergent normal forms, 7A116
VIENS, M: Behavior of extensional modes in a thin rod immersed in a viscous medium, 7A286
VIERA, F: Linearized evaporation from a soil of finite depth near a wetted region, 7A1237
VIGAK, VM: Optimal control of 2D nonaxisymmetrical temperature field in a cylinder under restrictions for thermoelastic stresses (Russian), 7A1281
VIGDERGAUZ, S: Effective method for computing the elastic field in a finite cracked disk, 8A382
VIHAK, VM: Solution of the thermoelastic problem for a cylinder in the case of a 2D nonaxisymmetric temperature field, 8A1225
VIKARI-JUNTURA, E: Static shoulder model based on a time-dependent criterion for load sharing between synergistic muscles, 8A1414
VIJAYAKAR, SM: Method of images for the harmonic response of beams and rectangular plates, 2A94
VIJAYAN, S: Introduction to the dual frequency fixed delayed resonator, 7A914
VIJAYASEKARAN, S: Use of Fourier transform infrared spectrometry for monitoring the retention of polymers in the vitreous humor, 3A1416
VIJGEN, PMHW: Drag prediction at subsonic and transonic speeds using Euler methods, 1A1026
VIKSTROM , B: Performance of a finite volume CEM code on multicomputers, 4A53
VIL'KE, VG: Rolling of a rigid wheel along a deformable rail, 4A438
VILA, J: Role of negative statements on the subjective effects of traffic noise, 6A255
VILJOEN, A: Failure analysis and life prediction of a large, complex plate fin heat exchanger, 9A762
VILLA, A: Nonlinear Finite Element Techniques Using an Object-Oriented Code, 11N8
VILLAGGIO, P: Pillar of best efficiency, 11A543
- Rebound of an elastic sphere against a rigid wall, 12A237
VILLAMIZAR, V: Response of a viscous incompressible fluid cylinder to an incident plane compressional elastic wave, 9A313
VILLANI, S: Ring axially magnetized passive radial magnetic bearing, 9A1005
VILLARD, P: Modeling of interface problems by the FEM with considerable displacements, 12A643
VILLARREAL, F: Beam delivery characteristics of optical fibers for carbon monoxide lasers, 2A562
VILLAVERDE, R: Simplified response-spectrum seismic analysis of nonlinear structures, 8A1350
- Seismic reliability of electrical power transmission systems, 9A1388
VILLONE, B: Large-scale Kolmogorov flow on the beta-plane and resonant wave interactions, 11A979
VILSMEIER, R: Adaptive solutions for unsteady laminar flows on unstructured grids, 6A899
VIMAWALA, MS: Computational procedures for topological shape design, 1A867
VIMONSATIT, V: Nonlinear analysis of semirigid frames: A parametric complementarity approach, 6A772
VINALS, J: Statistical saturation of buoyant flow induced by a fluctuating acceleration, 10A1259
VINAYAK, H: Linear dynamic analysis of multimesh transmissions containing external, rigid gears, 1A942
- Eigensolutions of annular-like elastic disks with intentionally removed or added material, 11A126
VINAYAK, RU: Beam elements based on a higher order theory - I: Formulation and analysis of performance, 4A544
- Beam elements based on a higher order theory - II: Boundary layer sensitivity and stress oscillations, 4A545
- Best-fit stress performance of a higher-order beam element, 10A601
VINBERG, AA: Mathematical model of transfer of momentum and heat in disperse turbulent jet flows, 5A1164
VINCENT, B: Cavitation in dynamically loaded journal bearings using mobility method, 12A1189
VINCENT, C: ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, 9A530
VINCENT, H: ESCA characterization of boron and silicon carbide mixed layers deposited on HR and HM carbon fibers by RCVD: Properties of the as-coated fibers, 9A530
VINCENT, HH: Analytical solution to solute transport in continuous arterio-venous hemodiafiltration, 6A1344
VINCENT, L: Theoretical analysis of fatigue cracking under dry friction for fretting loading conditions, 12A723
VINCENT, M: Optimization of the extrusion process for glass-fiber-reinforced tubes, 2A535
VINCENT, TL: Minimizing interceptor size using neural networks for terminal guidance law synthesis, 11T312
VINCITORE, AM: Micro-structures of premixed hydrocarbon flames: Methane, 5A1228
VINCKIER, I: Relationship between rheology and morphology of model blends in steady shear flow, 12A1010
VINDOY, V: Salhus Bridge (Nordhordland Bridge) in Norway (Swedish), 3A803
VINET, R: Design methodology for a multifunctional hand prosthesis, 6A1372
VINH, NX: Phugoid motion for grazing-entry trajectories at near-circular speeds, 10A327
VINH, VQ: Study on the combustibility of torrefied wood oil-water mixture droplets, 8A1269
VINNAKOTA, S: Toward design office moment-rotation curves for end-plate beam-to-column connections, 1A953
VINNICOMBE, GA: Investigation of effects of wave motion on the performance of a falling film absorber, 11A1231
VINOGRADOV, O: Scalar form of dynamic equations for a topologically uniform 3D-chain, 6A83
VINOGRADOV, OG: Extension of a cable in the presence of dry friction, 11A497
- Dry friction losses in axially loaded cables, 11A496
VINOGRADOV, YK: Handbook of Physical Properties of Liquids and Gases, Augmented and Revised Edition, 10N46
VINOKUROVA, TI: Methods for developing synthetic sutures for surgery, 6A1354
VINSON, JR: High Strain Rate Effects on Polymer, Metal and Ceramic Matrix Composites, and Other Advanced Materials, AD-Vol 48 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 7N16
VINTER-JENSEN, L: Impedance planimetric characterization of the distal oesophagus in the Goettingen minipig, 6A1332
VIOLA, R: Geometry free of singularities for fusion duplex components, 11T800
VIOLLEAU, M: Electrochemical analysis of blood cell-substrate interactions under flow conditions, 2T1303
VIONNET, CA: Numerical investigation of the sealing capacity of centrifugal instabilities in shaft seals, 1A998
- Boundary conditions for FE simulations of convective flows with artificial boundaries, 9A1304
VIPULANANDAN, C: Performance of new sandwich tube under axial loading: Experiment, 6A501
- Mechanical properties and water diffusion in polyester polymer concrete, 6A417
- Performance of new sandwich tube under axial loading: Analysis, 6A502
VIRGIN, LN: Comparison of piecewise linear and continuous approximating models, 4T129
- Routes to escape from an energy well, 4A127
- Curve and surface veering for a braced column, 4T149
- Nonlinear behavior of a magnetic bearing system, 5A831
- Fractal behavior of an asymmetric rigid block overturning due to harmonic motion of a tilted foundation, 9A156
- Transient motion and overturning of a rocking block on a seesawing foundation, 9T684
- Nonstationary transition through resonance, 10A111
- Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics, 11A94
- Global convergence characteristics of numerically evaluated Jacobian matrices, 12A127
VIRIEUX, J: Numerical source implementation in a 2D finite difference scheme for wave propagation, 3A1338
VIRK, D: Compressible vortex reconnection, 6A925
VISARION, V: Reduction of the equations system for circular pipe-line shells to a single one integro-differential equation, 11T307
VISBAL, MR: Pitch rate and pitch-axis location effects on vortex breakdown onset, 2A1021
- Compressibility effects on vortex breakdown onset above a 75-degree sweep delta wing, 2A1011
- Origin of computed unsteadiness in the shear layer of delta wings, 2T1036
VISCHER, DL: Energy Dissipators - IAHR Hydraulic Structures Design Manuals 9, 12N40
VISHWANATH, B: Effect of resin modification on friction and wear of glass phenolic composites, 12A882
VISKANTA, R: Quenching phenomena associated with a water wall jet - II: Comparison of experimental and theoretical results for the film boiling region, 4A1193
- Quenching phenomena associated with a water wall jet - I: Transient hydrodynamic and thermal conditions, 4A1192
- Measurements of radiative properties of cellular ceramics at high temperatures, 6A1133
- Local jet impingement boiling heat transfer, 7A1236
- Rewetting temperatures and velocity in a quenching experiment, 8A1154
VISOCKY, P: Modeling heat transfer in chemical microsensors, 10A1274
VISONA, SP: Modeling NO_x release from a single coal particle - I: Formation of NO from volatile nitrogen, 9A1318
VISSCHER, M: Accurate real area of contact measurements on polyurethane, 5T795
VISSER, BM: Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, 1A1335
VISSER, D: Reconstruction of fluid Langmuir monolayers under shear forces, 10T1232
VISSER, J: Particle adhesion and removal: A review, 7A1037
VISSER, JA: Different approach to discretization for the numerical simulation of 3D heat conduction in irregularly shaped materials, 10A1294
VISVANATHAN, C: Surface water pretreatment using floating media filter, 6T1303
VISWANATH, PR: Vortex asymmetry and induced side forces on elliptic cones at high incidence, 2A1023
- Flow management techniques for base and afterbody drag reduction, 6A954
- Viscous drag reduction using riblets on NACA 0012 airfoil to moderate incidence, 9A1140
VISWANATHAN, K: Toward the direct calculation of noise: Fluid-acoustic coupled simulation, 4A309
VITALIANI, R: Silent boundary conditions for wave propagation in saturated porous media, 10A1424
VITANOV, VI: Expert system shell for the selection of metal-cutting parameters, 7A740
VITKIN, D: Visualization of turbulence anisotropy by single exposure speckle photography, 10A1183
VITTORI, G: Nonlinear excitation of synchronous edge waves by a monochromatic wave normally approaching a plane beach, 4A265
- Mass transport under sea waves propagating over a rippled bed, 11A196
VIZ, MJ: Computation of membrane and bending stress intensity factors for thin, cracked plates, 3A681
VIZINTIN, J: Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride, 10A748
VIZZINI, AJ: Stress effects of inhomogeneous expansion-controlled matrices in continuous fiber composites, 4A738
- Interlacing for improved performance of laminates with embedded devices, 11A736
VLACH, B: Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part I: Tensile properties, intergranular fracture strength, and impact tests, 10A1334
- Degradation of mechanical properties of Cr-Mo-V and Cr-Mo-V-W steam turbine rotors after long-term operation at elevated temperatures - Part II: Fracture toughness, correlation of fracture toughness with Charpy V-notch results, 10A1335
VLACHOPOULOS, J: Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302, 5N27
VLACHOS, DG: Interplay of transport, kinetics, and thermal interactions in the stability of premixed hydrogen-air flames near surfaces, 1A1323
- Bifurcation behavior of premixed hydrogen-air mixtures in a continuous stirred tank reactor, 7A1304
VLAD, G: Numerical study of the compressible turbulent flow in a laser cavity, 1A1193
VLADIMIROV, A: Collapsing effects in numerical simulation of a class of chaotic dynamical systems and random mappings with a single attracting center, 2A74
VLADIMIROV, SV: Drift wave instability and anomalous particle transport in collisional plasmas with high-Z dust impurities, 2A997
VLADIMIROVA, TV: Expert system shell for the selection of metal-cutting parameters, 7A740
VLADISAUSKAS, A: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701
VLAIKOV, TG: Study of the stressed state of hollow orthotropic cylinders of nonround cross-section under the effect of local load (Russian), 7A623
VLASOVA, LV: Fatigue-energy model of exhaust valve erosion, 6A879
- Analysis of the reliability of internal combustion engine exhaust valves, 9A1027
VLASSOPOULOS, D: LDA measurements of steady streaming flows of Newtonian and viscoelastic fluids, 5A896
VLEUGELS, J: Machining of steel with sialon ceramics: Influence of ceramic and workpieces composition on tool wear, 4A833
VLOT, A: Application of FE techniques in the displacement compatibility method, 2A8
- Impact loading on fiber metal laminates, 7A261
VLUG, MA: Influence of fiber length and concentration on the properties of glass fiber-reinforced polypropylene - I: Tensile and flexural modulus, 11A477
VODENITCHAROVA, T: Buckling of circular cylindrical shells subject to uniform lateral pressure, 12A623
VOEVODIN, AA: Comparative tribology studies of hard ceramic and composite metal-DLC coatings in sliding friction conditions, 2T804
VOGEL, CA: Further note "On the magnitude and apparent range of variation of the von Karman constant", 3T970
VOGELIUS, M: Method for imaging corrosion damage in thin plates from electrostatic data, 12A719
VOGT, E: Porosity of the Polish hard coals, 9A690
VOGT, WG: Approximate time optimal control of DC servos with unknown load and nonlinear friction torque, 4A347
VOGWELL, J: Failure in lug joints and plates with holes, 2A366
VOHRINGER, O: Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), 2A391
- Modeling the flow stress in metals as a function of the temperature and strain-rate (Spanish), 3A459
VOIGT, M: Asymptotic study of heat transfer in the entrance region of turbulent channel and pipe flows (German), 6A1068
VOINOV, OV: Spreading of a drop of viscous liquid over a surface under the action of capillary forces, 8A900
VOISIN, B: Fourth Int Symposium on stratified flows held at Univ Joseph Fourier, Grenoble, June 29 - July 2, 1994, 7A1061
- Fourth International Symposium on Stratified Flows: Part B, University Joseph Fourier, Grenoble, June 29 - July 2, 1994, 8A875
VOISIN, D: Acetaldehyde oxidation in a JSR and ignition in shock waves: Experimental and comprehensive kinetic modeling, 5A1245
- Oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves, 12A1310
VOIT, VB: Rheokinetics of urea-formaldehyde resins gelation, 9A1036
VOKE, PR: Large-eddy simulation of turbulent heat transport in enclosed impinging jets, 5A950
- Subgrid-Scale modeling at low mesh Reynolds number, 8A989
VOLCHKOV, EP: Heat transfer in a channel with a counter-current wall jet injection, 1A1180
VOLD, H: High resolution order tracking at extreme slew rates using Kalman tracking filters, 3A372
VOLEISIS, A: Ultrasonic measurement of zirconium tubes used in channel-type nuclear reactors, 8A701

VOLETI, SR: Global-local analysis of large-scale composite structures using FEMs, 4A811
VOLF, J: Tactile transducer development for rehabilitation and exercise machines, 10A1492
VOLGMANN, W: Three-dimensional flow simulation on high-performance computers, 4A984
VOLK, MW: Pump Characteristics and Applications, 10N31
VOLKER, RE: Fractional step method for mass transport in groundwater, 6A1190
VOLKOV, AV: Effect of interphase adhesion on composite properties, 6A788
VOLKOV, NB: Dynamics of large-scale spatial structures in current-carrying fluids and the electric explosion conductors, 8A997
VOLKOV, VF: Computation of supersonic flow over spatial configurations with sharp leading edges, 12T1175
VOLKOV, VZ: Study of hydrodynamics in the melt and dope extrusion process in the spinnerette channel, 6A559
VOLLAND, H: Atmosphere and Earth's rotation, 8A1364
VOLLEBREGT, EAH: Gauss-Seidel type solver for special convex programs, with application to frictional contact mechanics, 3T837
VOLLMAYR, H: Lattice gas simulation of Darcy flow with memory-free collisions, 9A1353
VOLLMER, C: Large displacement analysis of a beam using a CAD geometric definition, 2A466
VOLLSOV, SV: Nonstationary convection near a vertical surface with periodic change in heat flux, 6A1079
VOLOSHIN, A: Application of the integrating fiber optic sensor for vibration monitoring, 1A170
VOLPE, R: Equivalence of second-order impedance control and proportional gain explicit force control, 4A332
VOLPERT, V: Reactive infiltration in porous media with thermal effects, 8A1307
- Linear stability analysis of reaction fronts in liquids, 11A980
VOLPERT, VA: Forced forward smolder combustion, 7A1307
VOLPERT, Y: Skin-stiffener interface stresses in tapered composite panel, 4A527
VOLPONI, JV: Structure of H_2-NO_2-argon and H_2-O_2-argon laminar premixed flames, 2A1182
- Effect of allene addition on the structure of a rich $C_2H_2/O_2/Ar$ flame, 11A1281
VOLZ, MP: Flow transitions in a rotating magnetic field, 10A1186
VON BACKSTROM, TW: Minimization of the exit loss of a rotor-only axial fan, 11A1056
VON FLOTOW, AH: Importance of representative structural models in turboprop acoustics, 6T231
VONDERWELL, DJ: Optimization of hybrid-rocket-booster fuel-grain design, 5A1291
VONESH, MJ: Computation of vascular flow dynamics from intravascular ultrasound images, 11A1470
VONGPASEUTH, T: Russian RD-704 for single-stage vehicles, 10T951
VOROB'EV, YV: Longevity criteria for the mechanisms incorporating higher kinetmatic pairs, derived by solving the contact problem, 3A856
VORONINA, LF: Heat exchange between a gas suspension and a wall, 10A1283
VORONKOV, VS: Dynamics of the stabilization system of the magnetic suspension of a gradiometer sensor, 3A80
VORONOVICH, AG: Note on horizontal-refraction-modal tomography, 3A258
- Two-scale model from the point of view of the small-slope approximation, 8A181
- Non-local small-slope approximation for wave scattering from rough surfaces, 10A265
- Non-local small-slope approximation for wave scattering from rough surfaces, 11A178
VORONTSOV, SS: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
VOROS, G: Mathematical description of the tensile stress-strain curves of polycrystalline face centered cubic metals, 8A425
VOROVICH, II: Functional Analysis: Applications in Mechanics and Inverse Problems - Solid Mechanics and Its Applications Series, Vol 41, 12R1
- Approach to the solution of dynamic problems for laminated electroelastic and anisotropic media, 7A688
VOS, MC: Analytical solution to solute transport in continuous arterio-venous hemodiafiltration, 6A1344
VOSS, MJ: Effects of the rate of latent heat release on fluid flow and solidification patterns during alloy solidification, 11A611
VOSSINIS, A: Shape optimization in aerodynamics using nonlinear generalized minimal residual algorithm, 2A266
VOULGARIS, G: Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, 7A1052
VOULGARIS, PG: Robust control of a slewing beam system, 1A414
- Approximate feedback linearization: A normal form approach, 12A363
VOVELLE, C: Chemical structure of atmospheric pressure premixed n-decane and kerosene flames, 3A1214
- Experimental study of extinction of nonadiabatic counterflow premixed flames, 10A1360
VOVK, IV: Sound radiation by a cylindrical piezoelastic shell with an asymmetric insertion, 6A234
VOYIADJIS, GZ: Anisotropic damage of fiber-reinforced MMC using overall damage analysis, 3A690
- Damage-plasticity in a uniaxially loaded composite lamina: Overall analysis, 4A725
- Experimental damage investigation of a SiC-Ti aluminide metal matrix composite, 4A729
- Anisotropic yield surface model for directionally reinforced metal-matrix composites, 5A456
- Experimental determination of damage parameters in uniaxially-loaded metal-matrix composites using the overall approach, 5A642
- Study of layering procedures in FE analysis of RC flexural and torsional elements, 6A756
- Anisotropic damage for the characterization of the onset of macro-crack initiation in metals, 7A857
- Cyclic anisotropic-plasticity model for metal matrix composites, 8A437
- Coupled incremental damage and plasticity theory for metal matrix composites, 9A783
VOZAR, L: Computer-controlled apparatus for thermal conductivity measurement by the transient hot wire method, 8A1174
VRACHOPOULOS, M: On-site experimental estimation of thermal conductivities and heat capacities in multilayer walls under arbitrary transient conditions using explicit and implicit finite difference schemes, 6A1114
VRADIS, G: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9, 3N40
VRADIS, GC: Heat transfer in flows of non-Newtonian Bingham fluids through axisymmetric sudden expansions and contractions, 1A1210
- Concrete penetration by eroding projectiles: Experiments and analysis, 7A252
- Constitutive models for concrete penetration analysis, 8A189
- Creeping flow of a Bingham plastic through axisymmetric sudden contractions with viscous dissipation, 8A1105
VRBIK, J: Note on the torsion of a non-homogeneous solid by an annular disc, 1A473
- Reissner-Sagoci problem for a nonhomogeneous half-space with a penny-shaped crack, 2A615
- Contact problem of a pair of flat rectangular stamps resting on an elastic half-space, 3A432
- Plastic zones in an orthotropic plate of finite width containing a Griffith crack, 12A746
VREMAN, B: Comparison of numerical schemes in large-eddy simulation of the temporal mixing layer, 7A1134
VRENTAS, CM: Strain-coupling effects in steady planar extension, 1A956
VRENTAS, JS: Strain-coupling effects in steady planar extension, 1A956
VRIJKOTTE, TGM: Influence of the parameters of a human triceps surae muscle model on the isometric torque-angle relationship, 9A1438
VU, THI: Development of pressure-based composite multigrid methods for complex fluid flows, 11A902
VU-KHANH, T: Optimization of the ultrasonic welding of PEEK-carbon composites, 8A656
VU-QUOC, L: Dynamic formulation for geometrically exact sandwich beams and 1D plates, 5A145
VUIK, C: New insights in GMRES-like methods with variable preconditioners, 4A84
- Fast iterative solvers for the discretized incompressible Navier-Stokes equations, 7A1068
VUILLON, J: Reconsideration of oblique shock wave reflections in steady flows - Part 2: Numerical investigation, 4A285
- Numerical investigation of shock wave reflections in steady flows, 11A914
VUILLOT, F: Magnetic flow meter measurement of solid propellant pressure-coupled responses using an acoustic analysis, 8T1272
VUJANOVIC, BD: Conservation laws and reduction to quadratures of the generalized time-dependent Duffing equation, 5A91
VUJICIC, VA: Rheonomic constraints force, 1T84
VUKOBRAT, MD: Lie symmetry and conservation laws of thermodiffusion in viscoelastic materials, 1A475
VUKOBRATOVIC, M: Quality of stabilization of robot interacting with dynamic environment, 3A404
- Adaptive hybrid control of robots (Russian)I technique of biped locomotion robots (Russian), 3A402
- Biological aspects of controlling complex robotic systems (Russian), 3A399
- Deflection compensation for large flexible manipulators, 7A430
- One method for efficient dynamic modeling of flexible manipulators, 7A435
- Position-force control of robot interacting with dynamic environment in Cartesian space, 9A463
VUKOBRATOVIC, MK: Modeling, simulation, and control of robots and robotized FMS, 1A424
VUKOLOV, LA: Study of brake blocks made of improved composite frictional materials, 5A819
VUKSANOVIC, B: Active control of environmental noise, 8A252
VUL'FSON, II: Analysis of forced vibration in cyclic mechanisms with strongly interacting flexural and torsional subsystems, 3A855
- Parametric pulses during shockless reversals in linkage clearances, 9A1026
VULCAN, T: Emission spectra of burning iron in high-pressure oxygen, 9A1332
VULETICH, IJ: Development of a wind tunnel test facility for yacht aerodynamic studies, 5A989
VULLIERME, J-J: Experimental study of heat transfer coefficients in film cooling on a non-adiabatic wall: Effects of injection geometry (French), 8A1066
VULLIET, L: Interface model to describe viscoplastic behavior, 10A549
VULPE, A: Fragility estimation for seismically isolated nuclear structures by high confidence low probability of failure values and bi-linear regression, 9A1414
VUONG, VQ: Analytical integration and a numerical method for 1D compressible flow with diffusive transport, 6A931
VURE, NRS: Effect of cooling rate and stacking sequence on the fatigue behavior of notched quasi-isotropic AS4-PEEK laminates, 11A630
VYAS, NS: Estimation of nonlinear stiffness parameters of rolling element bearings from random response of rotor-bearing systems, 4A335
- Determination of blade stresses under constant speed and transient conditions with nonlinear damping, 10A310
VYAS, SB: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237
VYNNYCKY, M: Conjugate free convection due to a heated vertical plate, 6A1075
VYSHINSKY, VV: Calculation of 3D separated flows within the framework of nonstationary Euler equations, 10T1087

W

WAAG, RC: Wave space resolution in ultrasonic scattering measurements, 5A291
WAAS, AM: Response of thick composite rings under uniform external pressure, 1A599
- Compressive failure of composites - Part I: Testing and micromechanical theories, 3A692
- Compressive failure of composites - Part II: Experimental studies, 3A693
- Optimally reinforced cutouts in laminated circular cylindrical shells, 4A556
- Initial post-buckling behavior of a finite beam on an elastic foundation, 11A136
WACH, E: Condensation of saturated vapors on horizontal helically formed tubes of elliptical cross section, 3A1148
WACHI, S: Numerical identification of secondary buckling phenomena of elastic rectangular plate under pure bending (Japanese), 1A658
WACHSPRESS, DA: Rotor aerodynamic loads computation using a constant vorticity contour free wake model, 2A1028
WACLAWIK, J: 3nidimensional model of spontaneous fire in goaf or coal fissures (Polish), 3A1351
- Numerical prediction of temperature and moisture of air in longwalls (Polish), 9A1408
WADA, BK: Intelligent control system for multiple dof vibration isolation, 7A136
WADA, K: Field observation of water surface oscillation in a pool-weir fishway (Japanese), 3A202
WADA, Y: Water quality control system considering storm runoff and its application (Japanese), 3T1398
- Evaluation of an effect of a porous asphalt pavement to add an infiltration pipe on runoff control (Japanese), 3A1255
- Study on metallographic damage parameter in creep-damage-dominant condition under creep-fatigue loading, 11A633
WADAWADIGI, G: Computation of hypersonic flows with finite catalytic walls, 1A1016
WADDINGTON, DJ: Formation of propene oxide from the co-oxidation of propene and acetaldehyde, 3A1228
WADEE, MK: Fat-fractal scaling in an area-preserving structure mapping, 4A586
WADHAMS, P: Ocean waves and sea ice, 2A177
WADIA, AR: Effect of tip clearance on a swept transonic compressor rotor, 11A1059
WADLEY, HNG: Fiber damage during the consolidation of PVD Ti-6Al-4V coated Nextel 610™ alumina fibers, 2A649
- Two-dimensional wave propagation in cylindrical single-crystal solid-liquid bodies, 3A266
- Power-law creep blunting of contacts and its implications for consolidation modeling, 9A497
WADOWSKI, T: Heat pipe-based cooling systems for photovoltaic cells under concentrated solar radiation, 3A1153
WADSWORTH, DC: Computational study of radiometric phenomena for powering microactuators with unlimited displacements and large available forces, 11T357
WADSWORTH, J: Effect of temperature on the mechanical properties of mechanically-alloyed materials at high strain rates, 1A495
WAFA, FF: Prestressed high-strength concrete beams under torsion, 1A894
WAGGONER, F: Centrifuge modeling and analysis of concrete gravity dams, 2A779
WAGNER, BA: Microwave heating of carbon-coated ceramic fibers: A mathematical model, 6A1142
- Self-similar solutions of Barenblatt's nonlinear filtration equation, 11A938
WAGNER, GS: Signal detection using multi-channel seismic data, 11A1397
WAGNER, HD: Residual stresses in microcomposites and macrocomposites, 3A506
- Toughness of interfaces from initial fiber-matrix debonding in a single fiber composite fragmentation test, 4A739
WAGNER, JW: Study of crack-tip motion in dynamic fracture by microscopic time-resolved holography, 7A866
WAGNER, MG: CAD with spatial rational B-spline motions, 12A971
WAGNER, MH: Rheotens-mastercurves and elongational viscosity of polymer melts, 10A1050
WAGNER, P: Transient elastic waves in finite layered media: 2D axisymmetric analysis, 12A224
WAGNER, S: Computational Fluid Dynamics Conference, 5-8 September, 1994 Stuttgart, Germany, 6N3
- Compressible potential flow around a helicopter rotor in arbitrary motion, 10A1103
WAGNER, W: Coupling of 2D and 3D composite shell elements in linear and nonlinear applications, 9A607
WAGONER, RH: Fundamentals of Metal Forming, 12R15
- Anisotropic yield functions with plastic-strain-induced anisotropy, 12A525
WAGROWSKA, M: Modeling of dynamic problems for viscoelastic composites, 12A578
WAHAB, M: Residual strength approach to fatigue design and analysis, 1A887
WAHAB, MA: Creep damage simulation of thick-walled tubes using the θ projection concept, 8A406
WAHAB, MMA: Two-dimensional five-noded FE to model power singularity, 8A25
WAHEED, M: Numerical study of ductile void growth under dynamic loading conditions, 8A634
WAHLBIN, LB: Superconvergence in FEMs and meshes that are locally symmetric with respect to a point, 10A24
- Discretization with variable time steps of an evolution equation with a positive-type memory term, 12A509
WAHLIN, A: Generating and recoding transient bending waves in plates by pulsed lasers, 7T247
WAHLIN, AO: Transient acoustic near field in air generated by impacted plates, 7A326
WAIDA, T: Micro-grinding of micro-mahat are locally symmetric with respect to a point, 10A24
- Discretization with variable time steps of an evolution equation with a positive-type memory term, 12A509
WAHLIN, A: Generating and recording transient bending waves in plates by pulsed lasers, 7T247
WAHLIN, AO: Transient acoustic near field in air generated by impacted plates, 7A326
WAIDA, T: Micro-grinding of micro-machine component (Japanese), 4T646
WAINWRIGHT, CER: Development of an integrated cost estimation system, 10T510
WAITZ, IA: Computational study of viscous effects on lobed mixer flow features and performance, 11A1072
WAJIMA, H: Autonomous generation of reflexion-based robot controller using inductive learning, 12A450
WAKA, R: Optimal sequencing site of hydro-power stations, 1A1433
WAKABAYASHI, K: Torsional vibration damping of diesel engine with rubber damper pulley, 6A170
WAKABAYASHI, M: Numerical analysis of the shear and thermal creep flows of a rarefied gas over the plane wall of a Maxwell-type boundary on the basis of the linearized Boltzmann equation for hard-sphere molecules, 10T1112
WAKAHARA, T: Effectiveness of tuned liquid dampers under wind excitation, 4A216
WAKAMATSU, Y: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
- Experimental studies of supersonic film cooling with shock wave interaction, 7A1096
WAKATANI, M: Study of MHD equilibrium and stability for heliotron-torsatron with helical axis, 4A1098
WAKAYAMA, S: Subsonic wing planform design using multidisciplinary optimization, 1A1105
- Characterization of 2D crack propagation behavior by simulation and analysis, 10A726
WAKE, BE: Evaluation of a Navier-Stokes analysis method for hover performance prediction, 7A982
- Investigation of high-order upwinded differencing for vortex convection, 7A48

WAKELIN, SL: Vortex ring interactions - II: Inviscid models, 11A876
WAKIHIRA, K: Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
WAKITA, E: Feature of differential settlement as fractal and its application for settlement estimation (Japanese), 7A695
WAKITANI, S: Formation of cells in natural convection in a vertical slot at large Prandtl number, 11A1121
WAKURI, Y: Effect of lubriiating oils on piston ring friction and scuffing, 10A1386
WALCZYK, Z: Computer Aided Design CAD CAM Vibration of Mechanical Systems Numerical Approach: Selected Problems, Volume 2 - (Wspomaganie Komputerowe CAD CAM Drgania Ukladow Mechanicznych W Ujeciu Komputerowym: Zagadnienia Wybrane tom 2), 9R3
WALD, DJ: Near-source ground motion and its effects on flexible buildings, 7A1379
WALD, P: Analysis of the stochastic velocity field by proper orthogonal decomposition, 3A973
WALDMAN, LK: Distributed mechanics of the canine right ventricle: Effects of varying preload, 6T1337
WALDO, RE: Continuous wave hydrogen fluoride overtone lasing saturation effects on fundamental gain suppression, 11A1082
WALDRON JR, WK: Shear and normal stress effects in finite circular shear of a compressible nonlinear viscoelastic solid, 11A440
WALDRON, KJ: Displacement analysis of an actively articulated wheeled vehicle configuration with extensions to motion planning on uneven terrain, 12A87
WALDVOGEL, JM: Transport phenomena in picoliter size solder droplet dispersion, 8A1117
WALENTA, ZA: Reflection of a moving shock wave: Boundary conditions for Monte-Carlo and continuum descriptions, 1A244
WALICKA, A: Analysis of a ferrofluid flow in a slot of the curvilinear thrust bearing, 9A1000
- Galerkin's method for multilobe conical bearing with an incompressible Newtonian lubricant, 9A1003
WALICKI, E: Analysis of a ferrofluid flow in a slot of the curvilinear thrust bearing, 9A1000
- Galerkin's method for multilobe conical bearing with an incompressible Newtonian lubricant, 9A1003
WALIGORA, W: Effect of boron introduction into bearing steel through laser treatment on the properties of surface layers (Polish), 6A818
WALK, H: Averaged stochastic approximation for linear regression, 7T377
WALKER , JD: L/D effect for long rod penetrators, 7A255
WALKER II, JL: Burst pressure prediction in graphite-epoxy pressure vessels using neural networks and acoustic emission amplitude data, 11A708
WALKER, AJ: Bifurcations of incompressible flow through plane symmetric channel expansions, 9A1147
WALKER, BS: Navier-Stokes computations and experimental comparisons for multielement airfoil configurations, 5A993
WALKER, CA: Characterization of mixed-mode energy release rates in orthotropic materials, 8A637
WALKER, DJ: Advanced helicopter flight control using two-dof H^{∞} optimization, 8A323
- Structure of a 2-dof H^{∞} loop shaping controller, 11T288
WALKER, DT: Evaluation of algebraic stress modeling in free-surface jet flows, 9A1194
WALKER, JA: Fabrication of a mechanical antireflection switch for fiber-to-the-home systems, 11T619
WALKER, JDA: Asymptotic two-layer model for supersonic turbulent boundary layers, 1A1078
- Instability in supersonic boundary-layer flow over a compression ramp, 4A1057
- Note on the Baldwin-Lomax turbulence model, 5T970
- Unsteady separation and heat transfer upstream of obstacles, 6A953
- Onset of instability in unsteady boundary-layer separation, 11A978
WALKER, JS: Liquid-metal flow in an insulated rectangular expansion with a strong transverse magnetic field, 6A1005
- Buoyant convection during the growth of compound semiconductors by the liquid-encapsulated Czochralski process with an axial magnetic field and with a non-axisymmetric temperature, 9A1080
WALKER, M: Optimization of symmetric laminates for maximum buckling load including the effects of bending-twisting coupling, 3A562
- Optimal design of symmetric angle-ply laminates subject to nonuniform buckling loads and in-plane restraints, 11A728
- Design of shear-deformable laminated shells for maximum buckling load under combined loading, 11A720
WALKER, NS: Creep deformation and rupture of low alloy ferritic weldments under shear loading, 8A407
WALKER, PJ: Moment-curvature relations for ferrocement beams, 4A539
WALKER, SP: Analysis of 3D transient acoustic wave propagation using the boundary integral equation method, 10A372
WALL, A: Finite element analysis of fractured tibia treated with ZESPOL stabilizer, 10A1481
WALL, KM: Application of a nonlinear stress-strain model to axisymmetric turbulent swirling flows, 11A1003
WALL, SD: Effects on operations of highly adaptive missions, 10A328
WALLACE, AL: Design and performance of an experimental external fixation device with load transducers, 4A1369
WALLACE, DB: Transport phenomena in picoliter size solder droplet dispersion, 8A1117
WALLACE, DI: Quadrature schemes for a general family of functions, 11A71
WALLACE, J: Velocity field of the turbulent very near wake of a circular cylinder, 10A1160
WALLACE, JM: Measurement of vorticity in turbulent flows, 2A995
WALLACE, JW: Evaluation of UBC-04 provisions for seismic design of RC structural walls, 11A1411
WALLACE, W: New approach to fatigue threshold, 1A766
WALLBRIDGE, S: Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, 7A1052
WALLEN, P: Embrittlement of a steam turbine rotor, 6A621
WALLENDORF, LA: Markov description of wave-crest statistics, 8A194
WALLER, J: Use of a *virtual machine* to gauge the level of complaint to be expected from a proposed generating set, 7T310
WALLER, MD: Wear characteristics of PDC pin and hybrid core bits in rock drilling, 3A830
WALLEY, A: Fatigue crack initiation and propagation on shot-peened surfaces in A316 stainless steel, 4A670
WALLHEAD, IR: Measurements of stress intensity factors of an interface crack under mixed mode loading, 11A698
WALLIN, K: Descriptive characteristics of different types of test for irradiation embrittlement, 3A1361
WALLINGFORD, HR: Tables for the Calculation of Resistance in Internal Flows, 12N44
WALLIS, SG: Accurate numerical algorithm for advective transport, 5A1207
- Limitations of traditional finite volume discretizations for unsteady computational fluid dynamics, 10T38
WALLISER, D: Anharmonic Casimir Oscillator: The Casimir effect in a model microelectromechanical system, 5T346
WALLRABE, U: Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
WALMSLEY, JL: Mixed spectral finite-difference (MSFD) model: Improved upper boundary conditions, 4A51
WALPOLE, LJ: Elastic singularity in joined half-spaces, 11A423
WALRAVEN, J: Structural lightweight concrete: Recent research, 1A895
- Numerical analysis of reinforced concrete continuous deep beams, 6A750
WALRAVENS, B: Inhibiting effect of brominated compounds on oxidation reactions, 5A1247
WALSH, F: Application of x-ray techniques to studies of corrosion and protection - Part II: Experimental x-ray diffraction measurements, 2A589
WALSH, FC: Application of x-ray techniques to studies of corrosion and protection - Part I: Review and literature survey, 2A588
- Phosphating of steel and the effects of galvanic coupling to zinc and zinc-based coatings, 2A806
WALSH, GC: Non-holonomic control systems: From steering to stabilization with sinusoids, 2A270
WALSH, KD: Development of t-z curves for cemented fine-grained soil deposits, 6A524
WALSH, PR: Human head-neck biomechanics under axial tension, 11A1454
WALSH, TF: Nonlinear behavior of a magnetic bearing system, 5A831
WALSH, TJ: Analytical and experimental mechanics of woven fabric composites, 11A464
WALTER, JW: Asymptotic structure of an adiabatic shear band in antiplane motion, 6A179
WALTER, TA: Local damage assessment of metal barriers under turbine missile impacts, 6A168
WALTER, WR: Phase and spectral ratio discrimination between NTS earthquakes and explosions - Part I: Empirical observations, 2A1233
- Propagation characteristics of Lg across the Tibetan Plateau, 11A1347
- Variation of regional seismic discriminants with surface topographic roughness in the western US, 12A1393
WALTERS, K: Rheological Fundamentals of Polymer Processing - NATO Advanced Science Institutes Series: E, Applied Sciences 302, 5N27
WALTERS, R: Effects of large blockage in wind-tunnel testing, 2T1071
WALTON, D: Note on tip relief and backlash allowances in non-metallic gears, 7A1010
WALTON, JR: Crack and Contact Problems for Viscoelastic Bodies, 2N25
WALZ, JE: Experimental validation of an integrated controls-structures design methodology, 8A350
WAMBSGANSS, MW: Application of chaos theory in identification of two-phase flow patterns and transitions in a small, horizontal rectangular channel, 12A108
WAMPLER, CW: Forward displacement analysis of general six-in-parallel SPS (Stewart) platform manipulators using soma coordinates, 7A432
WAN ABAS, WAB: Stress stabilization behaviors in skin under small tensile loads *in vitro*, 2A1300
WAN, CHIH-JIAN: Global asymptotic stabilization of the spinning top, 1A91
- Nonlinear feedback control with global stabilization, 3T330
- Global stabilization of the oscillating eccentric rotor, 10A105
WAN, GTY: Additive's influence on the pitting and wear of ball bearing steel, 10A979
WAN, K-C: Conventional K calibration equations for single-edge-cracked tension specimens, 10A834
WAN, KAI-TAK: Fracture mechanics of a new blister test with stable crack growth, 3A720
- Fracture mechanics of a shaft-loaded blister of thin flexible membrane on rigid substrate, 8A665
WAN, XIAOPENG: Load distribution in composite multifastener joints, 11A832
WAN, YONG: Antiwear and extreme pressure characteristics of 2-mercaptobenzothiazole derivative as the potential lubricating oil additive, 10A1229
- Effect of phosphorus-containing additives on the wear of aluminum in the lubricated aluminum-on-steel contact, 10T986
- Effects of diol compounds on the friction and wear of aluminum alloy in a lubricated aluminum-on-steel contact, 11A803
WANAG , ZB: Stability of river bifurcations in 1D morphodynamic models, 7T1050
WANDZURA, S: Generalized Gaussian quadrature rules for systems of arbitrary functions, 12A53
WANG , BAOGUON: Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, 3A21
WANG , BUYING: Study on quasi-pure probabilistic FEM (Chinese), 9A71
WANG , CHENG: Analysis of deflection to laminated plate using beam eigenfunction (Chinese), 9T589
WANG , FUGANG: Design of Lifetime Predication System of reformor tubes (Chinese), 11A640
WANG , G: Convective heat transfer in periodic wavy passages, 2A1084
WANG , HAI: Lagranian method for thermal post-buckling analysis of laminated panels (Chinese), 9A1278
WANG , JIANHUA: Implementation of the mesh generator for adaptive multigrid FEM (Chinese), 9A57
WANG , JUNJIE: Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), 3A1321
WANG , L: Active vibration control of smart composites featuring electro-rheological fluids, 2A118
WANG , LIMING: Study and measurement of air flow in closed-constrictors of air jet looms, 6A973
WANG , QIANXIN: Random response of long-span arch bridge under spatially variable seismic excitations (Chinese), 3A1321
WANG , REN: Mechanics problems in Geodynamics - Part 2, 12A1357
WANG , SHENGYUAN: Robust observer for fault detection of the sensor, 7A422
WANG , TIEJUN: New ductile fracture theory and its applications, 3A675
WANG , TZUCHIANG: Molecular dynamics simulation of crack-tip processes in copper, 3A714
WANG , WEIGUO: Numerical study of vortex reconnection for two anti-parallel vortex tubes, 3A895
WANG , WENTAO: Logical analysis and optimum design of engineering system reliability (Chinese), 9T902
WANG , YI: Relation between engine noise and crankshaft vibrations (Chinese), 9A234
WANG , YIYUN: Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, 3A915
WANG , YOU: Wear behavior of steel 1080 with different microstructures during dry sliding, 12A918
WANG , ZHENGWEI: Inverse analysis method of displacements in rock engineering (Chinese), 9A687
WANG , ZHIGUO: Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), 3A143
- Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), 9A24
WANG, ANBO: Optical fiber sensing technique for impact detection and location in composites and metal specimens, 1A222
- Sapphire optical fiber-based interferometer for high temperature environmental applications, 1A1298
WANG, ASD: Geometric mapping of yarn structures due to shape change in 3D braided composites, 3A498
WANG, B: Simple method for first dynamic mode of plastic deformation for suddenly loaded beams, 2A407
- Numerical analysis of the large deflection of an elastoplastic cantilever, 8A423
- Yield mechanisms of stepped cantilevers subjected to a dynamically applied constant tip force, 8A762
- Large plastic deformation of tubular beams under impact loading, 8A421
- Optimization of two-component plates against ballistic impact, 10A279
WANG, BAOGUO: Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, 10A36
WANG, BAOHE: Model of maximum liquid rate of fluidized spray granulator (Chinese), 8A935
- Research on heat transfer of centrifugal fluidized bed dryer (Chinese), 9A1365
WANG, BEN-REN: Decay of soliton in small blood artery, 10A1479
WANG, BENDE: Determination of parameters of hydrologic model considering effect of human activity on runoff (Chinese), 8A1444
WANG, BIAO: Electroelastic modeling of anisotropic piezoelectric materials with an elliptic inclusion, 1A682
- Statistical mechanics model of phase transformation of zirconia particles in ceramics, 7A550
WANG, BIN: Class of explicit forward time-difference square conservative schemes, 3A40
WANG, BIXIANG: Finite dimensional behavior for the derivative Ginzburg-Landau equation in two spatial dimensions, 6A516
WANG, BL: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22
- Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, 12A10
WANG, BO P: Application of genetic algorithm for the support location optimization of beams, 4A543
WANG, BOR-JENQ: Spark erosion behavior of silver-based particulate composites, 12A722
WANG, BOR-TSUEN: Optimal placement of microphones and piezoelectric transducer actuators for far-field sound radiation control, 10A367
WANG, BU-QIAN: Erosion-corrosion of coatings by biomass-fired boiler fly ash, 3A660
WANG, BX: Flow boiling of binary mixtures in microchanneled plates, 7A1234
WANG, C: Dynamic point specification approach to sequencing robot moves for PCB assembly, 4A420
- Power flow between three series coupled oscillators, 7A127
- Elastic-viscoplastic behavior of fiber-reinforced thermoplastic composites, 10A574
- New analysis method for a thin beam impacting against a stop based on the full continuous model, 10A274
WANG, C-C: Elastodynamic problems for laminated and fibrillar bodies, 4A241
WANG, C-Y: Stress field of a dislocation loop in an anisotropic solid, 8A395
- Green's function and general formalism for 2D piezoelectricity, 12A638
WANG, CC: Inclusion of elastic deformation in rigid-plastic FE analysis, 8A24
- In-tube evaporation of HCFC-22 in a 9.52 mm micro-fin-smooth tube, 11A1181
- Heat transfer and friction characteristics of convex-louver fin-and-tube heat exchangers, 12A1258
WANG, CF: Simulation of the nonlinear rheological properties of gluten dough using the Wagner constitutive model, 4A906
WANG, CH: Plastic deformation and fatigue under multiaxial loading, 11A456
WANG, CHANGWEN: Simulation of superplastic sheet forming and bulk forming, 6A567
WANG, CHEN: Research on itegrated system of casting technology CAD and numerical simulation (Chinese), 7A757
WANG, CHI-CHUAN: Air-side performance of brazed aluminum heat exchangers, 8A1188
WANG, CHI-CHUAN: Horizontal flow boiling of R22 and R407C in a 9.52 mm micro-fin tube, 12A1230
WANG, CHI-HWA: Stability of bounded rapid shear flows of a granular material, 8A1300
WANG, CHI-JO: Characterization of bounded-input bounded-output stability for linear time-invariant systems with distributional inputs, 10T391
WANG, CHI-TZUNG: Head-on collision of two coaxial vortex rings: Experiment and computation, 1A988
WANG, CHONG: Realization of optimal results in adaptive active vibration control (Chinese), 10A441
WANG, CHUAN-TAO: Failure and wrinkling criteria and mathematical modeling of shrink and stretch flanging operations in sheet-metal forming, 3A610
WANG, CHUN: Adaptive control in CNC machine cutting (Chinese), 8A273
WANG, CHUNG-CHENG: Two-dimensional elastodynamic transient analysis by QL time-domain BEM formulation, 9A277

WANG, CHUNQUI: Analytical study on the laser induced reverse-plugging effect by using the classical elastic plate theory - I: Temperature fields, 6A1175
WANG, CM: Deflection of sandwich plates in terms of corresponding Kirchhoff plate solutions, 1A606
- Ultimate strength analysis of stub girders, 1A896
- Buckling of skew Mindlin plates subjected to in-plane shear loadings, 2A492
- Allowance for prebuckling deformations in buckling load relationship between Mindlin and Kirchhoff simply supported plates of general polygonal shape, 2A489
- Vibrations of cylindrical shells with intermediate supports, 4A179
- Effectiveness of tuned liquid column dampers for vibration control of towers, 4A215
- Simply supported polygonal Mindlin plate deflections using Kirchhoff plates, 6A480
- Wagner term in flexural-torsional buckling of thin-walled open-profile columns, 6A493
- Vibration frequencies of simply-supported polygonal sandwich plates via Kirchhoff solutions, 7A182
- Large deflection of simple variable-arc-length beam subjected to a point load, 8A475
- Vibration frequencies for elliptical and semi-elliptical Mindlin plates, 8A121
- Buckling of annular plates elastically restrained against rotation along edges, 10A629
- Stability of orthogonally intersecting equal-leg angle cross-bracing systems, 11A540
- Optimization of linear segmented circular Mindlin plates for maximum fundamental frequency, 11A730
- Buckling of tapered circular plates: Allowances for effects of shear and radial deformation, 11A548
- Optimal locations of point supports in plates for maximum fundamental frequency, 12A819
- Optimal design of internal ring support for rectangular plates against vibration or buckling, 12A166
WANG, CONGYU: New calorimeter for measuring rapidly thermal conductivities of the organic liquids and the electrically conducting liquids, 1A1162
WANG, CY: Fluid-Structure Interaction and Structural Mechanics - Proc of 1995 ASME/JSME Pressure Vessels and Pipigg Conf, July 23-27, 1995, Honolulu, Hawaii, 2N14
- Torsion of a compound bar bounded by cylindrical polar coordinates, 1A593
- Torsion of a composite tube, 2T432
- Diffusion across a corrugated saw-tooth plate, 4T1196
- Rotation of a cylinder in a casing at zero reynolds number, 5A884
- Scram reliability under seismic conditions at the Experimental Breeder Reactor II, 9A1416
- Rotation of a slotted cylinder in a fluid at low Reynolds number: Implication on the no-slip condition for grates, 11T887
WANG, D: Analysis of shear localization in porous materials based on a lower bound approach, 1A514
- Closed loop shaped-input strategies for flexible robots, 2A308
WANG, DA-JUN: New-method for deriving eigenvalue rate with respect to support location, 9T189
WANG, DAJUN: Self-excited vibration of the shell-liquid coupled system induced by dry friction: The vibration mechanism of the Chinese cultural relic Dragon Washbasin, 10A309
WANG, DANWEI: Robust control of a manipulator performing constrained motion with uncertainties in the constraint functions, 2A346
- Control of constrained manipulators with flexible joints, 7A440
- Learning control for a class of nonlinear differential-algebraic systems with application to constrained robots, 7A445
WANG, DE SHENG: Simulation and analysis of upper Niagara River ice-jam conditions, 1A1440
- Numerical simulation of river ice processes, 1A1438
WANG, DE-JUN: New approach to the prediction of fatigue notch reduction factor K_f, 9A763
WANG, DELUN: Geometrical properties of some constraint ruled surfaces for spatial mechanisms (Chinese), 7A1020
WANG, DESHI: Chaos of nonlinear vibration systems under parametric and external excitation (Chinese), 10A98
WANG, DF: Active vibration control of smart composites featuring electro-rheological fluids, 2A118
WANG, DH: Orthogonal cutting mechanisms of graphite-epoxy composite - Part I: Unidirectional laminate, 2A543
- Orthogonal cutting mechanisms of graphite-epoxy composite - Part II: Multi-directional laminate, 2A544
- Chip formation in orthogonal trimming of graphite-epoxy composite, 6A570
WANG, DIANLONG: Study of system software of revolving solid measuring machine (Chinese), 8A339
WANG, DM: Modeling interstitial flow in an artery wall allows estimation of wall shear stress on smooth muscle cells, 5A1389
WANG, DONG-PING: Massively parallel processing in coastal ocean circulation model, 4A1349
WANG, DONNY: Micro-mechanical model of a composite containing a conservative nonlinear electro-magneto-thermo-mechanical material, 3A483
WANG, DR: Models of asynchronous parallel nonlinear multisplitting relaxed iterations, 6A61
WANG, DUO: Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - I: Inner crack tip away from or terminating at the interface, 7A826
- Annular crack in a nonhomogeneous matrix surrounding a fiber under torsional loading - : The crack going through the bimaterial interface into the fiber, 7A827
- Crack problem of a fiber-matrix composite with a nonhomogeneous interfacial zone under torsional loading - Part I: A cylindrical crack in the interfacial zone, 10A791
- Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - II: P and SV cases, 11A181
- Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - I: SH case, 11A180
WANG, EL: Model for determining rider induced energy losses in bicycle suspension systems, 8A330
WANG, EZ: Brittle fracture in compression: Mechanisms, models, and criteria, 4A696
WANG, FAMIN: Stability study of an unsteady oscillation flow, 11A977
WANG, FEI: Decentralized robust fault tolerant control for the sensor failure of the fighter, 6A340
WANG, FENG: Model for rate-dependent plasticity, 1A491
WANG, FENG-QUANG: Generalized variational priciples for the natural frequencies of elastic cylindrical shells, 1A156
WANG, FENGHU: Notch strength of ceramics and statistical analysis, 4A745
WANG, FENGHUI: Expressions of fatigue life of ceramics with given survivability, 5A593
WANG, FENGLONG: Current effect for wave forces on bipile in tandem array (Chinese), 8A878
WANG, FUGANG: Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), 8A588
WANG, FY: Cell-to-cell mapping method for time-optimal trajectory planning of multiple robot arm systems, 2A322
WANG, G: Mean stress effects in multiaxial fatigue, 1A764
WANG, G-X: Experimental investigation of interfacial thermal conductance for molten metal solidification on a substrate, 8A1167
WANG, GAOZHANG: Fluid-structure coupling kinetic analysis of propellers (Chinese), 9A1234
WANG, GS: Analyzing the fatigue crack growth in structural details, 7A773
WANG, GUANG-TE: New model describing convective-dispersive phenomena derived by using the mixing-cell concept, 9A1302
WANG, GUANGLUN: Dynamic damage constitutive model of concrete in uniaxial tension, 7A843
WANG, GUANGYUAN: Theory of response analysis of fuzzy stochastic dynamical systems with a single dof, 8A761
WANG, H: Parity space approach to robust fault detection in generalized state space systems, 2A290
- Finite element analysis of delamination cracks in bending of cross-ply laminates, 6A666
- Modeling and robust fault detection in generalized state space systems, 2A290
- Finite element analysis of delamination cracks in bending of cross-ply laminates, 6A666
- Modeling and control of nonlinear, operating point dependent systems via associative memory networks, 9T416
- Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling, 9A1328
- Detailed oxidation kinetics and flame inhibition effects of chloromethane, 10A1368
- Vibrational modes of thick cylinders of finite length, 10A193
- Hybrid fuzzy logic algorithm for position control of pneumatic actuator with 3/2-way solenoid valves, 11A345
- Stagnation point flow of a chemically reactive fluid in a catalytic porous bed, 12A1348
WANG, HAIBO: Transversal seismic analysis of shield tunnels in layered half-space soils (Japanese), 5A728
WANG, HAIGE: Study on steady surge pressure for yield-pseudoplastic fluid in a concentric annulus, 9A1039
WANG, HAIMAN: Design and implementation of control system based on expert system (Chinese), 11A353
WANG, HAIMING: Optical triangulation for dynamic gauging of cylindrical parts, 7A883
WANG, HB: Flopping phenomenon of flow behind two plates placed side-by-side normal to the flow direction, 10A1164
WANG, HONG-RUI: Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, 6A362
WANG, HONGYU: Algorithm of frequency domain least squares method used in system identification (Chinese), 8A267
- Study of variational law of information entropy passing through systems (Chinese), 8A260
- Identification of system functions from primary sensor to secondary source in active noise control system (Chinese), 8A253
- Real-time post-treatment algorithm for adaptive noise cancellation used in speech enhancement (Chinese), 8A255
WANG, HP: Developments and Applications of Non-Newtonian Flows, FED-Vol 231/MD-Vol
- Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N28
- Influence of secondary flows near the endwall and boundary layer disturbance on convective transport from a turbine blade, 5A1142
WANG, HSIN-PANG: Cast filling simulations of thin-walled cavities, 5A580
WANG, HUA: Simultaneous sedimentation and coalescence of a dilute dispersion of small drops, 1A1038
WANG, HUAIZHONG: Element-by-element matrix decomposition and step-by-step integration method for transient dynamic problems, 7A18
- Incidence-radiation condition of an artificial boundary, 9A275
WANG, HUI: Study on abrasive resistance of Ni-based coatings with a WC hard phase, 12A934
WANG, HUI-CHING: Two-dimensional lastodynamic transient analysis by QL time-domain BEM formulation, 9A277
WANG, HUI-MIN: Numerical simulation of water quantity and quality for river-type reservoirs, 1T1442
WANG, HUICONG: Cell orientation response to cyclically deformed substrates: Experimental validation of a cell model, 5A1377
WANG, HUIQIU: Research on ultra-precise level detection method of storage tanks (Chinese), 11A1087
WANG, HUIQUN: Theoretical solution for the frictionless rolling contact of cylindrical biphasic articular cartilage layers, 2A1287
WANG, HWA-CHI: Comparison of thermal rebound theory with penetration measurements of nanometer particles through wire screens, 9A1345
WANG, HY: Three-dimensional modeling and parametric study of turbulent burning along the walls of a vertical rectangular channel, 7A1337
- Three-dimensional modeling for prediction of wall fires with buoyancy-induced flow along a vertical rectangular channel, 10A1376
WANG, J: Transient analysis of squeeze-film dampers with oil hole feed, 2A1051
- Determination of the thermal diffusivity of toluene and methanol using laser-induced thermal grating (German), 6A1130
- Fiber optic polarimetric dynamic force sensor, 7T413
- Mode I stress singularity and intensity factor at a crack tip terminating at a transversely isotropic-orthotropic bimaterial interface, 9A829
WANG, JAMES TING-SHUN: Engineering analysis of buckling of delaminated beam plates, 12A628
WANG, JAN: Complex stress intensity factor of multi-material structure with an interface crack (Chinese), 11A665
WANG, JANE-LIN: Model for non-free-cutting, 1A725
WANG, JEEN-HWA: Velocity-weakening friction as a factor in controlling the frequency-magnitude relation of earthquakes, 12A1394
WANG, JEOU-SHYONG: Viscosity-temperature behavior of polymer melts, 4A891
WANG, JIA YE: Spanning line segments of a polyhedron, 8A829
WANG, JIA-YI: Numerical algorithms for mapping boundaries of manipulator workspaces, 12A445
WANG, JIAN N: New modification of the formulation of Peierls stress, 9A476
WANG, JIAN-JUEI: Three-dimensional analysis of surface cracks in an elastic half-space, 12A487
WANG, JIANGUO: Boundary-domain element method for free vibration of moderately thick laminated orthotropic shallow shells, 2A109
- Boundary integral equation formulation for moderately thick laminated orthotropic shallow shells, 3A543
WANG, JIANHUA: Analysis of elastoplastic seismologic response on soft clay foundation (Chinese), 6A535
WANG, JIANZHONG: Adaptive multiresolution collocation methods for initial boundary value problems of nonlinear PDEs, 12A58
WANG, JIE: Smoothing of dead reckoning image in distributed interactive simulation, 9T964
WANG, JIJUN: Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), 11A157
WANG, JINFU: Flow reactor models for gas-liquid reactions based on the penetration theory, 3A1196
WANG, JINLIANG: Methods with high accuracy for FE probability computing, 1A33
WANG, JN: Microphysical model of Harper-Dorn creep, 8A410
WANG, JT: Redundancy resolution of robotic manipulators using normalized generalized inverses, 5A367
- Streasnsverse impact loading, 6A434
WANG, JZ: Physical aging behavior of high-performance composites, 3A685
- Evaluation of chemical aging-oxidation in high-performance composites using the Vickers microindentation technique, 8A472
WANG, KC: In-flight imaging of transverse gas jets injected into compressible crossflows, 4A1051
WANG, KEH-HAN: Hydrodynamic interactions of cnoidal waves with a vertical cylinder, 11A215
WANG, KEMING: Well-posedness of the initial value problem for elastic-plastic oscillators with isotropic work-hardening, 1A503
WANG, KEXIE: Nonaxisymmetric acoustic field excited by a cylindrical tool placed off a borehole axis and extraction of shear wave, 7A314
- Theoretical study of perturbation method for acoustic multipole logging in anisotropic formation, 10A383
WANG, KK: Study on wire sweep in encapsulation of semiconductor chips using simulated experiments, 3A902
- Elastic buckling of a circular disk due to internal membrane forces, 5T528
WANG, KL: Surface-Interface and Stress Effects in Electronic Material Nanostructures, Volume 405, 11N10
WANG, KP: Adaptive quadtree subdivsding contour plotting algorithms, 1A30
WANG, KUN: Extended hybrid method for contribution due to truncated lower- and higher-frequency modes in modal summation, 11A137
WANG, KW: Pseudo-sensor-output-feedback approach for semi-active structural control, 5T699
WANG, L: Intervening variables and constraint approximations in safety index and failure probability calculations, 2A742
- Asymptotic analysis of a class of 3 dof Hamiltonian systems near stable equilibria, 4A111
WANG, L-P: Interactions of particles and microbubbles with turbulence, 10A1122
WANG, LAI: Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), 8A588
WANG, LB: Heat transfer and fluid flow characteristics of plate-array aligned at angles to the flow direction, 1A1178
WANG, LI: New method for HENs with different film heat transfer coefficients: Pseudo-temperature (Chinese), 8A1192
WANG, LI-CHIH: Integrated object-oriented Petri net paradigm for manufacturing control systems, 7A475
WANG, LI-CHUNG T: Time-optimal control of multiple cooperating manipulators with trajectory and motion program constraints, 8A362
WANG, LIAN-PING: Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part 1: Velocity field, 8A977
WANG, LIMIN: Complex stress intensity factor of multi-material structure with an interface crack (Chinese), 11A665
WANG, LING: Simulation studies of control of oil-refining heating furnaces (Chinese), 8A1270
- New method for HENs with different film heat transfer coefficients: Pseudo-temperature (Chinese), 8A1192
WANG, LIPING: Improved two-point function approximations for design optimization, 2A724
- Dynamic effect of open latitude on wind-driven circulation in a zonal β-plane channel, 5T1338
- Multivariate Hermite approximation for design optimization, 8A717
- Safety index calculation using intervening variables for structural reliability analysis, 10A888
WANG, LIQIU: Decomposition theorem of motion, 9A3
WANG, LUE: Contour design and practice for a low radar cross section vehicle, 10T941
WANG, LW: Mixed-convection mass transfer in a fully developed horizontal square channel flow, 6A1180
WANG, MENG: Nonlinear oscillations in a resonant gas column: An initial-boundary-value study, 1A287
WANG, MING L: Strain measurements using real time X-ray images, 2A690
- Constitutive models for healing of materials with application to compaction of crushed rock salt, 2A608
- Experimental and numerical investigation of failure of alumina under plane stress, 3A649
- Structural system identification using least mean square (LMS) adaptive technique, 4A229
WANG, MING-SHYAN: Robust dynamic output feedback sliding-mode control of singular perturbation systems, 6A305
- Design of near-optimal observer-based controllers for singularly perturbed discrete systems, 12A370
WANG, MINGGUI: Precision calorimetric studies of H_20 electrolysis, 1A1163
WANG, MINGYU: Conjugate forced convection in crossflow over a cylinder array with volumetric heating, 7A1204

WANG, ML: Optical fiber sensor system embedded in a non-circular cross-sectioned member, 11A349
WANG, MMT: Petrov-Galerkin formulation for incompressible flow at high Reynolds number, 9T42
WANG, MO: Fatigue crack growth under mode II loading, 6A598
WANG, MORGAN: Smoothing of dead reckoning image in distributed interactive simulation, 9T964
WANG, MORTEN MT: Comparison study on multivariant and univariant FEs for 3D incompressible viscous flows, 2A11
- Monotone multidimensional upwind FEM for advection-diffusion problems, 10A1275
WANG, N: Aspects of energy methods for the inelastic seismic response of ductile SDOF structures, 5A1316
- Normalized energy-based methods to predict the seismic ductile response of SDOF structures, 5A1323
- Finite-element analysis of selectively SiC fiber-reinforced titanium composites, 10A12
WANG, NING: Cell shape, cytoskeletal mechanics, and cell cycle control in angiogenesis, 5A1378
WANG, NZ: Empirical prediction of the shear layer thickness in lubricating films, 5A1087
WANG, P: Elementary theory of 1D rod penetration using a new estimate for pressure, 7A254
- Scanning horizon sence attitude correction for earth oblateness, 11T234
WANG, PAO-HSII: Parametric studies on cable-stayed bridges, 11A780
WANG, PC: Fatigue life prediction of fiber-reinforced titanium matrix composites, 8A583
WANG, PEIGUANG: Iterative methods for the boundary value problem of a fourth-order differential-difference equation, 6A60
- Analysis of stability of Bingham fluid flowing down an inclined plane, 6A984
WANG, PJ: Saint-Venant's principle in pin-jointed frameworks, 2A721
- Saint-Venant decay rates: A procedure for the prism of general cross-section, 5A496
- Saint-Venant's principle and the anti-plane elastic wedge, 11A410
WANG, PKC: Feedback control of a heat diffusion system with time-dependent spatial domain, 4A383
WANG, PT: Solution for the contact between two spherical particles undergoing large deformation, 12A560
WANG, Q: LQR for state-bounded structural control, 9A426
WANG, QIAN: Thermal analysis of a piston cooling system with reciprocating heat pipes, 2A1141
- Piston assembly design for improved thermal-tribological performance, 8A822
WANG, QIANG: Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, 3A915
WANG, QING: Three-dimensional axisymmetric analysis of a cracked fiber in a transversely-isotropic elastic medium, 8A456
WANG, QINGXIA: Calculation of ship flow in viscous fluid with free-surface effect (Chinese), 8A1004
- Corrected Prohaska method for determining hull form factor (Chinese), 8A1001
WANG, QINGXIANG: Experimental study of shear behavior of concrete beams with cold rolled deformed steel stirrups (Chinese), 8A747
WANG, QUANFENG: Modified ODE-solver for vibration of tube-in-tube structures, 8A125
- Sturm-Liouville equation for free vibration of a tube-in-tube tall building, 10A209
WANG, QX: Strong interaction between a buoyancy bubble and a free surface, 7A1092
WANG, R: Equivalent polynomial approximation technique in nonlinear structural dynamics, 2A150
- Asymptotic solution of a class of nonlinear non-autonomous systems with large damping under multiple external periodic forces, 8A77
- Exact stationary response solutions of nonlinear dynamic systems, 9A153
- Response of a nonlinear system with strong damping to multifrequency excitations, 10A136
WANG, REICHANG: Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), 8A817
WANG, REN: IUTAM-IASPEI Symposium on Mechanical Problems in Geodynamics, 7A1367
WANG, RONG: Boundary integral equations and the BEM for buckling analysis of perforated plates, 11A556
WANG, RONGDONG: Discrete-time model reference adaptive controller designs for robotic manipulators, 11A390
WANG, RUILING: Thermodynamic properties of aqueous mixtures of LiCl and Li_2SO_4 at different temperatures, 1A1160
WANG, S: Experimental and theoretical information on solid flow in a circulating fluidized bed, 1A1363
- Study of the shock motion in a hypersonic shock system-turbulent boundary layer interaction, 1A1047
- Long time behavior of the Ginzburg-Landau superconductivity equations, 2A507
- Time dependent Ginzburg-Landau equations of superconductivity, 4A597
- Finite strip analysis of imperfect laminated plates under end shortening and normal pressure, 5A510
WANG, SAE-JAN: Free convection heat transfer of non-Newtonian fluids over axisymmetric and 2D bodies of arbitary shape embedded in a fluid-saturated porous medium, 3A1071
WANG, SB: Chaotic oscillations in a low pressure two-phase natural circulation loop under low power and high inlet subcooling conditions, 11A1421
WANG, SHAO JIE: Kinematic synthesis of adjustable moving pivot four-bar mechanisms for multi-phase motion generation, 9A1022
WANG, SHIJIE: Exact solutions of elastic-plastic crack line field for mode II plane stress crack, 6A649
WANG, SHOUDONG: Two dimensional acoustic wave equation inversion combining plane-wave seismograms with well logs, 11A1359
WANG, SHOUXIN: Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, 9A105
WANG, SHUH-YI: Machining rate of hydrodynamic polishing process, 3A1001
- Ultra-precision machining by the hydrodynamic polishing process, 4A643
WANG, SHUHUA: Study on data processing of a teaching robot with redundant dof (Japanese), 7A462
WANG, SHUN-YUAN: Design of static reactive power compensator using fuzzy sliding mode control, 8A338
WANG, SHUOZHONG: Finite-difference time-domain approach to underwater acoustic scattering problems, 9A383
WANG, SL: Measurement of friction and material flow-stress by a plane-strain compression tribometer, 12A947
WANG, SQ: Application of the Haskind-Hanaoka relations to hydroelasticity problems, 2A190
WANG, SS: Effect of material nonlinearity on buckling and postbuckling of fiber composite laminated plates and cylindrical shells, 4A574
- Cyclic fatigue crack growth and fracture in knitted randomly oriented short-fiber composite, 4A668
- Fracture of knitted randomly-oriented short-fiber composite, 9A817
- Comparative testing of pulsatile impeller total heart and sarns nonpulsatile roller as biventricular assist device in pigs, 11A1478
WANG, SSY: Model verification on 3D tidal current analysis in Tokyo Bay, 6A936
WANG, SW: Study on thermal strain using subscale specimens, 6A1177
WANG, T: Effects of elevated free-stream turbulence on flow and thermal structures in transitional boundary layers, 5A937
- Near-optimal highly robust guidance for aeroassisted orbital transfer, 11A314
- Flow and heat transfer behavior in transitional boundary layers with streamwise acceleration, 11A947
WANG, TC: Analysis of the effects of symmetrical tilt grain boundaries on the plastic deformation, 1A515
- Experimental examination of forced-convection subcooled nucleate boiling and its application in microgravity, 8T1128
- Molecular dynamics simulation of interaction of a dislocation array from a crack tip with grain boundaries, 11A461
WANG, TEN-SEE: Numerical analysis of base flowfield for a four-engine clustered nozzle configuration, 2A968
- Grid-resolved analysis of base flowfield for four-engine clustered nozzle configuration, 7A1104
- Computational pollutant environment assessment from propulsion-system testing, 12A1331
WANG, TG: Oscillations of liquid drops: Results from USML-I experiments in Space, 8A932
WANG, TING: Combined effects of elevated free-stream turbulence and streamwise acceleration on flow and thermal structures in transitional boundary layers, 8T942
- Spectral analysis of boundary-layer transition on a heated flat plate, 8A943
WANG, TON-LO: Dynamic behavior of horizontally curved I-girder bridges, 1A173
- Vibration of thin-walled box-girder bridges excited by vehicles, 1A175
- Dynamic response of highway girder bridges, 12A199
WANG, TSUNKUEI: Dynamic response of laminated orthotropic spherical shells including transverse shear deformation and rotatory inertia, 11A520
WANG, TZUCHIANG: Fracture criterion based on the higher-order asymptotic fields, 6A688
- Micromechanics analyses of interface crack, 10A824
WANG, W: Two-phase FE comparative study of a side structure of a middle size tanker, 3A818
- Dugdale solution for cracks at the edge of an elliptical hole in an infinite and finite plate, 5A628
- Determination of load distribution in a threaded connector with yielding threads, 6A405
WANG, W-C: Experimental analysis of an arbitrarily inclined semi-infinite crack terminated at the bimaterial interface, 10A809
WANG, WEI: Dominant failure modes for structures with stochastic load processes, 3A793
- Research on heat transfer of centrifugal fluidized bed dryer (Chinese), 9A1365
WANG, WEI-CHUNG: Stress analysis of bolted joints in CFRP laminates by half-fringe birefringent-coating technique, 7A582
WANG, WEN: Partial EHL analysis of rib-roller end contact in tapered roller bearings, 10T1227
WANG, WEN-GUANG: Design and operation of a new transportable laboratory for emissions testing of heavy duty trucks and buses, 7T1316
WANG, WEN-JUNE: Sliding mode control design in multi-input perturbed discrete-time systems, 12T368
WANG, WEN-LIANG: Structural reanalysis in configuration space by perturbation approach: A real mode method, 4A814
WANG, WENBIN: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
WANG, WJ: Application of orthogonal wavelets to early gear damage detection, 2A702
- Decomposition of gear motion signals and its application to gearbox diagnostics, 5A820
- Wavelet transform in vibration analysis for mechanical fault diagnosis, 6A698
- Stability of laminated plates using finite strip method based on a higher-order plate theory, 7A663
- Application of wavelets to gearbox vibration signals for fault detection, 11A362
- Robust stabilization of large-scale time-delay systems with estimated state feedback, 12A321
WANG, WL: Perturbation method for determining eigensolutions of weakly damped systems, 4A137
- Dynamics and trackability of stylus systems, 10A502
WANG, WR: Non-conservative instability of a Timoshenko beam subjected to a partially tangential follower force, 5A123
WANG, X: Stress intensity factors and weight functions for longitudinal semi-elliptical surface cracks in thin pipes, 1A785
- Application of an in-line, stereoscopic, PIV system to 3-component velocity measurements, 1A1150
- Local weight functions for semi-elliptical surface cracks in finite thickness plates, 2A614
- Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, 8A450
- Asymptotic analysis of Oseen equations for small viscosity, 8A888
- Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, 12A926
WANG, X-M: Conservation laws and path-independent integrals with an application for linear electro-magneto-elastic media, 5A540
- Interaction between an interface and cracks, 5A649
- Issue of the interaction between multicracks near the interface, 5A657
- Damage-monitoring in composite laminates by piezoelectric films, 9A562
WANG, XC: Simplified analysis of creep stress redistribution for materials exhibiting primary creep, 1A480
- Generating solid models from 2D representations, 6A854
- Curvature sensing: A new concept in tracing technology, 6A375
- Simplified analysis of cyclic elastoplastic creep responses in elevated temperature structures under cyclic loading, 9A513
- Simplified analysis of effective strain range and accumulated strain in structures under cyclic mechanical loading, 9A514
- Finite element analysis on creep damage, 12A724
WANG, XD: Dynamic interaction of a crack with a circular hole under antiplane loading, 4A751
- General treatment of an oblique crack near a bimaterial interface under antiplane loading, 11A662
WANG, XIANGJIAN: Exact solutions of elastic-plastic crack line field for mode II plane stress crack, 6A649
WANG, XIANJIN: Large deformation FE analysis of cylindrically bending of metal strips (Chinese), 11A12
WANG, XIAO: Mixed convection in an inclined channel with localized heat sources, 1A1204
WANG, XIAO TONG: Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler, 12A715
WANG, XIAO-MING: Finite element approach of vibration control using self-sensing piezoelectric actuators, 12A138
WANG, XIAOCHANG: Dynamic pole assignment and Schubert calculus, 10T425
WANG, XIAODONG: Infiltration and saturated hydraulic conductivity of compacted clay, 2A1170
WANG, XIAOJUN: Short-carbon-fiber-reinforced epoxy as a piezoresistive strain sensor, 7T900
WANG, XIAOQUAN: Elastic area compressibility of the rabbit aorta, 12A1465
WANG, XIAOYUN: New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), 8A286
WANG, XIAOZHI: Stochastic and deterministic combinations of still water and wave bending moments in ships, 11A789
WANG, XICHENG: Parallel algorithm for structural optimization (Chinese), 8A721
WANG, XINHE: Expert system for preliminary bridge design (Chinese), 8A341
WANG, XINWEI: Differential quadrature for buckling analysis of laminated plates, 1A656
WANG, XIU-QING: Transient flows and pressure waves in pipes, 1T972
WANG, XIXUAN: Experimental investigation on the effectiveness of advanced hybrid squeeze film damper (Chinese), 4A542
WANG, XIZHONG: Model of maximum liquid rate of fluidized spray granulator (Chinese), 8A935
- Research on heat transfer of centrifugal fluidized bed dryer (Chinese), 9A1365
WANG, XL: Characteristics of soil reactions of an open lugged wheel under paddy soil conditions, 8A774
WANG, XN: Simplified analysis of creep stress redistribution for materials exhibiting primary creep, 1A480
- Simplified analysis of cyclic elastoplastic creep responses in elevated temperature structures under cyclic loading, 9A513
- Simplified analysis of effective strain range and accumulated strain in structures under cyclic mechanical loading, 9A514
- Finite element analysis on creep damage, 12A724
WANG, XP: Hydrodynamic instabilities, chaos and phase transition, 10A1167
WANG, XU: Frequency response functions for structural intensity - Part I: Theory, 1A313
WANG, XU-JIA: Existence and blow-up of solutions to two-phase nonequilibrium problems, 12A1244
WANG, XUYUE: Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), 11A1246
WANG, Y: Deformations with constant modified stretches describing the bending of rectangular blocks, 1A446
- Remarks concerning the flexure of a compressible nonlinearly elastic rectangular block, 4A428
- Analytical solution for periodic response of elastic-friction damped systems, 7A209
- Role of thermoelectric heat transfer in the design of SMA actuators: Theoretical modeling and experiment, 7A1239
- Experimentally-validated damage detection theory in smart structures, 10A884
- Dynamic crack growth in TDCB specimens, 12A766
WANG, Y-Z: Crack interaction, coalescence, and mixed-mode fracture mechanics, 8A670
- Crack interaction, coalescence and mixed-mode fracture mechanics, 10A814
- Further observations of early fatigue crack development, 11A644
WANG, YAN: Photoelastic behavior of optically heterogeneous fiber composites - I: The equivalence of birefringence in optically heterogeneous unidirectional fiber composites, 2A454
- Photoelastic behavior of optically heterogeneous fiber composites - II: The principal direction of the equivalent birefringence for optically heterogeneous unidirectional fiber composites, 2A455
WANG, YANYING: Calculation of ship flow in viscous fluid with free-surface effect (Chinese), 8A1004
- Corrected Prohaska method for determining hull form factor (Chinese), 8A1001
- Prediction of propulsive power for ships with homogeneous hull and high speed (Chinese), 11A1014
WANG, YANZHUO: Performance enhancement methods for unstable bank-to-turn missiles with saturating actuators, 10A434
WANG, YAO HUA: Theory and practice of "spontaneous protective layer" in soil cutting, 5A557
WANG, YAPING: Study of the solid modeling techniques adaptive to product modeling, 6T372
WANG, YARLONG: Note on the solution to the diffusion equation, 12A1250
WANG, YC: Steel frames in fire: Analysis, 2A786
- Behavior of steel frames subject to fire, 5A718
WANG, YH: Bimaterial interface cracks originating from holes, 4T875
WANG, YI-BIN: Three-dimensional asymptotic FEM for anisotropic inhomogeneous and laminated plates, 8A494
WANG, YISUN: Researches on vibrational model and dynamic behaviors of combined foundations (Chinese), 4A608
WANG, YJ: Oblique scattering of an elastic wave from a multilayered cylinder in a solid: Transfer matrix approach, 10A266
WANG, YONGJING: Vibration control of a ropeway carrier by passive dynamic vibration absorbers, 6A173
WANG, YONGQIANG: Twinning-induced stress concentrations in polycrystalline solids, 9A796
WANG, YOUCHENG: Stress rate integral equations of elastoplasticity, 10A552
WANG, YOUJIANG: Properties of composite laminates reinforced with E-glass multiaxial non-crimp fabrics, 6A440
WANG, YQ: Geometric mapping of yarn structures due to shape change in 3D braided composites, 3A498
- Vertical load-deflection behavior of a pneumatic tire subjected to slip and camber angles, 7A978

WANG, YU: Dynamics of unsymmetric piecewise-linear and nonlinear systems using FEs in time, 1A114
WANG, YU-FANG: Influence of gear errors on acceleration noise from spur gears, 10A365
WANG, YUAN: Smooth converse lyapunov theorem for robust stability, 7A372
WANG, YUANGONG: Three-dimensional axisymmetric analysis of a cracked fiber in a transversely-isotropic elastic medium, 8A456
WANG, YUE-SHENG: Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - I: P and SV cases, 11A181
- Scattering of elastic waves by a rigid cylindrical inclusion partially debonded from its surrounding matrix - I: SH case, 11A180
WANG, YUEFANG: Layout optimization of truss structures with discrete sizing variables (Chinese), 8A768
- Shape optimization designs of trusses with discrete variables (Chinese), 8A723
WANG, YUNG-MING: Three-dimensional asymptotic FEM for anisotropic inhomogeneous and laminated plates, 8A494
WANG, YUSHU: Effects of operating parameters and environment on the wear and wear transition of alumina, 12A902
- Wear and wear transition modeling of ceramics, 12A917
- Wear and wear transition mechansims of ceramics, 12A916
WANG, YY: Detection of flaws in sandwich plates, 12A792
WANG, YZ: Vibration analysis and diagnosis of a cracked shaft, 11A151
WANG, Z: Consideration of optimum conditions for surface smoothing based on lubricating mechanisms in ironing process, 5A562
- Detailed measurments of local heat transfer coefficient in the entrance to normal and inclined film cooling holes, 11A1159
- Practical algorithm for the efficient computation of eigenvector sensitivities, 12A81
WANG, ZE-PING: Strain rate effect on representative volume element with penny-shaped crack under dynamic loading, 2A670
- Dynamic damage and failure in visco-plastic materials, 4A750
- Approximate yield criterion for voided nonlinear materials, 11A447
WANG, ZHANJIE: Modeling of instantaneous temperature field in reactor (Chinese), 8A1165
WANG, ZHEN: Experimental evaluation of the strength distribution of E-glass fibers at high strain rates, 8A646
WANG, ZHENDONG: Nonlinear stability of plane Poiseuille flow for non-Newtonian power series fluid, 4A1061
- Analysis of stability of Bingham fluid flowing down an inclined plane, 6A984
WANG, ZHENGGANG: Study on the thermodynamic properties and dehydration reaction kinetics of some salt-hydrates, 1A1159
WANG, ZHIDAO: Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), 7A758
WANG, ZHRGANG: Investigation into relationship between friction behavior and plastic deformation using a newly devised rolling-type tribometer, 5A774
WANG, ZINGXIANG: Calculation of normal section strength of unbonded partially prestressed concrete beams with high strength concrete (Chinese), 9A928
WANG, ZL: Scattering of electromagnetic waves from a slightly random surface-reciprocal theorem, cross-polarization and backscattering enhancement, 3A564
WANG, ZM: Appraisal of the design rules in Eurocode 3 for bolted end-plate joints by comparison with experimental results, 11A770
WANG, ZQ: Calculation of dynamic stress intensity factors for a cracked thick-walled cylinder, 8A617
WANG, ZR: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22
- Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, 6A18
- Integral hydro-bulge forming of double-layer gap spherical vessels, 6A566
- Numerical simulations for extrusion and ironing and die-angle optimization, 6A558
- Sno-stress forming process, 6A548
- Stress analysis of two-arc approximate ellipsoidal pressure vessel heads and parameter optimization, 9A970
- Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, 12A10
- Effect of the hydrobulging process on mechanical properties of spherical pressure vessels, 12A870
WANG, ZY: Tool temperatures and crack development in milling cutters, 3A645
- Cryogenic PCBN turning of ceramic (Si_3N_4), 12A704
WANGSAWIDJAJA, RAS: Mixed fuzzy-probabilistic programming approach for multiobjective engineering optimization with random variables, 8A715
WANHEIM, T: Review of research into the injection forging of turbular materials, 3A606
WANIEWSKI, M: Tensorial constitutive equations for describing the anisotropic creep behavior of isotropic material after plastic prestrain (German), 5A457
- Experimental setup for tests under biaxial tension of anisotropic cruciform specimen, 10A843
WANNENBURG, J: Remaining life analysis for a pressure vessel subjected to cyclic loads based on fracture mechanics, 4A703
WANXIE, ZHONG: Rational FE (Chinese), 9A80
WANYOIKE, G: H_{∞} norm computation for LTV systems using nonlinear optimal control algorithms, 8T282
WAPENAAR, CPA: Inversion versus migration: A new perspective to an old discussion, 11A1374
- True-amplitude migration taking fine layering into account, 11A1379
WAPPEROM, P: Lower bound for the invariants of the configuration tensor for some well known differential models, 4A888
WAR, SB: Application of adsorption technique in the estimation of drift losses through the cooling towers, 11A1237
WARD, GN: Stability augmentation design of a large flexible transport using nonlinear parameter optimization, 8A1018
WARD, IM: Review of plasma treatment and the clinical application of polyethylene fibers to reinforcement of acrylic resins, 3A1411
- Anisotropic elasticity of oriented polyethylene materials, 5A417
- Analysis of the mechanics for drawing polyvinyl chloride tubes over an expanding mandrel, 9A699
- Constitutive law for large deformations of polymers at high temperatures, 12A1
WARD, MJ: Hybrid asymptotic-numerical method for low Reynolds number flows past a cylindrical body, 4A978
WARD, NJ: Design considerations for a blind spot detector, 8A325
WARD, SN: Area-based tests of long-term seismic hazard predictions, 3A1303
WARD-SMITH, AJ: Pressure drop and flow characteristics of wide-angle screened diffusers of large area ratio, 4T1043
WARDA, B: Correction of the roller generators in spherical roller bearings, 10A1007
WARDA, BJ: Influence of roughness faces, ways of lapping and lubricant viscosity on friction characteristics (Polish), 6A785
WARDENIER, J: New guidelines for fatigue design of HSS connections, 7A926
WARDI, S: Numerical analysis of a FEM for a transient viscoelastic flow, 1A485
WARK JR, K: Advanced Thermodynamics for Engineers, 4R30
WARKENTIN, A: Five-axis milling of spherical surfaces, 4A637
- Variable stiffness control of a single-link flexible robotic arm, 4A405
WARMINSKI, J: Nonlinear vibrations of parametrically self-excited system with two dof, 1A97
- Self-excited system vibrations with parametric and external excitations, 4A132
WARN, K: Boiling inception in falling films of binary mixtures, 6A1107
WARNATZ, J: Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation, 9R24
- Simulation of the behavior of rich hydrogen-air flames near the flammability limit, 2A1179
WARNE, PG: Solutions of an infinite compressible nonlinearly elastic body under a line load, 11A417
WARNER, DD: Adaptive dynamic relaxation algorithm for nonlinear hyperelastic structures - Part III: Parallel implementation, 4A249
WARNER, RF: Model formulations for numerical creep calculations for concrete, 8A596
WARNET, L: Thermally-induced shapes of unsymmetric laminates, 10A1341
WARNITCHAI, P: Nonlinear dynamic model for cables and its application to a cable-structure system, 4A164
WARREN, BA: Developing lengths in horizontal two-phase bubbly flow, 5A917
WARREN, DL: Observations of flame behavior from a practical fuel injector using gaseous fuel in a technology computor, 5A1240
WARREN, G: Constitutive convolution and graph theoretical representations of thermodynamic processes: Thermal conduction, 3A1098
WARREN, J: Fiber damage during the consolidation of PVD Ti-6Al-4V coated Nextel 610™ alumina fibers, 2A649
WARREN, JA: Ostwald ripening and coalescence of a binary alloy in 2D using a phase-field model, 11A899
WARREN, PD: Mechanics of Hertzian cracking, 5A614
WARREN, R: Multistage integration model for human egomotion perception, 3A1412
WARREN, SR: Robust control of a slewing beam system, 1A414
WARREN, TL: Fractal model for the rigid-perfectly plastic contact of rough surfaces, 9A506
WARRICK, AW: Unsaturated water flow around obstructions simulated by 2D Rankine bodies, 4A1303
WARRICK, RE: Improved air-powered impulsive shear-wave source, 11A1387
WARSHAW, GD: Sampled-data robot adaptive control with stabilizing compensation, 7A451
WARSI, S: Computational pollutant environment assessment from propulsion-system testing, 12A1331
WARTAK, MS: Characterization of effective masses and optical gain in strained quantum-well lasers, 6T307
WARUI, HM: Feedback control of vortex shedding from a circular cylinder by cross-flow cylinder oscillations, 12A1135
WARWICK, K: Use of artificial intelligence in self-tuning PID controllers, 5A327
- Self-organizing neural networks for adaptive control, 9A407
WARZEE, G: High-performance PCG solvers for FEM structural analysis, 10A18
WASANTHA LAL, AM: Calibration of riverbed roughness, 1T980
WASFY, TM: Torsional spring-like beam element for the dynamic analysis of flexible multibody systems, 9A85
WASHINGTON, D: Experimental study of compressible countercurrent turbulent shear layer, 9A1163
WASHIO, S: Measurement of transiently changing flow rates in oil hydraulic column separation, 7T1189
WASIK, D: Hydrostatic pressure study of MBE CdMnTe doped with bromine, 6A517
WASILCZUK, M: Method of friction torque measurement for a hydrodynamic thrust bearing, 5A1094
WASSEF, WG: Service load test of 1:3 scale shell bridge model, 7A966
WASSELL, RW: Thermal expansion of composites, 4A1235
WASSGREN, CR: Vertical oscillation of a bed of granular material, 9A1348
WASTI, ST: Simple FE for beams on elastic foundations, 5A36
WASZCZUK, T: Measurement technique of shock wave pulses at extremely high pressures, 9A394
WASZCZYSZYN, Z: Stability of Structures by FEM, 2R22
WATABE , Y: Stabilities of piled bridge abutments in soft clay subjected to backfill loading (Japanese), 7A708
WATABE, Y: Centrifuge model tests on interaction between soft clay and piled bridge abutments subjected to backfill loading (Japanese), 4A623
WATADA, Y: Elastic-plastic hysteresis analysis of truss structures subject to fluctuating loads based on energy principle (Japanese), 1A915
WATANABE, C: Buckling analysis of thin-walled structures by finite node-strip method (Japanese), 5A539
WATANABE, E: Elasto-plastic analysis with constitutive relation based on fuzzy reasoning, 1A3
- Wave response analysis of a flexible floating structure by a simple beam model (Japanese), 5A150
- Eigenfunction expansion-matching method for analyzing the wave-induced responses of an elastic floating plate, 11A213
- Fatigue behavior on split tee flange joints (Japanese), 11A831
- Knowledge acquisition support method in durability evaluation of RC bridge deck using genetic algorithms and neural network (Japanese), 11A776
WATANABE, F: Stress transfer mechanism of socket base connections with precast concrete columns, 11A763
WATANABE, H: Pneumatic assist device for gait restoration, 9A1464
WATANABE, K: Elastoplastic branched analysis for an interface crack based on crack energy density, 1A794
- Application of genetic algorithms to stiffness optimization of laminated composite plates with stress-concentrated open holes, 3A751
- Modification and damping of Alfven waves in a magnetized dusty plasma, 3A980
- Three-strip yield model in mixed-mode fracture, 4A716
- Weldability of neutron-irradiated type 316 stainless steel, 11A840
WATANABE, M: Terminal velocity of rapid crack propagation, 9A843
- General characteristics of two-phase flow distribution in a multipass tube, 9A1257
- Autonomous driving of multiple AGVs for FMS by use of SLA (Japanese), 9A449
WATANABE, N: Stress and failure analysis for cross-plied curved composite laminates, 4T510
WATANABE, O: Effects of hypoelastic model and plastic hardening on numerical simulation: Shear deformation of 2D plane block, 3A463
- Study on accuracy of FE solutions in elastoplastic large deformation: Effects of shape function and numerical integration, and application of mixed method, 7A25
WATANABE, S: Generation of a vortex ring with high Reynolds number by an exploding wire in water, 3A913
- Amorphous state formation and structural changes in α alumina by repeated rubbing, 4A837
- Study on the motion errors of NC surface grinding machine: Static accuracies versus circular motion errors (Japanese), 5A579
- Formation process of a vortex ring by an exploding wire in water, 8A913
- Study on the motion errors of NC surface grinding machine: Method for measuring the motion errors under the circular interpolation, 9A716
- Impact of a vortex ring on a wall in high Reynolds number region, 10A1066
WATANABE, T: Visualization of solidification process in kinetics control system with interferometry, 1A1263
- Improvement in accuracy of seismic traveltime tomography by adding a priori information as constraints on velocity reconstruction (Japanese), 1A1379
- Fabrication of micro shape by trans replica and plating technique (Japanese), 4T656
- Experimental study on seismic responses of piping systems with friction - Part 1: Large-scale shaking table vibration test, 5A1320
- Vapor condensation behind a shock wave propagating through a large molecular-mass medium, 7T283
- Instability of laminar natural convection boundary layer flow on a vertical porous flat plate, 12A1141
WATANABE, Y: Man-machine-system model of a car platoon leader departing from a signaled intersection (Japanese), 9A1460
- Basic study on a noise barrier for reduction of wind load (Japanese), 9A1431
WATERHOUSE, DD: Multi-mode resonances in fluids, 11A211
WATERS, ND: Use of interferometry of measure flow characteristics of an oscillating draining film, 12A1037
WATERS, TP: Modified surface spline for expansion and smoothing of frequency response functions, 8A139
WATHEN, AJ: Convergence rates and classification for 1D FE meshes, 6A6
WATKINS, AP: Modeling of turbulent flow through intake systems of internal combustion engines: Large valve lifts, 8A953
WATKINS, RAM: Comparison between cube strengths and *in situ* concrete strength devvlopment, 11A748
WATKINS, S: Investigation of the loads on truck cabin aerodynamic devices, 7A976
WATKINS, SA: Measurements of the performance of an acoustical calibration duct, 1A363
WATKINS, TR: Surface residual stresses in machined austenitic stainless steel, 12A693
WATKINS, WJ: Hybrid parallel computation of transcendental structural eigenvalues, 4A227
- Efficient parallel solution of structural eigenvalue problems, 12A210
WATREMEZ, P: Local multigrid refinement method for natural convection in fissured porous media, 5A1152
WATSON, AJ: Structures Under Shock and Impact IV - Proc of 4th Int Conf, Udine, Italy, July 1996, 11N17
WATSON, AS: Manipulation of engineering design calculations by a calculation processing system - I: Theory, 1A949
WATSON, B: Case studies in dynamic modeling of large-scale wastewater treatment plants, 11A1448
WATSON, BC: Nonlinear structural analysis on distributed-memory computers, 3A561
- Sensitivity analysis for large-deflection and post-buckling responses on distributed-memory computers, 10A641
WATSON, EJ: Slow viscous flow past two rotating cylinders, 11A888
WATSON, JF: Analysis of the fatigue failure of tee pieces forming part of a header in a descaling system in a hot strip rolling mill, 10A741
WATSON, LT: Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing - Proc in Applied Mathematics 75, 11N9
- Improved genetic algorithm for the design of stiffened composite panels, 4A557
- Derivative based approximation for predicting the effect of changes in laminate stacking sequence, 12A810
WATSON, P: Upstream migration of heat during combined convection in a horizontal parallel plate duct, 4T1161
WATSON, R: Experimental and numerical investigation of post-CHF heat transfer for one-sided heat load with highly sub-cooled flow boiling, 12A1229
WATSON, WR: Validation of a numerical method for extracting liner impedance, 8A105
WATT, DF: Finite element analysis of plastic relaxation and plastic accumulation at second phase particles, 6A14
- Effects of particle morphology and spacing on the strain fields in a plastically deforming matrix, 6A416
WATT, DW: Study of the pressure distribution on an aircraft tire-wheel interface, 2A794

WATT, SD: Accurate dynamic modeling of contaminant dispersion in channels, 1A1301
WATTERS, JF: Fracture of cold-worked Zr-2.5Nb pressure tubes fabricated from 100% recycled material, 1A1416
WATTON, J: Self-organizing neural network approach to data-based modeling of fluid power systems dynamics using the GMDH algorithm, 6A343
- Approach for the synthesis of oil hydraulic transmission line dynamics utilizing in situ measurements, 12A420
WATTS, E: US and Russian thermal control coating results in low Earth orbit, 7A992
WATTS, GR: Acoustic performance of a multiple edge noise barrier profile at motorway sites, 6A251
- Acoustic performance of parallel traffic noise barriers, 9A355
- Perception of exterior noise from traffic running on concrete and bituminous road surfacings, 10A363
WATTS, RJ: Sedimentation and reuse of titanium dioxide: Application to suspended-photocatalyst reactors, 2T1283
WAUER, J: Vibrating cylinder in a cylindrical duct filled with an incompressible fluid of low viscosity, 5A219
- Fluid-structural coupling of vibrating bodies in a surrounding confined liquid, 8A219
WAUGAMAN, DG: Alternative desiccant cooling cycle, 3A1157
WAUTERS, P: Influence of turbulence on the fluid velocity measurement from a vane anemometer (French), 10A1236
WAWZYNIAK, M: Experimental study of electrohydrodynamically augmented condensation heat transfer on a smooth and an enhanced tube, 11T1174
WAY, TR: Effects of reduced inflation pressure on soil-tire interface stresses and soil strength, 2A792
WAYNER JR, PC: Adsorption model for the superheat at the critical heat flux, 3T1079
- Shape of an evaporating completely wetting extended meniscus, 10A1281
WAZ, P: Normal terms of Hamiltonian systems, 10A119
WAZWAZ, AM: Two methods for solving integral equations, 11A72
- Solution of a partial differential equation arising in fluid flow theory, 12A1032
WEAR, KA: Measurements of ultrasonic backscatter coefficients in human liver and kindey *in vivo*, 3A273
WEARING , JL: Analysis of plate bending problems using the regular direct BEM, 8A487
WEARING, JL: Development of the Trefftzian methodology for engineering design analysis, 5A58
WEATHERILL, NP: Unstructured grid generation using iterative point insertion and local reconnection, 2A899
- Procedure for efficient generation of solution adapted unstructured grids, 4A65
WEAVER JR, L: Dynamics and control of electrostatic structures, 12A403
WEAVER, CS: Tectonics and seismicity of the southern Washington Cascade range, 11A1336
WEAVER, DS: Fluidelastic instability in a tube array subjected to two-phase R-11 cross-flow, 3A226
WEAVER, RL: Ultrasonic radiative transfer in polycrystalline media: Effects of a fluid-solid interface, 3A267
- Leaky Rayleigh wave scattering from elastic media with random microstructures, 6A209
- Coupling and attenuation of waves in plates by randomly distributed attached impedances, 9A251
- Transient elastic waves in a transversely isotropic plate, 12A215
WEBB , DC: Use of FEM as an effective teaching tool and as a flexible aid in the simulation of manufacturing processes and multiple rigid-body collisions, 7A26
WEBB, BW: Spectral-line weighted-sum-of-gray-gases model for H_2O/CO_2 mixtures, 3T1133
WEBB, JE: R-curve and subcritical crack growth behavior at elevated temperatures in coarse grain alumina, 11A627
WEBB, R-L: Condensation of R-12 in small hydraulic diameter extruded aluminum tubes with and without microfins, 5A1162
- Friction pressure drop of R-12 in small hydraulic diameter extruded aluminum tubes with and without micro-fins, 5A914
WEBB, RL: Advanced micro-fin tubes for evaporation, 8A1144
- Steam condensation on horizontal integral-fin tubes of low thermal conductivity, 8A1139
- Advanced micro-fin tubes for condensation, 8A1141
WEBBER, JPH: Application of artificial neural networks for the optimum design of a laminated plate, 9A881
WEBBER, RL: Change in trabecular architecture as measured by fractal dimension, 10A1461
WEBBON, BW: Dynamics of vapor bubbles in nucleate boiling, 11A1161
WEBER, CH: High temperature deformation and fracture of a fiber reinforced titanium matrix composite, 6A668
WEBER, JL: Reinforcement percentage effects on bending strength of soil-ice mixtures, 1A698
WEBER, LJ: Fracture toughness of freshwater ice - Part II: Analysis and micrography, 11A697
- Fracture toughness of freshwater ice - Part I: Experimental technique and results, 11A696
WEBER, M: Analysis of asymmetric multipathing with a generalization of the double-beam method, 12A1364
WEBER, R: Mathematical modeling of swirling flames of pulverized coal: What can combustion engineers expect from modeling, 1A1335
WEBERG, EB: Friction force microscopy as a probe of molecular relaxation on polymer surfaces, 4A847
WEBERG, RT: Friction force microscopy as a probe of molecular relaxation on polymer surfaces, 4A847
WEBSTER, CAG: Use of images in a language- and culture-independent expert system for diagnosing pressure die-casting defects, 7A418
WEBSTER, MF: Computation of 2D and 3D unsteady thermal non-Newtonian flows, 1A1209
- Simulation of highly elastic complex flows, 2A363
- Two- and three-dimensional expansion flows, 4A1045
WEBSTER, R: Algebraic multigrid solver for Navier-Stokes problems in the discrete second-order approximation, 11A45
WECHARATANA, M: Interface Fracture and Bond, 8N16
WECKMAN, EJ: Experimental investigation of the turbulence structure of medium-scale methanol pool fires, 10A1362
WEDEKIND, GL: Experimental investigation into forced, natural and combined forced and natural convective heat transfer from stationary isothermal circular disks, 2A1082
- Analysis for the optimal performance of three-channel split-flow heat exchangers, 5A1177
- Predicting the average heat transfer coefficient for an isothermal vertical circular disk with assisting and opposing combined forced and natural convection, 11T1135
- Modeling the local and average heat transfer coefficient for an isothermal vertical flat plate with assisting and opposing combined forced and natural convection, 11A1134
WEDEWARD, K: New results on adaptive impedance control for dexterous manipulators, 10A487
WEDRYCHOWICZ, S: Dynamics of structural systems with spatial randomness, 8A95
WEE, LIANG-BOON: Nonlinear autopilot design for bank-to-turn steering of a flight vehicle, 12T408
WEE, TH: Stress-strain relationship of high-strength concrete in compression, 11A473
WEERTMAN, J: Dislocation Based Fracture Mechanics, 12R14
WEESE, J: Comparision of sphere-size distributions obtained from rheology and transmission electron microscopy in PMMA-PS blends, 4A904
- New ill-posed problems in rheology, 10A1039
WEGNER, JL: Plane harmonic waves for three thermoelastic theories, 9A1277
WEGRIA, J: Comparison of fibers for creep strengthening of zinc-aluminum foundry alloys, 1A537
WEHE , SD: Comparison of planar fluorescence measurements and computational modeling of shock-layer flow, 8A1049
WEI , ZHAOZHENG: Formulation of hybrid shell element by using subregion variational principal (Chinese), 9A76
WEI, B: Nanoscale indentation hardness and wear characterization of hydrogenated carbon thin films, 5T787
WEI, C: Manufacture of polyphenylene sulfide matrix composites via the powder impregnation route, 4A948
WEI, DEMIN: Catastrophe analysis on the stability of the crack growth in three-point bending specimens, 12A741
WEI, DENG: Singularities and explicit solutions of collinear crack problem in anisotropic media, 1A827
WEI, FU-SHANG: Computation of eigenvector derivatives with repeated eigenvalues using a complete modal space, 2T88
WEI, GUOQIANG: Research on principle of slow-scanning controlled electrochemical honing of gears (Chinese), 7A745
WEI, HSIEN MIN: General approach to the determination of planar and spatial cam profiles, 12A951
WEI, HUA TAI: Computer simulation of plastic damage evolution in cracked body of low-carbon steel, 10A781
WEI, JIAQUAN: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820
WEI, LIANGYAN: Sediment-laden flow in open channels from two-phase flow viewpoint, 2A862
WEI, LU: Strength analysis and optimization for both the cylinder and the anvil of a BELT-type ultra-high-pressure apparatus by FEM, 6A18
WEI, PS: Contact melting by a non-isothermal heating surface of arbitary shape, 2A1130
WEI, RONG-JUE: Decay of soliton in small blood artery, 10A1479
WEI, RP: Conventional K calibration equations for single-edge-cracked tension specimens, 10A834
WEI, RUNYI: Robust adaptive stabilization of a class of systems under structured nonlinear perturbations with application to interconnected systems, 8T265
WEI, S: Performance of new sandwich tube under axial loading: Experiment, 6A501
- Performance of new sandwich tube under axial loading: Analysis, 6A502
WEI, SHYY: Multi-zone simulation of the Bridgman growth process of β-NiAl crystal, 10A1304
WEI, T: Separated and Complex Flows - 1995 ASME/JSME Fluids Engin Conf, 2N46
- Unsteady Flows - 1995 ASME/JSME Fluids Eng Conf, 2N48
- Three-dimensional reconstruction of coherent structures using image processing techniques, 4T1083
WEI, X: Numerical calculation of 2D effective moduli for microcracked solids, 8A388
WEI, YANG: Mechanical property of constraint, 7A83
- Interaction of plane SH-waves and circular cavity surfaced with lining in anisotropic media, 8A175
WEI, YINGCHANG: Grain multiplication mechanism for the formation of transition zones in first year sea ice, 3A1393
WEI, YUEGUANG: Fracture criterion based on the higher-order asymptotic fields, 6A688
WEI, Z: Consistent linearization for the exact stress update of Prandtl-Reuss non-hardening elastoplastic models, 9A518
WEI, ZHONGXIN: Fuzzy Petri net for fault diagnosis, 7A421
WEI, ZZ: Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, 8A20
WEIBUST, E: Effects due to initial perturbations on the modeling of vortex shedding from a bluff body in a laminar flow, 12A1034
WEICHERT, D: Comparative study of vibrations of elasto-viscoplastic shells and plates, 1A148
- Prediction of railway disc brake temperatures taking the bearing surface variations into account, 6A1115
WEICHOLD, MH: Fabrication of vapor-deposited micro heat pipe arrays as an integral part of semiconductor devices, 5T349
WEICK, BL: Tribological and dynamic behavior of alternative magnetic tape substrates, 5A804
WEIDENAAR, WA: Tension-compression fatique behavior of fiber-reinforced ceramic matrix composite with circular hole, 1A761
WEIGAND, A: Turbulent vortex ring-free surface interaction, 5A879
- Simultaneous mapping of the velocity and deformation field at a free surface, 9A1075
WEIGAND, B: Exact analytical solution for the extended turbulent Graetz problem with Dirichlet wall boundary conditions for pipe and channel flows, 8A1070
WEIHS, TP: Atomic force microscope measurements of the hardness and elasticity of peritubular and intertubular human dentin, 9A1441
WEILER, C: Comparison of two avalanche-models with exemplary avalanches of Tyrol and Switzerland and the effects to hazard zoning, 3A1389
WEILMUENSTER, KJ: Mars Pathfinder six-dof entry analysis, 5A239
- Experimental and computational analysis of shuttle orbiter hypersonic trim anomaly, 5A745
- Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics, 10A330
WEINBAUM, S: Case for bone canaliculi as the anatomical site of strain generated potentials, 2A1285
WEINERFELT, PA: Coarse grid correction scheme for implicit multiblock Euler calculations, 3A920
WEINERT, M: Parallel decomposition algorithm in application to structural design, 12A825
WEINGARTEN, VI: Matrix profile and wavefront reduction based on the graph theory and wavefront minimization, 9A62
WEINSTEIN, EM: Van Kampen expansion for linked Duffing-linear oscillators excited by colored noise, 10A62
WEINSTEIN, M: Geometric influence of a molded part on the draw direction range and parting line locations, 8A547
- Finite-amplitude patterns of convection in a rectangular-planform container, 12A1042
WEIR, DJ: Reverse engineering physical models employing wrap-around B-spline surfaces and quadrics, 10A508
WEIR, GJ: Reservoir storage and containment of greenhouse gases, 10A1417
- Reservoir storage and containment of greenhouse gases - II: Vapor-entry pressures, 10A1418
WEIR, TD: Quantitative visualization of a submerged pseudoplastic jet using particle image velocimetry, 5A953
WEISENBORN , AJ: Oseen drag at infinite Reynolds number, 2A886
WEISENSTEIN, W: Catalytic stabilization of lean premixed combustion: Method for improving NO_x emissions, 10A1363
WEISGERBER, FE: Torsion constant for matrix analysis of structures including warping effect, 4A785
WEISMAN, RN: Head requirement for incipient fluidization of fine sands in unbounded domains, 3A926
WEISS, B: Experimental K-calibration for corner cracks under bending loading, 6A640
- Model for crack closure, 8A610
WEISS, G: Conditions for robustness and nonrobustness of the stability of feedback systems with respect to small delays in the feedback loop, 8T263
WEISS, JM: Preconditioning applied to variable and constant density flows, 4A998
WEISS, MH: Effects of flow pulsation on a single-rotor turbine meter, 9A1248
WEISS, NO: Nonlinear compressible magnetoconvection - Part 3: Traveling waves in a horizontal field, 4A1094
- Double-diffusive convection with two stabilizing gradients: Strange consequences of magnetic buoyancy, 4A1244
- Compressible magnetoconvection in 3D: Planforms and nonlinear behavior, 6A1003
WEISS, S: X-31A system identification using single-surface excitation at high angles of attack, 11A1032
WEISSERT, I: Experimental and numerical study of orifice discharge coefficients in high-speed rotating disks, 11A894
WEISSHAAR, TA: Optimal sizing and placement of piezo-actuators for active flutter suppression, 11A739
WEISSLER, FB: Unstable simple modes of the nonlinear string, 11T112
WEITSMAN, YJ: Can the compressive response of fiber-reinforced composites be modeled by means of layered arrays?, 11A476
WEIZSACKER, HW: Large strain analysis of soft biological membranes: Formulation and FE analysis, 12A1467
WEIß , E: Linear and nonlinear FE analyses of pipe bends, 9A33
WELCH, AJ: Creep buckling of thin-walled polymeric pipe linings subject to external groundwater pressure, 5A533
WELCH, SWJ: Local simulation of two-phase flows including interface tracking with mass transfer, 2T1173
WELLEIN, R: Leak-before-break behavior of nuclear piping systems, 1A1413
WELLER, SR: Controller design for partial decoupling of linear multivariable systems, 8A300
WELLER, T: Simple model of a stiffened shell-type structure for an investigation into the vibration-buckling correlation, 12A174
WELLER, WH: Fuselage state feedback for aeromechanical stability augmentation of a bearingless main rotor, 10A437
WELLS, AJ: Comparison of the bionic, fractal and holonic manufacturing system concepts, 10A499
WELLS, RO: Conditioning of numerical boundary measures in wavelet Galerkin methods, 11A62
WELSCH, G: Analysis of closed cell metal composites, 9A557
WELSH, M: Vortex wakes and jets, 7A1106
WELSH, MC: Three-dimensional vortex structures in a cylinder wake, 10A1156
WELT, F: Control of wind-induced instabilities through application of nutation dampers: A brief overview, 4A214
WELTY, JR: Measurement and use of bi-directional reflectance, 7A1261
- Parametric study of radiative heat transfer in arrays of fixed discrete surfaces, 8T1175
- Monte Carlo simulation of radiative heat transfer in arrays of fixed discrete surfaces using cell-to-cell photon transport, 11A1214
- Comparison of experiment with Monte Carlo simulations on a reflective gap using a detailed surface properties model, 11A1207
WEN , GONGBI: Three dimensional convective-diffusive model for the transportation of macromolecules and water across the arterial wall, 3A1405
WEN , SHIZHU: New Method for measuring the film thickness of mixed lubrication in line contacts, 2A1062
- Thin film lubrication - Part I: Study on the transition between EHL and thin film lubrication using a relative optical interference intensity technique, 12A1193
WEN , XUANLING: Buckling of elliptical delamination for symmetrical composite laminate subjected to complex load (Chinese), 9A636
WEN, C-Y: Non-equilibrium dissociating flow over spheres, 2A908
WEN, CHANGYUN: Systematic design of robust controllers for nonlinear uncertain systems, 2T243
- Robust adaptive tracking using the internal model principle, 11A298
WEN, H-M: Low-velocity perforation of punch-impact-loaded metal plates, 10A277
WEN, HE-MING: Deformation and tearing of clamped work-hardening beams subjected to impulsive loading, 9A570
WEN, HM: Failure maps of clamped beams under impulsive loading, 3A119
WEN, HUANG: Geometric nonlinear analysis of frame structures - II: 3D problem (Chinese), 9A30

WEN, JIANGANG: Mass transport of interfacial waves in a two-layer fluid system, 2A183
WEN, JT: Passivity motivated controller design for flexible structures, 11T332
WEN, K-L: Analysis of spectral ratios for estimating ground motion in deep basins, 12A1374
WEN, KUO-LIANG: P-wave amplification by near-surface deposits at different excitation levels, 3A1313
- Accuracy of soil response estimates using soil-to-rock spectral ratios, 11A1401
- Moderate-magnitude seismicity remotely triggered in the Taiwan region by large earthquakes around the Philippine Sea plate, 12A1360
WEN, LIANG-CHI: Comparison of LCC solder joint life predictions with experimental data, 3A863
WEN, MAO-YU: Developing 3D laminar mixed convection in a circular tube inserted with longitudinal strips, 4A1158
WEN, PH: Approximate analysis of dynamic contact between crack surfaces, 5A665
- Indirect BEM for 3D dynamic fracture mechanics, 9A849
- Influence of elastic waves on dynamic stress intensity factors: 2D problems, 10A773
WEN, SHI-ZHU: Wettability, soil adhesion, abrasion and friction wear of PTFE (+ PPS) + Al_2O_3 composites, 11A806
WEN, SONGLIN: Uplift behavior of piles with enlarged base in sand (Japanese), 10A674
WEN, XIA: New telerobotic application: Remote laparoscopic surgery using satellites and optical fiber networks for data exchange, 11T400
WEN, XUANLING: Nonlinear thermal buckling for composite laminate with elliptical delamination (Chinese), 8A1224
WEN, Y-K: Response surface method for time-variant reliability analysis, 7A927
WEN, YI-KWEI: Crane load modeling, 7A920
WENBIN, HUANG: Geometric nonlinear analysis of frame structures - II: 3D problem (Chinese), 9A30
WENCHENG, CHEN: Lipschitz stability and almost periodicity in dynamical systems, 9T141
WENDLANDT, B: Reflection, refraction, transmission of acoustic waves by a T-junction in piecewise-continuous plate construction and radiation into fluid loading the plate, 12A287
WENDT, BJ: Expensive and effective five-hole probe rake, 2A1063
- Improving curved subsonic diffuser performance with vortex generators, 6A965
- Vortex ingestion in a diffusing S-duct inlet, 7A1168
WENDT, JF: Computational Fluid Dynamics: An Introduction, Second Edition, 8N1
WENDT, JOL: Mechanisms governing the formation and destruction of NO_x and other nitrogenous species in low NO_x coal combustion systems, 8A1257
WENG, A: Note on the matrix analysis of dual reciprocity BEM, 2A43
WENG, CC: Acoustic-emission Kaiser effect in fly-ash cement mortar under compression, 3A519
WENG, CHEN-KUO: Modeling of power plant dynamics and uncertainties for robust control synthesis, 11A341
WENG, CHENG-I: Deformation control of laminated composite plates containing piezoelectric layers under thermal loading, 1A554
WENG, GJ: Materials division diamond jubilee special issue, 5A631
- Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite, 9AR22
- Void growth and stress-strain relations of a class of viscoelastic porous materials, 10A532
- Orthotropic creep and complex moduli of a viscoelastic composite reinforced with aligned elliptic fibers, 12A551
WENG, IW: Identification of dynamic properties of isolated structures, 7A212
WENG, LING-CHIA: Modeling of jet-generated recirculating flows in a miniature combustor, 12A1312
WENG, WEN-LU: Thermodynamic performances of non-CFC working fluids in heat-pump cycles, 11A1088
WENG, WENSONG: Mixed spectral finite-difference (MSFD) model: Improved upper boundary conditions, 4A51
WENG, WING-KAI: Analysis of forces due to irregular waves exerted on a ship near a harbor entrance, 7A1047
WENG, YAN: Performance tests of a Benesh wind turbine rotor and a Savonius rotor, 12T1432
WENG, ZONGYI: Analysis of the post-buckling of laminated plates of symmetric cross-ply, 8A500
WENJUAN, H: Experimental investigation and theoretical analysis of large miter gates, 2A778
WENNERBERG, L: Site amplification at five locations in San Francisco, California: A comparison of S waves, codas, and microtremors, 12A1386
WENSING, PJW: Numerical simulation of blood flow in an artery with two successive bends, 12A1475
WENSTON, P: Multi-level bases for elliptic boundary value problems, 12T63
WENT, AC: Ballistic impact of fiber composite armours by fragment-simulating projectiles, 12A570
WENTORF, R: Automatic construction of 3D models in multiple scale analysis, 6A47
WENZEL, F: Two-dimensional velocity structure beneath northern Eurasia derived from the super long-range seismic profile quartz, 12A1391
WENZEL, U: Pool boiling heat transfer coefficients for binary mixtures of acetone, isopropanol, and water, 1A1228
- Heat transfer from a finned surface to boiling liquid mixtures, 1A1238
WEPFER, WJ: Jet impingement drying of a moist porous solid, 8A1205
WERCINSKI, PF: Mars sample return: A direct and minimum-risk design, 12A866
WERELLAGAMA, DRIB: Surface water pretreatment using floating media filter, 6T1303
WERESZCZAK, AA: Effect of cyclic loading on the creep performance of silicon nitride, 10A1394
WERN, CW: Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics, 10A575
WERNER, B: Remarks on period doubling in systems with symmetry, 1A102
WERNER, EA: Stress state in a moving rod suddenly elastically fixed at its trailing end, 2A166
WERNER, JH: Extended flame zone in the combustion of CH_3Cl, 3A1232
WERNER, P: Green's function approach to wave propagation and potential flow around obstacles in infinite cylindrical channels, 10A378
WERNEROWSKI, K: Asymptotic solution of acoustic nonlinear wave equation with friction, 1A344
WERNERT, P: Experimental and numerical investigations of dynamic stall on a pitching airfoil, 10A1200
WERSINGER, J-M: Doubling bifurcations of destroyed T^2 tori, 10A99
WESELY, ML: Z-less stratification under stable conditions, 2T1264
WESNOUSKY, SG: Earthquake size as a function of fault slip rate, 12A1358
- Surface faulting of the 1954 Fairview Peak (M_S 7.2) and Dixie Valley (M_S 6.8) earthquakes, central Nevada, 12A1388
WESOLOWSKI, Z: Discontinuity waves in a periodic layered medium, 2A157
- Trigonometrical representation of transfer matrix for layered elastic material, 9A268
- Differential equations of 1D solidification of molten alloy, 9A1266
WESSLING, FC: Gravitational effects on closed-cellular-foam microstructure, 10A329
WEST, AA: Experience of the application of intelligent control paradigms to real manufacturing processes, 6A367
WEST, GS: Comparison of two methods for direct measurement of sectional fluctuating lift on a circular cylinder, 7A1162
WEST, J: Simplified theory for de Ris flame over thick and thin fuel beds, 7A1308
WEST, M: Composite design methodology: Design of composite trails for the US Army's M198 Howitzer: A case study, 12A572
- Determination of the 50% probability zone for an acoustic source-locating system operating in the ground plane, 12A314
WEST, RL: Acoustic radiation prediction of a compressor housing from 3D experimental spatial dynamics modeling, 9A340
- Identification of energy sources and sinks in plates by means of a scanning laser Doppler vibrometer, 10A175
WESTBY, G: Study of print release process in solder paste printing, 3A867
WESTCOTT, M: Solar cars and variational problems equivalent to shortest paths, 8T290
WESTER, ECN: Statistical energy analysis of two edge-coupled rectangular plates: Ensemble averages, 12A168
WESTERGREN, B: Mathematics Handbook for Science and Engineering, 3N49
WESTERINK, JJ: Boundary conditions in shallow water models: An alternative implementation for FE codes, 9A39
WESTERLING, L: Influence of scale on the penetration of tungsten rods into steel-backed alumina targets, 9A281
WESTERSTROM, G: Method for continuous measurement of ice cover thickness, 3A580
WESTERWEEL, J: Measurement of fully-developed turbulent pipe flow with digital particle image velocimetry, 7A1130
WESTFALL, LJ: Large-displacement structural durability analyses of simple specimens emulating rocket chambers, 6A479
WESTMORELAND, PR: Thermochemical and chemical kinetic data for fluorinated hydrocarbons, 11A1286
WESTON, MW: Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis, 6A1345
WESTWOOD, EK: Simple coupled wedge mode propagation method, 1A315
WETTERGREN, TA: Homoclinic orbits in the dynamics of resonantly-driven coupled pendula, 10A81
WETTON, BTR: Stability analysis for the immersed fiber problem, 4A291
WEVERS, M: Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 2: Modeling of the interface effect, 1A816
- Interlaminar fracture toughness of CFRP influenced by fiber surface treatment - Part 1: Experimental results, 1A815
- Relation between the phase of the reflected ultrasound and the thickness of a thin layer placed on a solid halfspace, 11T252
WEYNA, S: Image of the energetic acoustic field in reduced parallelepiped room models, 9A361
WHALE, MD: Effect of aging and pressure on the specific hydraulic conductivity of the acetic wall, 8A1426
WHALEN, PP: Algebraic limitations on 2D hydrodynamics simulations, 8A904
WHALLEY, R: Monitoring and control of a retail food container filling machine, 4A424
WHARTON, D: Effect of debonding forces on bonded orthodontic brackets: FE study, 11A1480
WHEAR, FR: Technique for experimental acoustic modal analysis, 11A263
WHEAT, DL: Numerical techniques for predicting brittle failure of reinforced concrete planar structures, 2A759
WHEEL, MA: Geometrically versatile finite volume formulation for plane elastostatic stress analysis, 8A42
WHEELER, AA: Long-wave morphological instabilities in directional solidification, 5A1170
WHEELER, AJ: Introduction to Engineering Experimentation, 7R10
WHEELER, EK: Structure and rheology of wormlike micelles, 10A1048
WHEELER, JC: Scaling in buoyancy-driven turbulent premixed flames, 9A1316
WHEELER, M: Fuzzy driver on the handling track, 12A406
WHEELER, MF: A priori estimates for mixed FE approximations of second-order hyperbolic equations with absorbing boundary conditions, 10A22
WHEELER, TF: Thunderstorm III 4-megabertz burst-mode data acquisition system, 7A304
WHELAN, MP: Finite element analysis of a total knee replacement by using Gauss point contact constraints, 9A1463
WHELDON, A: Mathematical modeling of the thermal performance of a phase-change material store: Cooling cycle, 11A1240
WHELPDALE, D: RE (Ted) Munn - Founding editor: A mini-biography, 12A1422
WHITAKER, S: Momentum transfer at the boundary between a porous medium and a homogeneous fluid - II: Comparison with experiment, 1A1355
- Momentum transfer at the boundary between a porous medium and a homogeneous fluid - I: Theoretical development, 1A1354
- Transport in chemically and mechanically heterogeneous porous media - Part II: Comparison with numerical experiments for slightly compressible single-phase flow, 4T1318
- Transport in chemically and mechanically heterogeneous porous media - Part I: Theoretical development of region-averaged equations for slightly compressible single-phase flow, 4A1317
WHITCOMB, J: Effect of assumed tow architecture on predicted moduli and stresses in plain weave composites, 4A492
- Effect of various approximations on predicted progressive failure in plain weave composites, 7A830
WHITCOMB, JD: Three-dimensional failure analysis of plain weave textile composites using a global-local FEM, 12A760
WHITE , SP: Reservoir storage and containment of greenhouse gases - II: Vapor-entry pressures, 10A1418
WHITE III, AA: Optimization technique for the calculation of in-vitro 3D vertebral motion, 5A1394
WHITE, AB: VLF wave experiments in space using a modulated electron beam, 1A277
WHITE, B: Localization and mode conversion for elastic waves in randomly-layered media - I, 10A258
- Localization and mode conversion for elastic waves in randomly-layered media II, 10A257
WHITE, FM: Individual Papers in Fluids Engineering - 1995 ASME/JSME Fluids Eng Conf, 1N31
- New low-Reynolds-number k-e model for turbulent flow over smooth and rough surfaces, 12A1155
WHITE, G: Crack detection and measurement using laser pulse heating and thermal microscopy, 4T782
WHITE, JL: Talc-thermoplastic compounds: Particle orientation in flow and rheological properties, 8A1301
WHITE, KD: Probability distribution for peak stage on rivers affected by ice jams, 8A1402
WHITE, KR: Evaluation and testing of a fracture critical bridge, 6A768
WHITE, LB: Improved periodic spectral analysis with application to diesel vibration data, 5A292
WHITE, MD: Application of a finite difference-finite volume algorithm to solve Maxwell's equations in the time domain, 9T87
WHITE, MJ: Near-field computation for sound propagation above ground: Using complex image theory, 7A362
WHITE, MT: Application of interpolated cell mapping to an analysis of the Lorenz equations, 6A98
WHITE, MW: Nonlinear shear-wall analysis, 3A1332
WHITE, PR: Analysis of nonstationary signals using time-frequency methods, 8A68
WHITE, R: Computer model of major haemorrhage and resuscitation, 11A1463
WHITE, RA: Experimental verification of interference-free testing concept for vehicles with propulsive jets, 12A865
WHITE, RG: Reduction of vibrational power in periodically supported beams by use of a neutralizer, 4A224
- Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 1: Cheese-head bolts, 4A488
- Stresses around fasteners in composite structures in flexure and effects on fatigue damage initiation - Part 2: Countersunk bolts, 4A11
WHITE, RN: Implications of experiments on the seismic behavior of gravity load designed RC beam-to-column connections, 11A1404
WHITE, SP: Reservoir storage and containment of greenhouse gases, 10A1417
WHITE, SR: Staged curing of composite materials, 7A760
- Continuous curing process for thermoset polymer composites - Part 2: Experimental results for a graphite-epoxy laminate, 10A716
- Analysis of thick hollow composite beams under general loadings, 11A502
WHITE, TL: Heat transfer within a steel-reinforced porous concrete slab subjected to microwave heating, 3A1117
WHITEHEAD, JA: Thermohaline ocean processes and models, 2A1260
WHITEHOUSE, DJ: Dynamics and trackability of stylus systems, 10A502
WHITEHURST III, RB: Planar OH density and apparent temperature measurements in a supersonic combusting flow, 8A1063
WHITEMAN, C: Motions of a double pendulum, 8T69
WHITFIELD, DL: Multigrid algorithm for 3D incompressible high-reynolds number turbulent flows, 4A979
WHITING, AIM: Evolution of localized folding for a thin elastic layer in a softening visco-elastic medium, 10A639
WHITING, EE: Comparison of theory with atomic oxygen radiance data from a rocket flight, 3A992
- Atomic oxygen line shape measurement at 130 nm with Raman-shifted laser, 8A1048
WHITLEY, N: Determinate model of thrust-augmenting ejectors, 7A1074
WHITMAN, D: Solar and gas-driven absorption heat-pump systems, 7A1275
WHITTAKER, T: Near-optimal propulsion-system operation for an air-breathing launch vehicle, 5A749
WIBERG, N-E: Advances in Finite Element Technology - Theory and Engineering Applications of Computational Methods Series, Vol 2, 11N3
- Structural dynamic analysis by a time-discontinuous Galerkin FEM, 12A211
WICHERT, B: Development of a photo-voltaic pumping system using a brushless DC motor and helical rotor pump, 8A1384
WICHMAN, IS: Head-on quenching of a premixed flame by a cold wall, 5A1230
WICHUR, A: State of stress and displacement under the ring foundations executed over the contour of a deep excavation, 3A446
WICK, DC: Effects of sterilization treatments on adhesion of bone cells to titanium, 8A1408
WICKENS, AH: Railway vehicles with generic bogies capable of perfect steering, 12A413
- Static and dynamic instabilities of bogie railway vehicles with linkage steered wheelsets, 12A416
WICKERT, JA: Comments on measuring thin-film stresses using bi-layer micromachined beams, 6A345
WICKHAM, MJ: Integrating optimal experimental design into the design of a multi-axis load transducer, 5A850
WICYNSKI, K: Non-uniform adaptive meshing for global illumination, 1A76
WIDEBERG, J: Elastic stress and displacement distribution in an orthotropic multilayered system due to a concentrated load, 5A423
- Boundary element method based on the 3D elastostatic fundamental solution for the orthotropic multilayered space: Application to composite materials, 12A577
WIDERA, GEO: Determination of forward slip in H-beam rolling, 6A549
- Uncertainty analysis in quantitative risk assessment, 7A928
- Use of stress-strength model in determination of safety factor for pressure vessel design, 7A994
- Reliability factors and tightness of tube-to-tubesheet joints, 10A1036
WIDGER, IR: Swirl atomizers operating at high water pressure, 12A1089
WIDMAIER, MT: AVO correction for scalar waves in the case of a thinly layered reflector overburden, 8A1326

WIDMANN, F: Effect of augmented surfaces on two-phase flow instabilities in a horizontal system, 2A1109
WIE, B: Pole assignment for optimal regulators with a nonnegative definite weighting matrix, 12T356
WIE, BONG: Feedback control logic for spacecraft eigenaxis rotations under slew rate and control constraints, 4A373
- New approach to halo orbit determination and control, 8A318
WIECKOWSKI, Z: Finite deformation analysis of motion of granular material in a silo, 3A1251
WIEGHARDT, K: Splitting and cracking of elastic bodies, 6T635
WIELDERS, JDL: Strain distribution on rat medial gastrocnemius during passive stretch, 12A1458
WIENERS, C: Parallel Newton multigrid method for high-order FEs and its application to numerical existence proofs for elliptic boundary value equations, 10A21
WIERZBA, I: Thermodynamic analysis of the rich flammability limits of fuel-diluent mixtures in air, 5A1122
- Analytical examination of the combustion of a turbulent jet in an environment of air containing a premixed fuel or a diluent, 5A1249
- Effect of burner geometry on the blowout limits of jet diffusion flames in a co-flowing oxidizing stream, 12A1317
WIERZBA, P: Analytical examination of the combustion of a turbulent jet in an environment of air containing a premixed fuel or a diluent, 5A1249
WIERZBICKI, E: Length-scale effects in wave propagation and stability of elastic composites under finite deformations, 3A63
WIERZBICKI, T: Tension zone model of blanking and tearing of ductile metal plates, 6A554
- Rigid-plastic approximations for predicting plastic deformation of cylindrical shells subject to dynamic loading, 10A275
- Transient response of an impulsively-loaded plastic string on a plastic foundation, 11A449
WIERZCHOWSKI, K: Film flotation method applied to determine surface energy of coal wetted with flotation agents, 3A1354
WIESEL, WE: Optimal pole placement in time-dependent linear systems, 3A339
WIESEND, A: Influence of varying muscle forces on lumbar intradiscal pressure: An *in vitro* study, 8A1416
WIESNER, MR: Performance and cost modeling of ultrafiltration, 6T1306
WIEST, JM: Constitutive equations for polymeric liquids, 2A846
WIEZLAK, W: Aspects of simulation of the micro-climate between apparel and it's user, 6A1182
WIFI, AS: Current Advances in Mechanical Design and Production - VI - Proc of 6th Cairo Univ Int MDP Conf, Cairo, January 1996, 10N44
WIGGERT, DC: Proc of the ASME Fluids Engineering Division, FED-Vol 234 - 1995 Inst Mech Eng Congress and Expo, Nov 1995, San Francisco, 4N29
WIGGINS, S: Maximal effective diffusivity for time-periodic incompressible fluid flows, 7A1297
- Geometry and chaos near resonant equilibria of 3-DOF Hamilton systems, 8A84
WIGHTMAN, JP: Measurement of adhesion between carbon fibers and bismaleimide resins, 5A467
- Effects of sterilization treatments on adhesion of bone cells to titanium, 8A1408
- Surface characterization and adhesive bonding of toughened bismaloimide composites, 11A489
WIIN CHRISTENSEN, C: Blocking as a wave-wave interaction, 8T192
WIIN-NIELSEN, A: Blocking as a wave-wave interaction, 8T192
WIJEYSUNDERA, NE: Performance limits of absorption cycles with external heat-transfer irreversibilities, 5A1182
- Numerical simulation of the transient moisture transfer through porous insulation, 6A1191
- Estimation of collector performance parameters from daily system tests, 7A1392
- Effect of initial moisture distribution on the transient heat flow through wet porous insulations, 11A1224
WIJNEN, PAM: Real-time frequency determination of acoustic emission for different fracture mechanisms in carbon-epoxy composites, 7A890
WIKANDER, LO: Welding residual distortions in ring-stiffened pipes, 11A841
WIKLE, HC: Infrared sensing for on-line weld geometry monitoring and control, 5A385
WIKSWO JR, JP: Techniques for depth-selective, low-frequency eddy current analysis for SQUID-based NDT, 8A703
WIKTOR, PJ: On-orbit thruster calibration, 12T389
WILBY, JF: Aircraft interior noise, 8A247
WILCOX, DC: Perturbation Methods in the Computer Age, 1R6
WILCOX, GD: Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, 12A926
WILCZAK, JM: Pressure structure functions and spectra for locally isotropic turbulence, 1A1076
WILCZYNSKI, A: Computer simulation used for solid state diffusion investigations (Polish), 9A1297
WILCZYNSKI, AP: Predicting the properties of unidirectional fibrous composites with monotropic reinforcement, 5A469
WILD, PM: Experimental and computational assessment of windage losses in rotating machinery, 9A1239
WILDE, P: Nonlinear interaction of free vibrations of cylinder in water near a plane bottom, 1T137
- Experimental investigations of free vibrations of cylinder in water near a plane bottom, 3T901
WILDER, MC: Boundary-layer-tripping studies of compressible dynamic stall flow, 6A1017
- Phase-locked high-speed real-time interferometry system for large amplitude unsteady flows, 6A1058
- Formation and internal structure of coherent vortices in the wake of a pitching airfoil, 8A1020
WILFINGER, WW: Versatile fluid-mixing device for cell and tissue microgravity research applications, 7A306
WILHELM SSON, T: Data-parallel numerical methods in a weather forecast model, 6A1295
WILK, A: Diagnostics of high power toothed gears: A new proposal, 3A841
WILK, RD: Modeling the solar irradiation on flat plate collectors augmented with planar reflectors, 4A1354
WILKE, H: Interaction of traveling chemical waves with density driven hydrodynamic flows, 2A882
WILKE, H-J: Osteonal structure better predicts tensile strength of healing bone than volume fraction, 2A1286
- Influence of varying muscle forces on lumbar intradiscal pressure: An *in vitro* study, 8A1416
WILKEN, AC: Analysis of the photodiode boundary-layer transition indicator, 1A1045
WILKENS, RH: Acoustic lance: New *in situ* seafloor velocity profiles, 6A263
WILKERSON, HJ: Monitoring airplane takeoff performance: Prototype instrument with learning capability, 1A1115
WILKINSON, DS: Influence of a damage zone on high temperature crack growth in brittle materials, 3A711
WILKINSON, JS: Noninvasive continuous method of measuring blood volume during haemodialysis using optical techniques, 7T1412
WILKINSON, MC: Thermo-optical property degradation of irradiated spacecraft surfaces, 5A757
WILKS, G: Accurate numerical method for systems of differentio-integral equations associated with multiphase flow, 1A1041
- Mixed-convection laminar film condensation on a semi-infinite vertical plate, 4A1159
WILL, RW: Verification tests of automated robotic assembly of space truss structures, 1A923
WILLAIME, H: Exponents of the structure functions in a low temperature helium experiment, 11A1002
WILLE, SO: Adaptive unstructured tri-tree iterative solver for mixed FE formulation of the Stokes equations, 10A14
- Nonlinear adapted tri-tree multigrid solver for FE formulations of the Navier-Stokes equations, 11A25
- Local solution adapted Tri-Tree multigrid generator and iterative equation solver for mixed FE formulation of the Navier-Stokes equations, 12A1060
WILLENBACHER, N: Relaxation of concentrated polymer solutions, 10A1047
WILLETTS, GJ: Clamping the small intestine during surgery: Predicted and measured sealing forces, 2T1301
WILLHITE, PG: Computational and experimental investigation of F-A-18E sting support and afterbody distortion effects, 9A1233
WILLI, ML: Design and development of a direct injected, glow plug ignition-assisted, natural gas engine, 5A1272
WILLIAM, FA: Influences of flame-vortex interactions on formation of oxides of nitrogen in curved methane-air diffusion flamelets, 10A1361
WILLIAMS , DJ: Experience of the application of intelligent control paradigms to real manufacturing processes, 6A367
WILLIAMS JR, JH: Fundamentals of Applied Dynamics, 9R4
WILLIAMS, A: Implementation of a Generalized Cross Validation algorithm using deflation techniques for linear systems, 6A58
- Soot formation in shock-tube pyrolysis of toluene, toluene-methanol, toluene-ethanol, and toluene-oxygen mixtures, 7A1323
- NO_x formation in large-scale oxy-fuel flames, 8A1258
WILLIAMS, AN: Floating membrane breakwater, 8A221
WILLIAMS, BC: Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284
- Solid-based processes for the direct reduction of iron, 8A1374
- Techno-economic analysis of fuel conversion and power generation systems: The development of a portable chemical process simulator with capital cost and economic performance analysis capabilities, 8A1396
WILLIAMS, BM: Predicting and analyzing X-rays to measure propellant crack propagation speed, 8A686
WILLIAMS, EG: Imaging the sources on a cylindrical shell from far-field pressure measured on a semi-circle, 9A362
- Structural acoustics and active control of interior noise in a ribbed cylindrical shell, 12A298
WILLIAMS, FA: Autoignition of nonuniform mixtures in chambers of variable volume, 2A1175
- Asymptotic and numerical analysis of a premixed laminar nitrogen dioxide-hydrogen flame, 2A1181
- Influence of porosity and two-phase flow on diffusional-thermal instability of a deflagrating energetic material, 3A1221
- Nitramine deflagration: Reduced chemical mechanism for primary flame facilitating simplified asymptotic analysis, 8A238
- Application of rate-ratio asymptotics to the prediction of extinction for methanol droplet combustion, 10A1379
- Relationships between bifurcation and numerical analyses for ignition of hydrogen-air diffusion flames, 11A1273
- Acoustic-instability boundaries in liquid-propellant rockets: Theoretical explanation of empirical correlation, 11A1308
WILLIAMS, FT: Surface effects on deposits from jet fuels, 10A1374
WILLIAMS, FW: Calculation of eigenvectors with uniform accuracy, 1A125
- Wave propagation along longitudinally periodically supported or stiffened prismatic plate assemblies, 2A154
- Parallel computing for the high precision direct integration method, 4A86
- Propagation of non-stationary random waves along substructural chains, 4A242
- Hybrid parallel computation of transcendental structural eigenvalues, 4A227
- Postbuckling analysis of imperfect composite laminated plates on nonlinear elastic foundations, 5A534
- Investigation of the accuracy of the solution of the constrained substructuring method, 5A170
- Post-buckling analysis of imperfect laminated plates under combined axial and thermal loads, 7A650
- High precision direct integration scheme for analyzing structural nonstationary random responses (Chinese), 8A760
- High precision direct integration scheme for non-stationary random seismic responses of non-classically damped structures, 8A759
- Thermomechanical postbuckling analysis of imperfect laminated plates on two-parameter elastic foundations, 11A702
- Accelerated solutions for transcendental stiffness matrix eigenproblems, 12A141
- Efficient parallel solution of structural eigenvalue problems, 12A210
WILLIAMS, GC: Analysis and design of large diagonal bracing connections, 9A934
WILLIAMS, JA: Machining of sintered bronze, 4A638
WILLIAMS, JC: Interlaminar shear fatigue damage evolution of 2D carbon-carbon composites, 11A633
WILLIAMS, JF: Developments in the analysis of interacting cracks, 6A9
WILLIAMS, JG: Comments on mixed-mode fracture in adhesive joints, 10A807
- Dynamic crack growth in TDCB specimens, 12A766
WILLIAMS, JJR: Large eddy simulation of a symmetric trapezoidal channel at a Reynolds number of 430,000, 7T1046
WILLIAMS, JK: Effective properties for flow calculations, 4A1319
WILLIAMS, JM: Tectonics and seismicity of the southern Washington Cascade range, 11A1336
WILLIAMS, K: Vibrational modes of thick cylinders of finite length, 10A193
WILLIAMS, MJ: Kinetics of nitric oxide formation behind shock waves, 10A1098
WILLIAMS, P: Robustness of learning in the multi-layer perceptron, 9A406
WILLIAMS, PT: Incompressible computational fluid dynamics and the continuity-constraint method for the 3D Navier-Stokes equations, 8A909
WILLIAMS, RA: Origin of Crowley's Ridge, Northeastern Arkansas: Erosional remnant or tectonic uplift?, 2A1232
- Des-theory-based hybrid supervisory control system for manufacturing systems, 10A500
WILLIAMS, RE: Experiments in thermal spallation of various rocks, 8A1370
WILLIAMS, SA: Local behavior of solutions of Hamilton-Jacobi equations, 4T96
WILLIAMS, SD: Ablation analysis of the shuttle orbiter oxidation protected reinforced carbon-carbon, 1A1124
WILLIAMSON, CHK: Vortex dynamics in the cylinder wake, 6A974
WILLIAMSON, PR: Heat capacity of confined helium very near the lambda point, 7A302
WILLIAMSON, TA: HDPE geomembrane-geotextile interface shear strength, 8A533
WILLIFORD, RE: Matrix creep accommodation in diffusion controlled phase transformations, 6A390
WILLIS, JR: Dynamic weight functions for a moving crack - II: Shear loading, 1A587
- Effect of spatial distribution on the effective behavior of composite materials and cracked media, 4A728
- Effective relations for nonlinear dynamics of cracked solids, 6A681
- Micromechanics-based nonlocal constitutive equation and estimates of representative volume element size for elastic composites, 8A6
- Stationary diffusion in heterogeneous media, 12A1291
WILLIS, SL: Space shuttle liftoff pressure wave, 9A296
WILLMOTT, AJ: Simple model for unsteady buoyancy-driven abyssal circulation, 11T1414
WILLMS, NB: Mode shapes of the Helmholtz equation, 6A129
WILMOTH, RG: Parallel Monte Carlo simulation of 3D flow over a flat plate, 1A1017
- Blunt body rarefied wakes for Earth entry, 1A1015
WILMUT, MJ: Prewhitening for improved detection by matched-field processing in ice-ridging correlated noise, 3A303
WILSON, CJL: Effects of localized deformation on melting processes in ice, 11A1437
WILSON, D: Numerical simulation of the blast-wave accelerator, 12A254
WILSON, DA: Optimal control of the linear wave equation, 10T414
WILSON, DE: Dissociative cooling: Effect on stagnation heat transfer of gas mixture injection, 5A719
WILSON, DG: Human-Powered Vehicles, 3R18
- Utilization of recuperated and regenerated engine cycles for high-efficiency gas turbines in the 21st Century, 12A1178
WILSON, DK: Effect of turbulent intermittency on scattering into an acoustic shadow zone, 12A284
WILSON, EL: Clarification of the orthogonal effects in a 3D seismic analysis, 7A1383
WILSON, GJ: Computations axisymmetric flows in hypersonic shock tubes, 6A923
WILSON, GR: Transient detection using the nonstationary bispectrum, 10A385
WILSON, J: Coal: Energy for the future, 6T1203
WILSON, JD: Review of Lagrangian stochastic models for trajectories in the turbulent atmosphere, 12A1441
WILSON, JF: In-plane free vibrations of catenary arches with unsymmetric axes, 8A133
- Similitude experiments on projectile-induced fracture of monolithic glass, 9A288
WILSON, JH: Applications of inverse beamforming theory, 5A284
- Conceptual design of soil venting systems, 10T1456
WILSON, JL: Inelastic torsional coupling of building models, 8A1340
WILSON, JR: Matrix of confusion: A classification of robot movement, 11A398
WILSON, KC: Effects of wave asymmetry on sheet flow, 2T857
WILSON, MA: Use of energy flow concept in vibration design, 11A159
WILSON, MJ: Efficient parametrization of generic aircraft geometry, 5A736
WILSON, MR: De-Dopplerization of aircraft acoustic signals, 2A209
WILSON, R: Sound transmission through dry lined walls, 10A349
WILSON, RC: Shaking intensity thresholds for rock falls and slides: Evidence from 1987 Whittier Narrows and Superstition Hills earthquake strong-motion records, 6A1268
WILSON, RV: Two-dimensional spatially developing mixing layers, 10A1157
WILSON, SDR: Growth rates of the Marangoni instability in a layer of elastic liquid, 5A955
- Steady Ostwald flow between two differentially-rotating co-axial discs, 9A1083
WILSON, WRD: Lubrication of strip rolling in the low-speed mixed regime, 8A1039
WILSON, WW: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
WILTSHIRE, RJ: Analytical approach to coupled heat and moisture transport in soil, 4A1315
WIMMER, HK: Hermitian solutions of the discrete-time algebraic Riccati equation, 10T409
WIMMER, SA: Compressive failure of microcracked porous brittle solids, 11A2
WINBURN, S: Angular response properties of retroreflective screen materials used in wide-field shadowgraphy, 7A1194
WINCH, K: Predicting warpage of injection molded fiber-reinforced plastics, 8A455
WINDELBAND, B: Determination of strain components in low-cycle multiaxial fatigue tests on tubes, 11A629
WINEBRENNER, D: Layer stripping for the Helmholtz equation, 11A64
WINEMAN, A: Nonlinear vi
WINFIELD, DC: Optimization of the clubface shape of a golf driver to minimize dispersion of off-center shots, 5A695
- Free vibration of thick-walled laminated conical tubes, 8A124
WINKER, T: Response of rigid body assemblies to dynamic excitation, 3A1323

WINKLHOFER, E: Optical research engines: Tools in gasoline engine development, 4A1266
WINN, AJ: Lubricated wear of ceramics - Part I: The wear and friction of silicon nitride, alumina, and steel in the presence of a mineral oil based lubricant, 5T785
WINNICKI, I: Ellipticity condition of the Monge-Ampere equation in the solenoidal model, 6A1292
WINOTO, SH: Proposed intermittency measurement method for transitional boundary layer flows, 4A1023
- Investigation of intermittency measurement methods for transitional boundary layer flows, 10T1140
- Numerical studies of transitional turbulent pulsatile flow in pipes with ring-type constrictions, 12A1112
WINTER, DA: Stability of walking frames, 8A1451
- Two-part, viscoelastic foot model for use in gait simulations, 10A1473
WINTER, HH: Rotation of liquid crystalline macromolecules in shear flow and shear-induced periodic orientation patterns, 10A1049
WINTERBONE, DE: Finite volume FLIC method and its stability analysis, 2A893
- Measurement of the flow field in a diesel engine combustion chamber after combustion by cross-correlation of high-speed photographs, 9A1324
WINTERS, KB: Diascalar flux and the rate of fluid mixing, 12A1151
WINTERSTEIN, SR: Fatigue damage in the side shells of ships, 2A602
- Load models for fatigue reliability from limited data, 7A1401
- Extreme jack-up response: Simulation and nonlinear analysis methods, 11A144
WINTHER, BA: Aeroelastic effects on the B-2 maneuver response, 1A1110
WINTHER, R: Interior penalty preconditioners for mixed FE approximations of elliptic problems, 9A60
- Finite-difference schemes for scalar conservation laws with source terms, 9A95
WINTRICH, H: Visualization of turbulence anisotropy by single exposure speckle photography, 10A1183
WIRE, GL: Effect of water flow rate upon the environmentally assisted cracking response of a low-alloy steel, 5A588
WIRGIN, A: Shape reconstruction using diffracted waves and canonical solutions, 3A275
- Effects of buildings on the duration and amplitude of ground motion in Mexico City, 12A1379
WIRSCH, PJ: Performance characteristics of a stainless steel-ammonia loop heat pipe, 10A1321
WIRSCHING, PH: Random Vibrations: Theory and Practice, 2R8
WIRTH, S: Directional permeability measurement of deformed reinforcement, 12A486
WIRTZ, RA: Comparison of the cooling performance of staggered and in-line arrays of electronic packages, 8A1219
WISE, G: Analysis of transverse flow in aligned fibrous porous media, 4A960
WISE, KA: Nonlinear H_∞ optimal control for agile missiles, 6A314
- Linear quadratic flight control for ejection seats, 6A327
WISLER, DC: Effects of rotating inlet distortion on multistage compressor stability, 11A1055
WISNIEWSKI, K: Design derivatives for optimization with a critical point constraint, 11A718
WISNIEWSKI, P: Magnon drag effect on resistivity and thermoelectric power of semimetallic antiferromagnet USb, 6T1165
- Reliability model for combustion engine, 8T842
WISNOM, MR: Modeling the effect of cracks on interlaminar shear strength, 4A735
- Size effects in interlaminar tensile and shear strength of unidirectional glass fiber-epoxy, 7A840
- Reduction in interlaminar shear strength by discrete and distributed voids, 9A824
- Micromechanical modeling of SCS-6 fiber reinforced Ti-6Al-4V under transverse tension: Effect of fiber coating, 10A586
- Compressive failure due to shear instability: Experimental investigation of waviness and correlation with analysis, 10A571
WISSINK, AM: Efficient iterative methods applied to the solution of transonic flows, 7T1076
WISTEHUFF, WE: Nonlinear effects on the stresses and deformations of bolted joints, 7A1027
- Nonlinear effects on the stiffness of bolted joints, 7A1026
WITBAARD, R: Multiple precursors to the Landers earthquake, 11A1364
WITELSKI, TP: Shocks in nonlinear diffusion, 2A1126
WITHERS, PJ: Weibull modeling of particle cracking in metal matrix composites, 2A606
WITKOWSKI, M: Nonlinear analysis of imperfect steel space trusses, 9A623
WITKOWSKI, Z: Influence of environmental moisture conditions upon the rate of water movement in concrete during the process of drying, 9A943
WITTBRODT, E: Computer Aided Design CAD CAM Vibration of Mechanical Systems Numerical Approach: Selected Problems, Volume 2 - (Wspomaganie Komputerowe CAD CAM Drgania Ukladow Mechanicznych W Ujeciu Komputerowym: Zagadnienia Wybrane tom 2), 9R3
- Application of rigid FEM to dynamic analysis of spatial systems, 1T13
WITTE, LC: Experimental investigation of the effects of subcooling and velocity on boiling of Freon-113, 11A1171
WITTEK, U: Natural Draught Cooling Towers - Proc of 4th Int Symp, 11N33
WITTHOHN, A: Improving coal-fired power generation by integrating PFBC and gas-fired combined cycles in a hybrid process, 8A1284
WITTIG, S: Flow field and performance characteristics of combustor diffusers: A basic study, 5A1279
- Mechanisms of coke formation in gas turbine combustion chambers, 10A1396
- Experimental and numerical study of orifice discharge coefficients in high-speed rotating disks, 11A894
WITTMER, KS: Perpendicular blade vortex interaction, 2A194
WITTUM, G: Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures, 12A30
WITWIT, MRM: Inner product techniques for computing eigenvalues for 3D anharmonic oscillators with quartic and sextic perturbations, 4A200
WITZ, JA: Measurements from the Emerald instrumented flexible riser, 12A856
- Case study in the cross-section analysis of flexible risers, 12A1437
WITZANI, M: Modeling of (cogeneration) power plants on time-dependent power demands of the consumer, 10A1398
WLODARCZYK, E: Investigations of barrel bore wearing mechanism, 1A937
- Analysis of initiation of detonation process in a system comprising an explosively loaded elastic partition, 6A225
- Investigations of the combustion products of aluminum in explosion processes, 9A332
- Fabrication of two-constituent aluminum bronzes by powder metallurgy method and examination of their properties, 9A725
- Study of Al_2O_3 additive influence on selected properties of sintered double aluminum bronzes, 9A726
WNUK, MP: Lie symmetry and conservation laws of thermodiffusion in viscoelastic materials, 1A475
WNUK, S: Russian strin gages: Update, 2T716
WO, GW: Singular integral equation-BEM to solve the Saint-Venant bending problem of cracked cylinders, 4A70
WOBSCHAL, F: Error indicators for mixed FEs in 2D linear elasticity, 4A440
WODICKA, GR: Using acoustic reflectometry to determine breathing tube position and patency, 6A1369
WODYNSKI, R: Stand for testing of full-scale bidges (Polish), 3A804
WOESTE, FE: Wood-floor vibration design criteria, 1A897
WOJCIECH, S: Application of rigid FEM to dynamic analysis of spatial systems, 1T13
- Dynamic analysis of manipulators with consideration of dry friction, 2A293
WOJCIECHOWSKI, S: Processing-property-microstructure relations in Fe-M-Nd-C (M = Cu, Ga, Nb, Al) based ingot magnets, 9T655
WOJCIK, J: Temperature increase in a two-layer obstetric model of tissues in the case of linear and nonlinear propagation of a continuous ultrasonic wave, 1A353
WOJDALA, A: Non-uniform adaptive meshing for global illumination, 1A76
WOJNAR, R: Main Polish historical and modern sources on applied mechanics, 10A2
WOJNAROWSKI, J: Application of structural numbers to generating the characteristics of mechanical systems, 2A830
- Graph representation of mechanical systems, 2A450
WOJNO, W: Gradient generalization to internal state variable approach, 3A7
- Parabolic regularization of hyperbolic heat conductivity in rigid body, 6A3
WOLF, DH: Local jet impingement boiling heat transfer, 7A1236
WOLF, JP: Static stiffness of unbounded soil by FEM, 9A38
- Consistent infinitesimal FE cell method: 3D vector wave equation, 12A231
WOLF, M: Determination of limits for smallest detectable and largest subcritical leakage cracks in piping systems, 3A1359
WOLF, RH: TiNi (shape memory) films on silicon for MEMS applications, 5T355
WOLF, S: Influence of varying muscle forces on lumbar intradiscal pressure: An *in vitro* study, 8A1416
WOLFE, P: Global bifurcation of an elastive conducting rod in a magnetic field, 9A613
WOLFE, S: Buffeting of fin: Distortion of incident vortex, 4A942
- Buffeting of fins: An assessment of surface pressure loading, 4T943
- Buffeting of a fin: Streamwise evolution of flow structure, 7A1153
WOLFF, LM: Slopes of small-scale wind waves and their relation to mass transfer rates, 2A178
WOLFF, M: Simultaneous concentration and velocity measurements using combined laser-induced fluorescence and laser Doppler velocimetry: Application to turbulent transport, 9A1201
WOLFF, TF: Underseepage analysis of levees on two-layer and three-layer foundation, 8A540
WOLINSKI, S: Cracking behavior of reinforced concrete members with concentrated reinforcement (Polish), 6A743
WOLLMANN, GP: Fretting fatigue in post-tensioned concrete beams, 9A918
WOLOCHUK, MC: Effects of turbulence and unsteadiness on vortex shedding from sharp-edged bluff bodies, 9A1161
WOLPERT, JL: Solar-powered Rankine system for domestic applications, 7A1398
WOLSINK, GM: Fracture and fatigue behavior of a high strength limestone concrete as compared to gravel concrete, 6A747
WOLTER, F-E: Surface curve design by orthogonal projection of space curves onto free-form surfaces, 8A830
WOLTERS, L: Data-paralon vortex shedding from sharp-edged bluff bodies, 9A1161
WOLPERT, JL: Solar-powered Rankine system for domestic applications, 7A1398
WOLSINK, GM: Fracture and fatigue behavior of a high strength limestone concrete as compared to gravel concrete, 6A747
WOLTER, F-E: Surface curve design by orthogonal projection of space curves onto free-form surfaces, 8A830
WOLTERS, L: Data-parallel numerical methods in a weather forecast model, 6A1295
WONG , R: Modeling and simulation of the operational and information processing functions of a computer-integrated manufacturing cell, 2T340
WONG, AK: Thermomechanical technique for measuring residual stress, 9T1296
WONG, BS: Comparison of Lamb waves and pulse echo in detection of near-surface defects in laminate plates, 2A698
WONG, CF: Turbulent line momentum puffs, 6A999
WONG, CM: Evaluation of seismic torsional provisions in uniform building code, 2A1251
- Seismic displacements of torsionally unbalanced buildings, 3A1324
WONG, CW: System and parametric identification of flexible connections in steel framed structures, 4A1333
WONG, HUBERT: High-power electronics heat rejection from aircraft skin, 11A1242
WONG, IG: 1986 Crested Butte earthquake swarm and its implications for seismogenesis in Colorado, 3A1271
WONG, K: Drag prediction at subsonic and transonic speeds using Euler methods, 1A1026
WONG, PAT LAM: Thermal non-Newtonian EHL analysis of rib-roller end contact in tapered roller bearings, 5A1101
WONG, PL: Partial EHL analysis of rib-roller end contact in tapered roller bearings, 10T1227
WONG, PS: Note on the accuracy of spectral method applied to nonlinear conservation laws, 4A73
- Tension of conductor under concentrated loads, 5A131
WONG, PTY: Interaction of flow structures within bistable flow behind two circular cylinders of different diameters, 6A972
WONG, SAU-WAI: Hydration swelling of water-absorbing rocks: A constitutive model, 12A1345
WONG, SHWIN-CHUNG: Validity of droplet ignition criteria derived assuming gas-phase quasisteadiness, 6A1194
WONG, SSM: Relativistic hydrodynamics and essentially non-oscillatory shock capturing schemes, 1A242
WONG, TE: Bus bar solder joint durability evaluation, 12A983
WONG, TN: Calibration technique for a parallel-wire depth probe with conductivity compensation, 10A1235
- Adiabatic capillary tube expansion devices: A comparison of the homogeneous flow and the separated flow models, 11A865
WONG, WO: Free vibration of simply-supported beam partially loaded with distributed mass, 10T147
WONG, YW: Distributed study of air temperature inside a dry-expansion evaporator, 7A1272
WOO, G: Kernel estimation methods for seismic hazard area source modeling, 11A1342
WOO, KWANG SUNG: p-version FE approximations of stress intensity factors for cracked plates including shear deformation, 2A620
WOO, KYEONGSIK: Three-dimensional failure analysis of plain weave textile composites using a global-local FEM, 12A760
WOO, PENG-YUNG: Discrete-time model reference adaptive controller designs for robotic manipulators, 11A390
WOO, SL-Y: Single integral finite strain viscoelastic model of ligaments and tendons, 11A1459
WOO, TC: Spanning line segments of a polyhedron, 8A829
- Tolerance analysis for sheet metal assemblies, 8A825
WOOD, AS: Performance indicators for steady-state heat transfer through fin assemblies, 11A1102
WOOD, BD: Effects of a sonoabsorbable gas on interfacial heat and mass transfer for the entrance region of a falling film absorber, 7A1395
WOOD, CW: Simulating heat addition via mass addition in variable area compressible flows, 10T1153
WOOD, GS: Soil parameters for estimating the rolling resistance of earthmoving plant on a compacted silty cohesive soil, 2A793
WOOD, JR: Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, 6A424
WOOD, JT: Plasticity and fracture of in-situ composites, 1A819
WOOD, LA: Prediction of peeling failure of reinforced concrete beams with externally bonded steel plates, 2A760
WOOD, N: Onset of separation in neutral, turbulent flow over hills, 5A1341
- New finite-difference diffusion scheme, 9A89
WOOD, PA: Finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities, 1A24
- Measurement of adhesion between carbon fibers and bismaleimide resins, 5A467
WOOD, SL: Influence of web reinforcement on the cyclic response of structural walls, 5T709
- Sensitivity of seismic assessment of a double-deck, reinforced concrete bridge, 11A1409
WOOD, TL: Reduction of tiltrotor download, 1A1136
WOOD, WA: Dual-code solution strategy for hypersonic flows, 12T1070
WOOD, WL: Fine suspended sediment transport rates, 6A884
WOODALL, CM: Multidimensional, nonhomogeneous, dense spray contributions to diffraction-based particle size distribution measurements, 5A1113
WOODBURY, KA: Proc of 1995 National Heat Transfer Conf, Aug 6-9, 1995, Portland, OR, Vol 9, 3N40
- Genetic algorithm in solution of inverse heat conduction problems, 4A1211
WOODCRAFT, AL: Convective instability in rotating liquid ^{3}He-^{4}He mixtures, 11A981
WOODELL, MI: Role of pilot projects and public acceptance in developing wireless power transmission as an enabling technology for space solar power systems, 8A1388
WOODGATE, KG: Nonlinear inverse dynamics control of aircraft using spoilers, 8A1017
WOODHAM, D: Behavior of RC bridge decks with flexible girders, 6A767
WOODHOUSE, J: Transient behavior of models of bowed-string motion, 2A100
WOODROOFFE, J: Influence of articulation damping on the yaw and lateral dynamic response of the vehicle, 3A373
WOODS, AW: Plumes with non-monotonic mixing behavior, 3A953
WOODWARD, CB: Evaluation and testing of a fracture critical bridge, 6A768
WOODWARD, MR: Surface flaws using a modified AC magnetic bridge, 5A674
WOODWARD, PR: Iterative implementation of an implicit-explicit hybrid scheme for hydrodynamics, 8A67
WOODWARD, RL: Modeling geometrical and dimensional aspects of ballistic penetration of thick metal targets, 9A282
WOODWARD, RP: Assessment of noise control measures for a model advanced ducted propulsor, 11A258
WOOH, SC: New compression test method for thick composites, 2A453
WOOH, SHI-CHANG: Acoustic emission study of failure mechanisms in ceramic matrix composite under longitudinal tensile loading, 4A775
WOOL, RP: Nail solution: Adhesion at interfaces, 11A847
WOOLHISER, DA: Search for physically based runoff model - A hydrologic el dorado ?, 8A1352
WOOLLAM, JA: Low-Earth-orbit exposure of carbon-based materials aboard shuttle flight STS-46, 5A252
WOOLLONS, DJ: Automated fault tree analysis for hydraulic systems, 12A421
WOOTTEN, D: Improved accuracy six-load component pedal dynamometer for cycling, 12A1484
WORCESTER, P: Ocean Acoustic Tomography - Monographs on Mechanics Series, 2R52
WORDEN , K: Characterization of automotive shock absorbers using random excitation, 4A222
WORDEN, K: Pseudo-fault induction in engineering structure: Multi-input multi-output control, 4A124
- Use of a rising-falling chirp excitation for vibration testing, 10A141
WOREK, WM: Performance of partitioned-bed sorption heat pump systems, 2A1145
- Effect of operating conditions on the performance two-bed closed-cycle solid-sorption heat pump systems, 3A1160
- Method of heat and mass transfer enhancement in film evaporation, 3A1094

- Effect on additives on the regeneration of a dilute absorbent, 3A1191
- Performance optimization of two-bed closed-cycle solid-sorption heat pump systems, 6A1155
- Laminar fluid flow in a planar 90° bifurcation with and without approtruding branching duct, 9A1148
- Performance of multi-bed sorption heat pump systems, 10A1325

WORSTER, MG: Flow focusing instability in a solidifying mushy layer, 2A1116
- Weakly nonlinear analysis of convection in mushy layers during the solidification of binary alloys, 4A1073
- New oscillatory instability in a mushy layer during the solidification of binary alloys, 7A1119

WORTH, DJ: Radiative exchange between square parallel channels in a concentric monolith structure, 7A1255

WORTMAN, JJ: Metal-oxide-silicon capacitor detectors for measuring micrometeoroid and space-debris flux, 1A275

WOSLE, M: Dynamics of multibody systems containing dependent unilateral constraints with friction, 10A960

WOYDT, M: Advances in tribology: The materials point of view, 5A796

WOZNIAK, C: Micro-dynamics of composite materials, 3A64
- Microdynamics of composite plates, 5A477
- Dynamic modeling of elastic wavy plates, 8A113
- Modeling of nonstationary heat conduction problems in microperiodic composites, 10A1289
- Modeling of dynamic problems for viscoelastic composites, 12A578

WOZNIAK, J: Comparison of results of estimation of thermal energy consumption carried out by simulation method and balance sheet method (Polish), 10A1452

WOZNIAK, M: Description of consolidation processes in saturated reinforced subsoils, 3A572
- Dynamic behavior of micro-damaged stratified media, 7A858
- Dynamic modeling of elastic wavy plates, 8A113
- Two-dimensional dynamics of a stratified elastic subsoil layer, 9A669
- Modeling of nonstationary heat conduction problems in microperiodic composites, 10A1289

WOZNICA, K: Comparative study of vibrations of elasto-viscoplastic shells and plates, 1A148

WRAGG, AA: Free convective mass transfer at down-pointing pyramidal electrodes, 7A1294

WRANA, B: Dynamic response of the subterrancan gas piping to the selected kind of impact loads (Polish), 3A576

WREN, JR: Micromechanics of granular media - Part I: Generation of overall constitutive equation for assemblies of circular disks, 4A599

WRIGGERS, P: Augmented Lagrangian algorithms for thermomechanical contact problems with friction, 1A1295
- Formulation for the 4-node quadrilateral element, 2A30
- Axisymmetrical quasi-Kirchhoff-type shell element for large plastic deformations, 2A29
- Incompressible constraint of the 4-node quadrilateral element, 2A32
- Adaptive FE algorithm for contact problems in plasticity, 6A398
- Finite element algorithms for contact problems, 6A25
- Consistent gradient formulation for a stable enhanced strain method for large deformations, 9A73
- Formulation of the Q6 element for large elastic deformations, 10A30
- Large strain analysis of soft biological membranes: Formulation and FE analysis, 12A1467

WRIGHT , PK: Algorithms for the minimization of setups and tool changes in "simply fixturable" components in milling, 10A497

WRIGHT, E: Computer aided preform design in forging using the inverse die contact tracking method, 12A677

WRIGHT, HD: Local stability of filled and encased steel sections, 2A493
- Behavior of composite walling under construction and service loading, 5A716

WRIGHT, J: Numerical simulation of unsteady convective intrusions in a thermohaline stratification, 7A1298
- Development of pressure-based composite multigrid methods for complex fluid flows, 11A902

WRIGHT, JP: Direct time integration methods for structural acoustics and far field scattering computations, 5A285

WRIGHT, JR: Modal parameter identification using an unknown colored random input, 5A307
- Optimal excitation for aircraft flutter testing, 6A221
- Mode tracking during flutter testing using the modal assurance criterion, 8A227
- Use of a rising-falling chirp excitation for vibration testing, 10A141

WRIGHT, MJ: Examination of OH ultraviolet radiation from shock-heated air, 10A1306
- Data-parallel lower-upper relaxation method for the Navier-Stokes equations, 12A1054

WRIGHT, MS: Vortex wakes of two transports measured in 80 by 120 foot wind tunnel, 9A1100

WRIGHT, NG: Natural convection in a shallow laterally heated air-filled cavity, 4A1153

WRIGHT, S: Dynamic vibrations of an elastic beam in frictional contact with a rigid obstacle, 11A106

WRIGHT, SD: Natural convection from a vertical plate with a prescribed surface heat flux in porous media, 9A1372

WRIGHT, SE: Active control of environmental noise, 8A252

WRIGHT, T: Search for simple models to predict fan performance and noise, 1A289

WRIGHT, TW: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
- Asymptotic structure of an adiabatic shear band in antiplane motion, 6A179
- Comparison of 1D and 3D simulations of the twisting of a thermoviscoplastic tube, 8A1230

WROBEL, LC: Coastal Engineering: Computer Modelling of Seas and Coastal Regions - Proc of the 2nd Int Conf on Comput Model of Seas and Coastal Regions, Cancun, Mexico, Sept 6-8, 1995, 1N27
- Computational Modelling of Free and Moving Boundary Problems III, 1N28
- Advanced Computational Methods in Heat Transfer IV - Proc of 4th Int Conf on Advanced Computational Methods in Heat Transfer, Udine, Italy, July 1996, 11N45
- Global interpolation function based DRBEM applied to Darcy's flow in heterogeneous media, 8A1324
- Dual reciprocity formulation for elasticity problems with body forces using augmented thin plate splines, 9A491
- h-Hierarchical functions for 2D and 3D BEM, 9A102

WROBLEWSKI, A: Family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, 4A564
- T-elements: A FE approach with advantages of boundary solution methods, 5A38

WROBLEWSKI, BM: Frictional resistance of new and explanted artificial hip joints, 5A771
- Measurement of wear in retrieved acetabular sockets, 6A1366

WROBLEWSKI, D: Effect of large-scale periodic unsteadiness on heat transport in the downstream region of a junction boundary layer, 8A945

WROBLEWSKI, DE: Heat transfer and fluid mechanics measurements for the endwall boundary layer downstream of a streamlined strut, 11T1136
- Conditionally sampled turbulent Prandtl number in the outer region of a turbulent boundary layer, 11T943

WSZOLEK, T: Audible noise of transmission lines caused by the corona effect: Analysis, modeling, prediction, 9A335

WU , BAISHENG: Secondary buckling of an elastic strut under axial compression, 4A570

WU , CHUIJIE: Interactions of 3D viscous axisymmetric vortex rings with a free surface, 3A893

WU , CUNLI: Dispersion analysis of dynamic FE semidiscretizations of the 2D wave equation (Chinese), 9T55

WU , GUIRONG: Problems of windblast, 7A1418

WU , JIANJUN: Study on ironing using upper-bound approach, 7A727

WU , JINGNING: Automatic FE mesh generation and condensation based on quadtree (Chinese), 9A47

WU , LINZHI: Effective elastic moduli of an inhomogeneous medium with cracks, 3A435

WU , LIYAN: Study on quasi-pure probabilistic FEM (Chinese), 9A71

WU , LIYI: Navier-Stokes analysis of a circulation control airfoil, 3A894

WU , SHICHUN: Kinetic equation for damage during superplastic deformation, 3A464
- Superplastically free bulging of duralumin LY12CZ under an external strong electric field, 7T535

WU , SHIMING: Variation principles of Love waves and the inversion technique for Love surface waves methods (Chinese), 6A181

WU , YANFANG: Fuzzy Petri net for fault diagnosis, 7A421

WU , YAPING: Exact method for dynamic analysis of rectangular laminated orthotropic plates under heating load, 11A1251

WU, BAISHENG: Compound buckling of a strut with a lateral elastic support at center, 7T651
- Computation of Hopf branches bifurcating from a class of Hopf-steady-state points, 12A72

WU, BAOGUO: Three-dimensional FE nonlinear analysis of membranes, 9A583

WU, BAOSHENG: Sediment transport in the Yellow River, 10T1061

WU, BH: Crack problems in FGM layers under thermal stresses, 10A1333

WU, C-M: Combined heat and mass transfer by laminar natural convection from a vertical plate, 3A1030

WU, CC: Investigation of non-Darcian forced convection in an asymmetrically heated sintered porous channel, 3A1073
- Study on the dual integral of J, 11T661

WU, CHANG-CHUN: Optimization approaches of hybrid stress elements, 5A35

WU, CHAU-HAUNG: Numerical algorithm for estimating temperature-dependent thermal conductivity, 12A1251

WU, CHENGPING: Analysis of energy release rate for cracked laminates, 1A804
- Analysis of complex stress intensities for cracked laminates, 9A814

WU, CHIH: General performance characteristics of a finite-speed Carnot refrigerator, 7A1274

WU, CHIH-PING: Three-dimensional analysis of doubly-curved laminated shells, 10A616

WU, CHONG: Wave response analysis of a flexible floating structure by a simple beam model (Japanese), 5A150
- Eigenfunction expansion-matching method for analyzing the wave-induced responses of an elastic floating plate, 11A213

WU, CHUI-JIE: Optimal theory for an expansion of flow quantities to capture the flow structures, 5A971

WU, CJ: Reduction of vibrational power in periodically supported beams by use of a neutralizer, 4A224

WU, CK: Thermophoretic deposition including an application to the outside vapor deposition process, 7A1299

WU, CL: Low velocity impact damage in composite sandwich beams, 7A835

WU, CM: Reflection and transmission of the energy of harmonic elastic waves in a bent bar, 8A179
- Reflection and transmission of the energy of transient elastic extensional waves in a bent bar, 9A190

WU, CS: Rule-based control of weld bead width in pulsed gas tungsten arc welding, 7A1031

WU, CW: Extension of spline wavelets element method to membrane vibration analysis, 12A158

WU, CY: Arbitrary surface flank milling of fan, compressor, and impeller blades, 5A1028
- Chaotic oscillations in a low pressure two-phase natural circulation loop under low power and high inlet subcooling conditions, 11A1421

WU, D: Amplitude-modulated lock-in vibrothermography for NDE of polymers and composites, 10A859

WU, D-N: LQR for state-bounded structural control, 9A426

WU, DC: Subcritical crack growth life prediction for ceramic components of advanced heat engines, 10A805

WU, DONGDI: Interactions of coplanar surface semi-elliptical cracks and embedded elliptical cracks in finite thickness plates under uniform tension, 1A835
- Stress intensity factors for internal semi-elliptical surface cracks in pressurized thick-walled cylinders using the hybrid BEM, 4A710
- Stress intensity factors for semi-elliptical surface cracks in plates and cylindrical pressure vessels using the hybrid BEM, 4A711
- Interactions of two coplanar elliptical cracks embedded in finite thickness plates under uniform tension, 6A642
- Analyses on interactions of two identical semi-elliptical surface cracks in the internal surface of a cylindrical pressure vessel, 9A846
- Stress intensity analyses on tension of a finite thickness plate with two coplanar semi-elliptical surface cracks, 12A739

WU, ENBOA: Woven glass-epoxy laminates subject to projectile impact, 1A219
- Inverse problem of rectangular plates subjected to elastic impact - Part I: Method development and numerical verification, 5A188
- Inverse problem of rectangular plates subjected to elastic impact - Part II: Experimental verification and further applications, 5A189
- Behavior of stitched laminates under in-plane tensile and transverse impact loading, 6A434

WU, F: Unsteady planar diffusion flames: Ignition, travel, burnout, 5A1214
- Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, 8A450

WU, FAN: Structural system identification using least mean square (LMS) adaptive technique, 4A229

WU, FANGSHENG: Disk-shaft vibration induced by bearing clearance effects: Analysis and experiment, 10A225

WU, FELIX: Diffusion-flame burning of fuel-vapor pockets in oxidizer for general Lewis numbers, 9A1310

WU, GAOFENG: Dominant mode method for the minimum time design of slewing flexible structures, 10A922

WU, GE: ISB recommendations for standardization in the reporting of kinematic data, 1T1448

WU, GUOXUN: Closed form solution of stress and strain concentration factors of axially symmetric bodies with small scale plasticity by means of the conservative integral method, 6A382

WU, GX: Interaction of water waves with a group of submerged spheres, 7A291

WU, HAN C: Investigation of transient creep by means of endochronic viscoplasticity and experiment, 5A430

WU, HC: Observations on yield surfaces for 304 stainless steel at large prestrain, 5A451

WU, HONGMING: Study of the solid modeling technigues adaptive to product modeling, 6T372

WU, HORNG-WEN: Analysis-FE combined methodology on transient heat conduction of a finite domain with planar-discrete sources, 12A1246

WU, HORNG-YU: Effects of beryllium on fatigue crack propagation of A357 alloys containing iron, 9A754

WU, HS: Probabilistic approach to applications of the R6 structural integrity assesement method, 10A757

WU, HWAI-CHUNG: Matrix design for pseudo-strain-hardening fiber reinforced cementitious composites, 5A468

WU, J: Patterns of sustained oscillations in neural networks with delayed interactions, 2T63
- Effect of wellbore curvature on tubular buckling and lockup, 5A1344
- Buckling and lockup of tubulars in inclined wellbores, 5A1343
- Three-dimensional vortex structures in a cylinder wake, 10A1156

WU, J-S: Dynamic analysis of a channel beam due to a moving load, 6A123
- Exact solution for a simplified model of the heave and pitch motions of a ship hull due to a moving load and a comparison with some experimental results, 10A217

WU, JC: Hybrid control of seismic-excited bridge structures, 4A374
- Sliding mode control for nonlinear and hysteretic structures, 6A730
- Sliding mode control for seismically excited linear structures, 6A731
- Experimental verification of H_∞ and sliding mode control for seismically excited buildings, 6A1281
- Control of sliding-isolated buildings using sliding-mode control, 7A911
- Control of seismic-excited buildings using active variable stiffness systems, 12A1399

WU, JENG DOW: Analysis of the friction and wear mechanisms of structural ceramic coatings - Part I: The effect of processing conditions, 12A876

WU, JIANJUN: Potential pitfalls of crooked-line seismic reflection surveys, 6A1259

WU, JIANMIN: Analysis of structural deviation of C-type piezoresistive pressure sensors using the FEM (Chinese), 8A526

WU, JIE: Least-squares FEM for low-Mach-number compressible viscous flows, 4A997

WU, JIKE: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, 9A638

WU, JIN: Moisture-transfer coefficient for climate models, 12A1418

WU, JJ: Solutions to a general forced nonlinear oscillations problem, 1A104
- Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics, 11A94

WU, JM: Effective vorticity-velocity formulations for 3D incompressible viscous flows, 3A909

WU, JONG-SHYONG: Free and forced vibrations of a Timoshenko beam with any number of translational and rotational springs and lumped masses, 2A92

WU, JSS: Clarification of the mechanical behavior of spinal motion segments through a 3D poroelastic mixed FE model, 10A1462

WU, JUNRU: Propagation of Lamb waves in a plate bordered with a viscous liquid, 1A255
- Determination of velocity and attenuation of shear waves using ultrasonic spectroscopy, 10A845
- Effects of nonlinear interaction on measurements of frequency-dependent attenuation coefficients, 12A315

WU, JZ: Effective vorticity-velocity formulations for 3D incompressible viscous flows, 3A909

WU, K CHAUNCEY: Multicriterion preliminary design of a tetrahedral truss platform, 12A815

WU, KUANG-CHONG: Stress analysis of anisotropic elastic V-notched bodies, 11A430

U, K CHAUNCEY: Multicriterion preliminary design of a tetrahedral truss platform, 12A815

WU, KUANG-CHONG: Stress analysis of anisotropic elastic V-notched bodies, 11A430

WU, L-N: Efficient, robust second-order total variation diminishing scheme, 6T203

WU, LINZHI: Elastic field caused by a circular cylindrical inclusion -
Part I: Inside the region $x_1^2 + x_2^2 < a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, 5A409
- Elastic field caused by a circular cylindrical inclusion - Part II: Inside the region $x_1^2 + x_2^2 > a^2$, $-\infty < x_3 < \infty$ where the circular cylindrical inclusion is expressed by $x_1^2 + x_2^2 \le a^2$, $-h \le x_3 \le h$, 5A410

WU, MAO S: Crack nucleation in saline ice with interacting inhomogeneities, 3A1390

WU, MC: Automatic construction of CSG solids from a single isometric drawing, 7A1016

WU, MING-KUEN: Methods to compute dynamic response of a cantilever with a stop to limit motion, 5A122

WU, MING-NI: Active control using a fiber-optic interferometric sensor, 7A411

WU, MU-CHENG: Numerical and experimental studies of 3D plate-fin and tube heat exchangers, 12A1259

WU, P-K: Effects of initial flow conditions on primary breakup of nonturbulent and turbulent round liquid jets, 5T952
WU, PAO-CHUAN: Approach of the special FE for honeycore composites, 1A578
WU, PO-WENN: Investigation of the mixing flow structure in multilobe mixers, 12A1128
WU, Q: Extended integral method to derive Lyapunov functions for nonlinear systems, 2T248
- Interfacial wave stability of concurrent two-phase flow in a horizontal channel, 10A1282
WU, QH: Application of Learning Automata to controller design in slow-active automobile suspensions, 1A407
WU, RIUFENG: Effective modulus methods in 2D creep damage problems and FE analysis (Chinese), 11T19
WU, S: Effect of baffles on submerged flows, 1A974
- Evaluation of nearly singular kernel integrals in BE analysis: Some improved formulations, 8A57
WU, SF: Effect of mean flow on responses of a fluid-loaded plate, 1A284
- Permeability measurement of bidirectional woven glass fibers, 2A556
WU, SHICHUN: Cavity during superplastic deformation and its influence on mechanical properties of superplastically deformed materials at RT, 7T529
- Forming limit during superplastic deformation of sheet metals, 9A702
- Numerical computation of cavity damage and failure during the superplastic deformation of sheet metals, 12A672
WU, SHIFENG: Friction characteristics of carbon versus silicon carbide under stepwise loading conditions, 8A791
WU, SHIMING: FEM analysis of bending vibration of a pipe conveying fluid during vetrical earthquake (Chinese), 6A10
WU, SHIUN: Cyclic performance of steel beam-column moment joints, 4AB69
WU, SHUFAN: Studies on aircraft total energy flight control system: Nonlinear system integration and simulation, 6A321
WU, SHUFANG: Automatic quadrilateral mesh generation for planar regions (Chinese), 11A30
WU, SM: Case studies on modeling manufacturing processes using artificial neural networks, 5A381
- Recursive calibration of industrial manipulators by adaptive filtering, 5A361
WU, SY: Determination of residual stresses using large shearing speckle interferometry and the hole drilling method, 2A704
WU, T-T: Determination of elastic constants of a concrete specimen using transient elastic waves, 3A722
WU, TENG-YUAN: Application of the FEM to postbuckling analysis of laminated plates, 4A13
- Finite-element method for analysis of a nonlinear system under stochastic parametric and external excitation, 10A128
WU, THEODORE YAO-TSU: Bidirectional soliton stroct, 10A286
WU, TSUNG-LIN: Analysis of hybrid multilayered piezoelectric plates, 5A543
WU, TT: Compression processes and performance analysis of a high-pressure reciprocating gas compressor, 11A1049
WU, TW: Coupled FEM-BEM formulation for acoustic radiation in a subsonic non-uniform flow, 10A1085
WU, TY: Applications of Fracture Mechanics in Electronic Packaging and Materials, EEP-Vol 11/MD-Vol 64 - Proc from Int Mech Eng Congress and Expo, Nov 1995, San Francisco, 5N20
WU, TZONG-SHIANN: Three-dimensional FE analysis of deep excavations, 10A683
WU, W: Numerical simulation of shear band formation with a hypoplastic constitutive model, 7A5
WU, W-T: Differential laser interferometer for nanometer displacement measurements, 2A1067
WU, WANGYI: Effect of the magnetic field on the pulsatile flow through a rigid tube, 1A1055
- Stokes flow of a rotating sphere around the axis of a circular orifice or a circular disk, 10A1070
WU, WEI: Experimental and numerical study of sand-steel interfaces, 1A703
- New systematic design of high-gain feedback for nonlinear systems with unmatched uncertainties, 5A321
- Failure criterion, flow rule and dissipation function derived from hypoelasticity, 11A445
WU, WEI LIANG: Design of knitted fabric reinforced composites, 2A422
WU, WEN-FANG: Study of fatigue damage and fatigue life of composite laminates, 8A587
- Study of planar orbiting mechanism and its application to scroll fluid machinery, 11A1038
WU, WEN-JING: Analysis of higher-order, finite-difference schemes in 3D reverse-time migration, 11A1367
WU, WEN-JYI: Application of the Taylor differential transformation method to viscous damped vibration of hard and soft spring system, 9A175
WU, X: Analysis and convergence of the MAC scheme - Part II: Navier-Stokes equations, 6A908
- Standardization of a testing method for the end-stop impacts of suspension seats, 10A215
WU, XH: Effective vorticity-velocity formulations for 3D incompressible viscous flows, 3A909
WU, XIAONAN: Highly-accurate numerical method for 2D and 3D shock reflection problems, 9A299
WU, XIAOYUAN: Dynamic testing on spring damping foundation (Chinese), 9A213
WU, XJ: New approach to fatigue threshold, 1A766
- Energy approach to crack closure, 7A809
WU, XT: Curvature sensing: A new concept in tracing technology, 6A375
WU, XU: Identification of damage parameters for jointed rock mass based on the Kalman filter FEM (Japanese), 4A626
WU, XUESONG: Stress distribution caused by force with saw (Chinese), 9A605
- Active resonant triad of mixed modes in symmetric shear flows: A plane wake as a paradigm, 12A1143
- Interaction of phase-locked modes: A new mechanism for the rapid growth of 3D disturbances, 12A1101
WU, XX: Efficient modeling of postbuckling delamination growth in composite laminates using plate elements, 6A625
WU, XY: Vibration of an elastic dielectric with piezoelectromagnetism, 4A594
WU, Y: Engineering penetration-perforation model of hemispherical nosed rigid cylindrical rods into strain-hardening targets, 3A195
- Effect of surface roughness on the head-tape interface, 10A993
- Harmonic thermal fracture of multiple crack system and the stability of racks in RCC arch dam, 12A1285
WU, Y-T: Application of advanced probabilistic fracture mechanics of life evaluation of turbine rotor blade attachments, 10A825
WU, YA: Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), 4A391
- Feature extraction and assessment using wavelet packets for monitoring of machining processes, 6A572
WU, YAO-TSU: General solution for interaction of solitary waves including head-on collisions, 3A200
WU, YINAN: Constitutive model for thermome-chanical response of decomposing composites under high heating rates, 10A566
WU, YINSHUN: Lubricating mechanisms of sulfurized olefin on oxynitrided steel surface under boundary lubrication condition, 12A930
WU, YONG-HONG: Punch problem for shear-index granular materials, 7A1350
WU, YONGBO: Studies on centerless grinding (2nd Report): Optimum grinding conditions (Japanese), 9A715
WU, YUANYIN: Infinite-dimensional continuous-time linear systems: Stability and structure analysis, 10T392
WU, YUMEI: Vanishing relaxation limit of viscoelasticity, 11A437
WU, Z: Design spectra for actively controlled structures based on convex models, 9Ah interfacial effect, 12A751
WU, ZUO-BING: Remark on metric analysis of reconstructed dynamics from chaotic time series, 1A101
WUBBELING, F: Propagation-backpropagation method for ultrasound tomography, 4A777
WUEBBEN, JL: Probability distribution for peak stage on rivers affected by ice jams, 8A1402
WULF, J: Mehrphasige FE in der Verformungs- und Versagenanalyse grob mehrphasiger Werkstoffe (German), 2T426
- FE-simulation of crack paths in the real microstructure of an Al(6061)-SiC composite, 9A816
WULFF, A-M: Influence of local fluid flow and the microstructure on elastic and anelastic rock properties, 11A1331
WUNDERLICH, B: Non-isothermal heat capacities and chemical reactions using a modulated DSC, 11A1090
WUNSCH, C: Ocean Acoustic Tomography - Monographs on Mechanics Series, 2R52
WURMUS, H: Modular microfluid system with an integrated micromixer, 10T465
WURTELE, MG: Atm
WYATT, KW: Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, 12A1273
WYGNANSKI, I: Effects of excitation on the coherent and random motion in a plane wall jet, 9A1164
WYGNANSKI, IJ: Turbulent spots in a laminar boundary layer subjected to a self-similar adverse pressure gradient, 1A1044
WYKES, C: Advances in air-coupled ultrasonic transducers, 2T694
- Surface topography measurement using digital moire contouring: Errors and limitations, 2A692
WYLIE, JJ: Effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions, 6A1239
WYMER, SA: Huygens principle for flow around an arbitrary body in a viscous incompressible fluid, 8A898
WYNGAARD, JC: Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations - Part I: Velocity field, 8A977
- Effect of turbulent intermittency on scattering into an acoustic shadow zone, 12A284
- Experimental micrometeorology in an era of turbulence simulation, 12A1425
WYSOCKI, M: Generation of flow periodicity in a wind-tunnel experiment, 10A1210
WYSOKOWSKI, A: Proposal of fatigue durability checking acc to the novelized design standard of steel bridges PN-S-10052, 1A900
- Stand for testing of full-scale bidges (Polish), 3A804
- Corrosion influence on exploitation load capacity of steel road bridges (Polish), 3A748
WYSS, M: Inadvertent changes in magnitude reported in earthquake catalogs: Their evaluation through b-value estimates, 6A1288
WYSS, UP: Finite element stress analysis of a hybrid fracture fixation plate, 10A1487

X

XANTHAKIS, S: Genetic algorithm for active noise control actuator positioning, 5A278
XAVIER, PB: Buckling and vibration of multilayer orthotropic composite shells using a simple higher-order layerwise theory, 1A663
XENOS, M: Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium, 2T1099
XI, F: Trajectory tracking of a spatial flexible link manipulator using an inverse dynamics method, 2A69
XI, HAOWEN: Copolymers promote mixing of immiscible homopolymers, 12A999
XI, WANG: Mathematical treatment for impact test, 2A669
XI, YUANSHAN: Analytical variational method of solution for stress concentration factors of finite plates with a pin hole, 10A516
XI, ZC: Semi-analytical study of free vibration of composite shells of revolution based on the Reissner-Mindlin assumption, 5A137
XI, ZHIZHONG: Three-dimentional analysis of the flow in the cyclones, 1A992
XIA , LING: Three-dimensional simulation of epicardial potentials using a microcumputer-based heart-torso model, 4A1366
XIA , RENWEI: Distribution model of fatigue life and its goodness-of-fit test, 7A800
- Generalized variable approximation for geometry optimization of trusses (Chinese), 9A884
XIA , ZQ: Nonlinear damped vibrations of simply-supported rectangular sandwich plates, 4A170
XIA, CHUNLIN: Natural convective boiling in vertical rectangular narrow channels, 8T1131
XIA, HOUCHUN: Design and analysis of fiber enhanced viscoelastic damping polymers, 5A163
XIA, KENONG: Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide, 8A449
XIA, L: Predictions of creep failure in acroengine materials under multi-axial stress states, 7A795
XIA, LIN: Ductile crack growth - II: Void nucleation and geometry effects on macroscopic fracture behavior, 4A697
- Ductile crack growth - III: Transition to cleavage fracture incorporating statistics, 8A571
XIA, MF: Stochastic jump and deterministic dynamics model of impact failure evolution with rate effect, 8A604
XIA, NAN: Stability analysis of slowly divergent swirling flow - I: Theory, 7A1121
XIA, R: Return flow in rivers due to navigation traffic, 6T888
XIA, RENJIE: Distribution of turbulent velocity fluctuations in a natural river, 4A926
XIA, RENWEI: Two-level multi-point approximation method for optimum design of complicated structures, 6A1048
XIA, WEIMING: Study on abrasive resistance of Ni-based coatings with a WC hard phase, 12A934
XIA, YILIN: Investigation of using dynamic absorber to reduce random response (Chinese), 10A423
XIA, YUANMING: Dynamic elastic-plastic FEM analysis of a fracture specimen under plane stress state, 2A627
XIA, YUNJIE: Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, 7A611
XIA, Z: Finite elastoplastic constitutive formulation with new co-rotational stress-rate and strain-hardening rule, 5A449
XIA, ZQ: Nonlinear analysis of damping properties of cylindrical sandwich panels, 2A145
- Effect of temperature changes on damping properties of sandwich cylindrical panels, 5A110
- Nonlinear damped vibrations of simply supported sandwich plates in a rapidly changing temperature field, 9A1288
- Nonlinear theory and vibration analysis of laminated truncated, thick, conical shells, 10A191
XIANG, JIAXIANG: Numerical solution of DAE systems using block BDF methods, 4A85
XIANG, JINWU: Structral dynamics optimum design with given frequencies and position of mode shape node lines (Chinese), 9A893
XIANG, Y: Buckling of skew Mindlin plates subjected to in-plane shear loadings, 2A492
- Vibration of stiffened skew Mindlin plates, 3A133
- Buckling and vibration of thick laminates on Pasternak foundations, 6A147
- Vibration frequencies for elliptical and semi-elliptical Mindlin plates, 8A121
- Algorithm to generate the transition curve of the planar four-bar mechanism, 9A1019
- Analytical buckling solutions for Mindlin plates involving free edges, 12A618
- Optimal locations of point supports in plates for maximum fundamental frequency, 12A819
- Optimal design of internal ring suppon for rectangular plates against vibration or buckling, 12A166
XIANG, YUYIN: Microplane model for concrete - I: Stress-strain boundaries and finite strain, 8A443
- Microplane model for concrete - II: Data delocalization and verification, 8A444
- New off-BEM for analyzing plate and shallow shell bending, 11A530
XIAO , XUDONG: Limited-view optical tomography technique and its application to temperature field measurement in flow of hot air, 3A1016
XIAO, D: Crack front curvature effect on stress intensity factor of through and part-through thickness cracks, 8A619
- Crack growth of through and part-through thickness cracks under cyclic loading, 8A568
XIAO, DAZHUN: Geometrical properties of some constraint ruled surfaces for spatial mechanisms (Chinese), 7A1020
XIAO, H: General irreducible representations for constitutive equations of elastic crystals and transversely isotropic elastic solids, 1A7
- Unified explicit basis-free expressions for time rate and conjugate stress of an arbitrary Hill's strain, 1A454
- Invariant characteristic representations for classical and micropolar anisotropic elasticity tensors, 6A378
XIAO, JING: Ice fracture and spalling in ice-structure interaction, 11A1440
XIAO, JINSHENG: Application of artificial neural network to inverse problems of estimating inner etch of elastoplastic pipe under pressure, 9A444
XIAO, M: Modeling hot flat-Rolling of components having curved profiles - Part II: Characterization of heat transfer and flow stress, 3A1108
- Modeling hot flat-Rolling of components having curved profiles - Part I: Deformation analysis, 3A601
XIAO, QZ: Study on the dual integral of J, 11T661
XIAO, XR: Bonding steel reinforced concrete with composites, 2T748
- Approach on the Mode-I fracture toughness anisotropy for materials with layered microstructures, 2A658
XIAO, Y: Composite connections in steel and concrete - Part 2: Moment capacity of end plate beam to column connections, 8A766
XIAO, YAN: Seismic assessment and retrofit of bridge column footings, 7A949
XIAO, YUMING: Elastoplastic dynamic buckling and postbuckling of square plates under solid-fluid slamming, 1A673
XIAO, ZM: Interaction between a spherical inhomogeneity and two symmetrically placed penny-shaped cracks, 1A472
- Differential quadrature method for Mindlin plates on Winkler foundations, 7A639
- Determination of stress field in an elastic solid weakened by parallel penny-shaped cracks, 8A620
- Differential quadrature method for thick symmetric cross-ply laminates with first-order shear flexibility, 11A491
XIAONING, Z: One dimensional nonlinear viscoelastic constitutive equation of bituminous mixture (Japanese), 2A7
XIAOYU, JIANG: Frictional contact analysis of composite materials, 3A517
XIBILIA, MG: Neural networks in multidimensional domains, 8A277
- Controller order reduction by using genetic algorithms, 10A429
XIE , GETAI: Semi-discrete analysis for stability of large conical shell stiffened with longitudinal ribs (Chinese), 9T633
XIE , Z-Y: Application of GPS tensors to fiber reinforced composites, 2A448
XIE, DEJIAN: Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), 8A817
XIE, GANQUAN: Two dimensional acoustic wave equation inversion combining plane-wave seismograms with well logs, 11A1359
XIE, GENG: Alternating frequency-coefficient technique in the trigonometric collocation method, 12A106
- Alternating frequency-coefficient technique in the harmonic balance method, 12A165
XIE, GUANMO: Analytical solution of radiated sound pressure of ring-stiffened cylindrical shells in fluid medium, 8A218
XIE, H: Effects of fractal crack, 2A674

XIE, HE-PING: Improved method of collocation for the problem of crack surface subjected to uniform load, 12A779
XIE, HEPING: Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities, 8A672
- Statistically fractal strength theory for brittle materials, 9A780
XIE, JIANHENG: Sediment-laden flow in open channels from two-phase flow viewpoint, 2A862
XIE, JIANHUA: Codimension two bifurcations and Hopf bifurcations of an impacting vibrating system, 9A167
XIE, JQ: Study on shear banding in chip formation of orthogonal machining, 12A692
XIE, LIHUA: Output feedback H_∞ control of systems with parameter uncertainty, 10T416
XIE, M: Bonding steel reinforced concrete with composites, 2T748
XIE, MAOZHAO: Computational investigation on combustion of a carbon packed bed in stagnation flow field (Chinese), 8A1319
- Finite element simulation of 2D-square cavity flow (Chinese), 8A27
XIE, MING: Study of three- and four-point shear testing of unidirectional composite materials, 1A591
- Effect of loading method on compression testing of composite materials, 1A588
- Energy-based cohesive crack propagation modeling, 6A631
XIE, MINSHENG: Stress singularity due to kink band weakening a unidirectional composite under compression, 11A480
XIE, SUMING: Numerical analysis of 3D thermoelastic stress wave propagation problem, 12A1283
XIE, WEI: Partially continuous composite grid generation for solution of partial differential equations (Chinese), 9T45
XIE, WEI-CHAU: Vibration mode localization in disordered cyclic structures - I: Single substructure mode, 7A130
- Vibration mode localization in disordered cyclic structures - II: Multiple substructure modes, 7A131
XIE, XU: Static behaviors of long-span cable-stayed bridge (Japanese), 11A781
XIE, YM: Evolutionary structural optimization for dynamic problems, 5A692
- Shape optimization of interior cutouts in composite panels, 8A725
- Assessment of time integration schemes for nonlinear dynamic equations, 10A116
- Evolutionary structural optimization for problems with stiffness constraints, 11A773
- Unusual stability property of a direct integration algorithm, 11A73
- Evolutionary natural frequency optimization of thin plate bending vibration problems, 12A813
XIE, YULIANG: Effectiveness of shear reinforcement for normal and high-strength concrete beams, 9A912
XIE, ZHIYUM: Development of generalized plane-strain tensors for the concentric cylinder, 5A407
XIN XIN, GU: Calibration procedure for a system of two coordinated manipulators, 4A410
XIN, JUN: Effects of rotating gaseous flows on transient droplet dynamics and heating, 8A1145
XIN, RC: Forced convection in ducts with a boundary condition of the third kind, 3T1026
- Investigation and comparative study of the pressure drop in air-water two-phase flow in vertical helicoidal pipes, 5A915
- Natural convection heat transfer from helicoidal pipes, 10A1254
- Heat transfer of air-water two-phase flow in helicoidal pipes, 11A1169
XIN, SH: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518
XIN, SHIHE: Direct numerical simulations of 2D chaotic natural convection in a differentially heated cavity of aspect ratio 4, 6A901
XIN, Y-B: Technique to generate straight through thickness surface cracks and its application to studying dislocation nucleation in Si, 8A687
XIN, ZHOUPING: Convergence of vortex methods for weak solutions to the 2D Euler equations with vortex sheet data, 2A892
XING, JH: Experimental investigation of capillary instability: Results on jet stimulated by pressure modulations, 8A926
XING, OUYANG: Semianalytical polynomial interpolation method for the efficient solution of the radiative heat transfer equation, 1A1275
XING, WANG: Constitutive equation for unidirectional composites under tensile impact, 9A552
XING, XIUSAN: Nonequilibrium statistical theory of inhomogeneous damage, 2A666
XING, YINGJIE: Recording and processing of planar curve using clothoids - 1st report: Approximation error of ellipse curve and involute curve with clothoidal interpolation (Japanese), 2A547
- Recording and processing of planar curve using clothoids (2nd Report): Recording of cam profile with clothoidal interpolation (Japanese), 4A849
XING, ZHIZHUANG: Type of floating breakwater for lowering long-crested wave transmissivity for deep water applications (Chinese), 9A1049
XIONG , WENLIN: Automatic generation of unstructured quadrilateral mesh for complex domain (Chinese), 9A48
XIONG, YE-PING: Influence of flexible foundation on isolator wave effects, 6A174
XIQUES, KE: Adaptive FEMs for continuum damage modeling, 5A616
XIROUCHAKI, L: Development of photo-sensing bulge ductility tester, 2A1307
XISTRIS, GD: Natural vibration of a cavity backed rectangular plate using a receptor-rejector system model, 5A279
- Vibration of rectangular plates using plate characteristic functions as shape functions in the Rayleigh-Ritz method, 12A171
XIUGUI, YUAN: Crack problem of two bonded half orthotropic planes materials, 4A724
XIXUAN, WANG: Studies of multi-frequency digital controller of electromagnetic damper (Chinese), 3A170
XU , BOHOU: Exploration of substitution of repeated mode subspaces for closely spaced mode subspaces, 10A388
XU , ENTONG: Quadratic acceleration integration methods of structural dynamics equations (Chinese), 9A248
XU , QIANJUN: Stress analysis of a microelectronic component during manufacturing process (Chinese), 9T46
XU , RUIJUAN: Analysis of coupling sensitivity of unconventional responses for direct force control aircraft, 7A389
XU , SJ: Parameter identification approach using optimal exciting trajectories for a class of industrial robots, 7A460
XU , SUQIANG: Generalized variable approximation for geometry optimization of trusses (Chinese), 9A884
XU , XIANGDONG: Numerical simulation and investigation of human thermoregulation in cold environment, 7A1416
XU , YANSHEN: Location and modification of errors in structural dynamic models (Chinese), 3A173
XU, B: Instability of a cylindrical shell under three-point bending, 12A6
XU, BQ: Modified tree search algorithm for contact BEM-LCP approach, 9A480
XU, CHAOJIN: Seismic analysis of towers including foundation uplift, 8A1342
XU, CS: Nonlinear theory and vibration analysis of laminated truncated, thick, conical shells, 10A191
XU, DAO YI: Uniform asymptotic stability in terms of two measures for functional differential equations, 12T70
XU, GUO: Investigation of truss topology optimization under local buckling constraints (Chinese), 7A904
XU, H: Stochastic penalty function methods for nonsmooth constrained minimization, 7T383
XU, HOCKIN HK: Transitions in the mechanism of material removal in abrasive wear of alumina, 10A975
XU, HONG-QINQ: Real-time computation of the eigenvectors of a class of positive definite matrices, 12A82
XU, J: Binary model of textile composites - II: The elastic regime, 1A536
- Finite element simulation of powder consolidation in the formation of fiber reinforced composite materials, 1A19
- Rotatory and horizontal vibrations of a circular surface footing on a saturated elastic half-space, 3A107
XU, JH: Laser fantasy: From machining to welding, 12A689
XU, JIAN: Global bifurcations and chaos in a Van der Pol-Duffing-Mathieu system with three-well potential oscillator, 10A103
XU, JIAN-JUN: Interfacial wave theory for oscillatory finger formation in a Hele-Shaw cell: A comparison with experiments, 11A886
XU, JIAN-XUE: Stresses in the neighborhood of a crack tip under effects of electromagnetic forces, 8A525
- Global bifurcation characteristics of the forced van der Pol oscillator, 8A85
XU, JINCHAO: Algorithm for coarsening unconstructed meshes, 8A52
XU, KAIYU: Analysis of stability on elastic plates with initial imperfections, 6A495
XU, KANGMING: Three-dimensional solutions for coupled thermoelectroelastic response of multilayered plates, 4A1239
- Three-dimensional analytical solutions for coupled thermoelectroelastic response of multilayerd cylindrical shells, 9A647
XU, KEWEI: Prediction of notch fatigue limits in a compressive residual stress field, 10A739
XU, KQ: Linear path identification of general nonlinear systems, 6A273
- Convergent algorithm for harmonic response prediction of general nonlinear structures, 6A153
XU, L: Stress singularities at crack corners, 1A458
- Uniqueness in analysis of semirigid frames, 6A773
XU, LI: Design of practically stable n-dimensional feedback systems: A state-space approach, 11A294
XU, LIANGJI: Dynamic response of a servovalve controlled hydraulic motor driven centrifugal pump, 12A423
XU, LIMING: Fracture parameters for interfacial cracks: An experimental-FE study of crack tip fields and crack initation toughness, 2A651
XU, LUO-YU: Law of the transverse matrix crack growth in brittle polymeric matrix composite laminates under static loadings, 8A653
- Modifying stacking-sequence design to delay delamination and matrix cracking in laminated composites: The multi-delamination-interface design, 9A819
- Study on the characteristic curve of stiffness degradation caused by transverse matrix cracking in multidirectional composite laminates, 11A688
XU, QC: Zig-Zag piezoelectric actuators: Geometrical control of displacement and resonance, 7A425
XU, QIN: Numerical study of the flow over ellipsoidal objects inside a cylindrical tube, 11A897
XU, QING: Probabilistic model of multicomponent earthquake for rigid rectangular foundation (Chinese), 8A1341
XU, QINGYU: Partitioned direct integration methods for transient response of nonlinear rotor-bearing systems, 10A92
XU, R: Exact control of mechanical systems, 4T343
XU, RX: Practical stress expressions for stress concentration regions, 1A457
- Fatigue of cast aluminum alloys under constant and variable-amplitude loading, 9A758
XU, SF: Smallest singular value method for solving inverse eigenvalue problems, 7A79
XU, SHENGNAN: Prediction of propulsive power for ships with homogeneous hull and high speed (Chinese), 11A1014
XU, SHIBIN: Time series analysis for load identification by using impulse response function (Chinese), 4A99
XU, SHILANG: Mode II fracture testing method for highly orthotropic materials like wood, 10A838
XU, SIBIN: Dynamic testing on spring damping foundation (Chinese), 9A213
XU, TONG: Three-dimensional prestack full-wavefield inversion, 3A1296
XU, WY: Dual twin image effect from a waveguide hologram, 1A847
XU, X: Heat transfer in excimer laser melting of thin polysilicon layers, 3A1119
XU, X-P: Numerical simulations of dynamic interfacial crack growth allowing for crack growth away from the bond line, 8A674
- Numerical simulations of dynamic crack growth along an interface, 9A842
XU, XIAOFEI: Cumulative fatigue damage dynamic interference statistical model, 6A627
XU, XIAOLU: Transient response of a finite crack in an orthotropic strip under the in-plane shear impact, 10A818
XU, XIAOPING: Problems of the nonlinear unsymmetrical bending for cylindrically orthotropic circular plate - II, 7A611
XU, XINSHENG: Hamiltonian structure and 2D nonlinear waves in shallow water (Chinese), 7A265
XU, XIWU: Stress concentration of finite composite laminates weakened by multiple elliptical holes, 1A560
XU, XP: Experimental identification of a flow orifice using a neural network and the conjugate gradient method, 12A424
XU, XQ: Finite element analysis of plastic relaxation and plastic accumulation at second phase particles, 6A14
- Effects of particle morphology and spacing on the strain fields in a plastically deforming matrix, 6A416
XU, XU: Influence of temperature field of oil film of new type of thrust bearing on its optimal parameters (Chinese), 8A817
XU, XUEJUN: Assessment of potential strength of an induced earthquake by using fuzzy multifactorial evaluation, 3A1334
XU, Y: Full-field random bending strain measurement of a plate from vibration measurements, 10A174
XU, YANGSHENG: Dynamic coupling index for underactuated manipulators, 2A298
XU, YANGSHIENG: Real-time shared control system for space teleorobotics, 1A413
XU, YANKE: Model of maximum liquid rate of fluidized spray granulator (Chinese), 8A935
XU, YAo-nozzle corner cracks, 10A770
XU, YIZHONG: Approximate expression of K_{Imax} for sphere-nozzle corner cracks, 10A770
XU, YL: Determination of wind-induced fatigue loading on roof cladding, 1A749
- Parametric study of active mass dampers for wind excited tall buildings, 5A698
XU, YONGLIN: Self-similar crack expansion method for the stress intensity factor analysis, 12A738
XU, YUN-SHENG: Non-Fourier heat conduction in IC chip, 3A1109
XU, YUNSHENG: Experimental research on transient heat transfer in sand, 10A1422
XU, Z: Perturbation-incremental method for strongly nonlinear oscillators, 8A90
- Estimation of nonlinear damping coefficients from large-amplitude ship rolling motions., 9A961
XU, ZA: Computer simulation of mould filling for horizontal castings and its experimental validation, 2A552
XU, ZHENGYU: Seismic wave-field observations at a dense, small-aperture array located on a landslide in the Santa Cruz Mountains, California, 12A1385
XU, ZHONG: Renormalization group based k-ε turbulence model for flows in a duct with streng curvature, 5A972
XUAN, Y: Transient analysis of multipass crossflow heat exchangers, 10A1312
XUE, DAMING: Two-component sorption model and its application (Chinese), 8A848
XUE, DAWEI: Exact solution on the stress analysis of fillet welds, 7A495
XUE, DONGXIN: Relation between engine noise and crankshaft vibrations (Chinese), 9A234
XUE, G: Pretreatment of carbon fiber and its effect on adhesion in reinforced epoxy composites, 8A450
XUE, HUIYU: Combined FE-Riccati transfer matrix method for free vibration of structures, 8A30
XUE, KZ: Theoretical and experimental study of modal strain analysis, 9A212
XUE, MD: Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, 8A20
XUE, QINJI: Reciprocal sliding wear of SiC particle reinforced Al-Cu aluminum matrix composites against stainless steel, high speed tool steel and ceramics - I: Tribological properties and construction of tribo-maps, 12A909
- Wear of 2024 Al-Mo-SiC composites under lubrication, 12A920
XUE, QUNJI: Correlation among the tribological characteristic parameters of rare earth trifluorides and their electron structures, bond parameters, and thermodynamic parameters, 3A1004
- Antiwear and extreme pressure characteristics of 2-mercaptobenzothiazole derivative as the potential lubricating oil additive, 10A1229
- Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, 10A1233
- Effect of phosphorus-containing additives on the wear of aluminum in the lubricated aluminum-on-steel contact, 10T986
- Effects of diol compounds on the friction and wear of aluminum alloy in a lubricated aluminum-on-steel contact, 11A803
- Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, 11A808
- Tribological properties of SiC whisker and molybdenum particle-reinforced aluminum matrix composites under lubrication, 12A914
- Tribological properties and lubricating mechanisms of the rare earth complex as a grease additive, 12A1196
- Reciprocal sliding wear of SiC particle-reinforced Al-Cu aluminium matrix composites against stainless steel, high speed tool steel and ceramics - II: Wear mechanisms, 12A908
XUE, S-C: Numerical study of secondary flows of viscoelastic fluid in straight pipes by an implicit finite volume method, 2A958
XUE, T: Transient fields of pulsed transducers in solids, 6A708
- Numerical analysis of the radiated fields of ultrasonic transducers, 8A698
XUE, XIAOBO: Numerical simulations of mixing in a 2D periodic flow with buoyancy, 8A1097
XUE, Y: Self-organizing neural network approach to data-based modeling of fluid power systems dynamics using the GMDH algorithm, 6A343
XUE, YD: Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, 8A20
XUE, ZHENGZHONG: Iterative computation method for nonlinear forced vibration equation on helicopter main rotor load, 6A155

Y

YABE, A: Performance analysis of a metal-hydride heat transformer for waste heat recovery, 12A1434
YABE, H: Study on sliding accuracy characteristics of an externally pressurized gas-lubricated guide way: Fundamental sliding accuracy characteristics, 12A1190
YABUKI, T: Buckling modes of plate-girders curved in plan, 1A909
YABUMOTO, N: Analysis of moisture adsorbed on surface, 12T946
YABUSHITA, Y: Solidification of porous medium saturated with aqueous solution in a rectangular cell: II, 1A1373
YABUTA, Y: Direct contour mapping system with pattern recognizing faculties (Japanese), 5A341
YABUYA, M: Comparison of positioning resolution of feed drive devices for ultra-precision machine tools (Japanese), 9A704
YACAMINI, R: Torsional vibrations in electrical induction motor drives during start-up, 10A233

YACHI, T: Development of illumination system for detection of small particles with high illuminance using laser diode (Japanese), 7A763
YADA, T: Stress singularity in three-phase bonded structure, 12A501
YADAV, AK: Plotting of fringe contours from FE results, 3A33
- Classification of crack-tip isochromatics in orthotropic composites, 5A637
YADAV, JN: Computer aided detection of isomorphism among kinematic chains and mechanisms using the concept of modified distance, 9A1012
YADON, LN: Integrated force arrays: Theory and modeling of static operation, 5A350
YAESH, I: Optimum guidance with a single uncertain time lag, 3A355
YAGASAKI, K: Second-order averaging and Melnikov analyses for forced nonlinear oscillators, 8A91
- Simple feedback control system: Bifurcations of periodic orbits and chaos, 9A164
YAGAWA, G: Thermal mechanical, materials, and structural aspects of nuclear fission energy, 2A1271
- Application of nonlinear mixed integer programming as optimization procedure, 3A850
- Finite element solutions with feedback network mechanism through direct minimization of energy functionals, 8A35
- Direct analysis method for probabilistic fracture mechanics, 9A789
- Automated structural design based on knowledge engineering and fuzzy control, 9A953
- Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, 9A1002
- Further experimental verification of warm prestressing effect under pressurized thermal shock (PTS), 10A1336
YAGHOUBI, MA: Numerical study of convective heat transfer from a blunt plate at low Reynolds number, 3A1031
YAGI, M: Ohmic scaling based on current diffusive ballooning mode, 7A1146
- Circulating power of steady state tokamaks, 9A1202
YAGI, N: Discussion on stability of landslides considering on scatter of strength parameter (Japanese), 4A616
YAGI, R: Data processing and profile evaluation on roundness and cylindricity measuring instruments (Japanese), 2T714
YAGI, T: Simulation and visualization of the dynamic behavior of an overhead power system with contact breaking, 7A199
YAGISHITA, H: Study on the simulation of grinding process (2nd Report): Distribution of cutting edges on a grinding wheel surface (Japanese), 4T648
YAGOFAROV, OC: Investigating possibility of intensification of heat emission processes and prevention from sediment formation in energy plants of surface effect vehicles, 8A1204
YAGUCHI, M: Creep-fatigue damage assessment by subsequent fatigue straining, 11A652
YAHATA, H: Evolution of the Rayleigh-Benard convection in a rectangular box, 10A1261
YAHATA, N: Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of austenitic heat-resistant steel SUH36 against FE-base sintered alloy using plane specimens, 3A827
- Impact wear characteristics of engine valve and valve seat insert materials at high temperature: Impact wear tests of Martensitic heat-resistant steel SUH3 against FE-base sintered alloy using plane specimens, 9A1341
YAHIA, L: Study of the tensile properties of living skin equivalents, 6A1358
YAHIAOUI, K: Response and cyclic strain accumulation of pressurized piping elbows under dynamic in-plane bending, 8A432
- Response and cyclic strain accumulation of pressurized piping elbows under dynamic out-of-plane bending, 8A433
- Onset of ratcheting in pressurized piping elbows subjected to in-plane bending moments, 10A547
YAHSI, OS: Indentation of a cantilever beam or plate, 8A615
YAIRI, T: Autonomous generation of reflexion-based robot controller using inductive learning, 12A450
YAKUBENKO, PA: Absolute and convective instability of current-carrying jet of magnetic liquid, 4A1092
YAKUSH, SE: Turbulent buoyant thermal in a density-stratified atmosphere, 7A1222
YALCINTAS, M: Structural modeling and optimal control of electrorheological material based adaptive beams, 2A505
- Electrorheological material based adaptive beams subjected to various boundary conditions, 3T526
YALLAPRAGADA, SV: Reaching conditions for variable structure control with output feedback, 12A367
YAM, L-H: Theoretical and experimental study of modal strain analysis, 9A212
YAM, LH: Semi-analytical study of free vibration of composite shells of revolution based on the Reissner-Mindlin assumption, 5A137
- Experimental study on post-buckling behavior of slender column with fiber reinforced composite material, 12A610
YAMABUCHI, T: Finite element simulation of dynamic responses of piezoelectric actuators, 10A492
YAMACHI, H: Evaluation of the effect of rock bolts based on field measurement results (Japanese), 7A716
YAMADA, F: Numerical analysis of finite amplitude motion of waves and a moored floating body under severe storm conditions, 1A260
YAMADA, G: Analysis of free vibration of rotating disk-blade coupled systems by using artificial springs and orthogonal polynomials, 9A229
YAMADA, H: Aeroelastic design consideration of very long span suspension bridges by mode shape control (Japanese), 5A727
- Principle and application of scanning probe microscope (Japanese), 7T870
- Measurement of edge density profiles and fluctuations in the H-mode discharge of the compact helical system (CHS) with a thermal neutral lithium beam probe, 7A1150
- Two dimensional unsteady aerodynamic force measurement by combination of complex modal information under wind action (Japanese), 11A1037
YAMADA, K: Fatigue crack growth prediction model with load interaction effects using crack closure concept, 1T745
- Study on externally pressurized gas bearings with infinite stiffness - 2nd report: Experiments on the static characteristics of a circular thrust bearing (Japanese), 7A1012
- Nucleation of intergranular cracks during high temperature low cycle fatigue of SUS316 stainless steel, 11A636
- Linear quadratic regulator for structure under on-line predicted future seismic excitation, 12A1408
- Adaptive attitude control for an artificial satellite with mobile bodies, 12A380
YAMADA, S: Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part I: Computation of flow aroug high temperature low cycle fatigue of SUS316 stainless steel, 11A636
- Linear quadratic regulator for structure under on-line predicted future seismic excitation, 12A1408
- Adaptive attitude control for an artificial satellite with mobile bodies, 12A380
YAMADA, S: Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part I: Computation of flow around rectangular cylinders, 4A982
- Third-order upwind FE computation of the incompressible Navier-Stokes equations - Part II: Aerodynamic characteristics of a rectangular cylinder with an angle of attack, 4A983
- Development of manufacturing reinforced concrete segment by centrifugal compaction (Japanese), 10A892
YAMADA, T: Algorithm for computing fingertip positions of a multifingered hand in 3D, 6A365
- Stress sensitivity of damage evolution equation and mesh-dependence in local approach (Japanese), 7A796
- Elasto-plastic analysis of composite girder with inelastic behavior of shear connectors (Japanese), 11A752
- Visualization by Moire techniques (Japanese), 12T791
YAMADA, Y: Optical properties of thick, turbid media from picosecond time-resolved light scattering measurements, 1A1267
- Cutting performance of (Al, Ti)N coated high speed steel tools (Japanese), 9A705
- Application of a genetic algorithm to the optical characterization of propellant smoke, 10A1299
YAMAGATA, K: Lateral loading test of steel tubes-reinforced concrete composite bridge column (Japanese), 2T755
YAMAGATA, M: Aseismic structure of the foundations of super long span bridges (Japanese), 4A817
YAMAGATA, Y: Three-dimensional micro fabrication by precision cutting technique (Japanese), 4T642
YAMAGISHI, H: R-curve behavior for stable crack growth from indentation cracks in alumina (Japanese), 3A647
YAMAGUCHI , H: Study of a cylindrical magnetic abrasive finishing behaviors of magnetic abrasives and generating mechanism finishing pressure (Japanese), 9T737
YAMAGUCHI, A: Experiment on mixed lubrication of hydrostatic thrust bearings for hydraulic equipment, 5A1091
- SPLASH program for 3D fluid dynamics with free surface boundaries, 12A253
YAMAGUCHI, E: Constitutive Equations for Engineering Materials Volume 2: Plasticity and Modeling, 1R15
YAMAGUCHI, H: Study on a new internal finishing process by the application of magnetic abrasive machining: Discussion of the cylindricity (Japanese), 1A740
- Experimental study of spherical Couette flow in magnetic fluids: Torque characteristics for outer sphere rotation, 4T957
- Study on a new internal finishing process by the application of magnetic abrasive machining: Internal finishing of stainless steel tube and clean gas bomb, 6A581
- Monitoring of friction welded joint performance using bonding evaluation factor, 7T480
- New internal finishing process by applying magnetic abrasive finishing through the use of the pole rotation system: Processing principle with a few finishing characteristics, 9T733
- In-situ test of ground improvement sand piles method by measuring the process of dewatering (Japanese), 10T672
- Fracture behavior of unidirectional commingled-yarn-based carbon fiber-polyamide 6 composite under three-point bending, 11A666
- Static behaviors of long-span cable-stayed bridge (Japanese), 11A781
YAMAGUCHI, K: Plastic constitutive model for anisotropic materials and FE analysis of strain localization process, 3A460
- Microforming by photopolymerization (Japanese), 4T657
- Suppression of free surface roughening of metal with plastic deformation, 6A826
- Whisker behaviors and tool wear in cutting of unidirectional SiC whisker-reinforced plastic, 12A923
- Manufacturing of high aspect ratio micro structures using UV sensitive photopolymer, 12A703
YAMAGUCHI, M: Diesel combustion analysis based on two-zone model: Comparison between model analysis and experiment, 7T1341
- Polygonal deformation of roll-covering rubber, 9A278
YAMAGUCHI, N: Study on the vibrational characteristics of a tube array caused by two-phase flow - Part I: Random vibration, 1T257
- Study on the vibrational characteristics of a tube array caused by two-phase flow - Part II: Fluidelastic vibration, 1T265
YAMAGUCHI, S: Measurement of transiently changing flow rates in oil hydraulic column separation, 7T1189
YAMAGUCHI, T: Development of precision feed mechanism by applying principle of walking drive - 2nd report: Development of feed velocity control method and ultraprecision positioning system (Japanese), 2A337
- Optimization of grinding conditions with genetic algorithms, 3T629
- Magneto-optical disk drive robust servo system with model reference adaptive control, 3T391
- Realistic 3D left ventricular ejection determined from computational fluid dynamics, 4A1365
- Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, 9A397
- Effects of cardiac infarction on realistic 3D left ventricular blood ejection, 9A1447
- Predicting creep towards high-strength concrete, 9A498
- Development of 3D-measuring system by image processing: Application to dimensional inspection of small molded plastic electronic parts (Japanese), 9A873
- Development of a high speed non-circular machining NC-lathe for cutting a piston-head of a reciprocating engine by use of a new servomechanism actuated by electromagnetic attractive force (Japanese), 9A706
- Effect of the dewatered vertical drain method against soil liquefaction (Japanese), 10A655
- Fatigue behavior on split tee flange joints (Japanese), 11A831
YAMAGUCHI, Y: Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, 3A1049
YAMAGUTI, M: Study of small hole drilling under the feed with vibration (Japanese), 1A728
YAMAJI, K: Superconductivity in the two-chain Hubbard model including the interchain Coulomb interaction, 7T687
YAMALEYEV, NK: Motion of a body through a large-scale inhomogeneity in a stratified atmosphere, 4A962
YAMAMOTO, A: Quasi-unsteady study on wake interaction of turbine stator and rotor cascades, 5A1060
- Corrosion resistible coating with combination of ion plating and heat treatment for molten carbonate fuel cell separator, 6A620
YAMAMOTO, C: Study of computer aided consultation system for working postures using posture input puppet-like-device and visualization of joint torque (Japanese), 12A1486
YAMAMOTO, F: Flow Visualizaiiton and Image Processing of Multiphase Flows - 1995 ASME/JSME Fluids Eng Conf, 1N29
YAMAMOTO, K: Experimental study of the flow in a helical circular tube, 1A1059
- New evolutionary direction operator for genetic algorithms, 3T327
- Field observation of suspended sand concentration near the breaking point (Japanese), 3A888
- Conditional Fourier spectral method for direct numerical simulation of incompressible flows, 4A974
- Tribology in clean environment - Part I: Dust generation properties of silicon carbide ceramics, 6T806
- Flow induced vibration of a flexible weir due to fluid discharge: Effect of weir stiffness, 8A877
- Simultaneous measuring method for both volumetric flow rates of air-water mixture using a turbine flowmeter, 8A1035
- Trinomial generalized canter set model for isotropic turbulence, 10A1174
YAMAMOTO, M: Investigation of multiple-time-scale Reynolds stress model in homogeneous anisotropic turbulence, 5A968
- Operating characteristics of an externally pressurized gas lubricated piston ring, 5A1103
YAMAMOTO, N: Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, 11A1453
YAMAMOTO, R: Formulation of pre-extension in a practical stress-relaxation measurement of the plant cell wall, 6A1340
YAMAMOTO, S: Steel-iron double-layered cylinder liner produced by centrifugal casting, 3A634
- Numerical bearing capacity test by DEM on granular assemblies with sandbag-like reinforcement (Japanese), 7T703
- Propagation mechanism of ultrasonic waves in porous ceramics, 10A863
- Functions of additives (8): Solid lubricants, 10T1234
- Method of simultaneous analysis of waves propagating in multilayered media by BEM, 12A222
YAMAMOTO, T: Proceedings of the International Meeting on linear and nonlinear iterative methods and verification of solution, held at Matsuyama, Japan on July 6-9, 1993, 2A60
- Velocity variabilities and other physical properties of marine sediments measured by crosswell acoustic tomography, 3A308
- Imaging the permeability structure of a limestone aquifer by crosswell acoustic tomography, 3A1301
- Acoustic scattering in the ocean from velocity and density fluctuations in the sediments, 7A328
- Design of optimal digital feedback regulator based on first- and second-order information and its application to vibration control, 9A413
- Study of the universal Strouhal number over the wide Reynolds number flow range: Effect of surface roughness, 11A970
YAMAMOTO, Y: Effect of axial force on holographic measurement of complex elastic modulus, 1A848
- Development of multi-purpose ductile-regime machining system for ceramics and glasses (Japanese), 9A738
YAMAMURO, JA: One-dimensional compression of sands at high pressures, 7A697
- Undrained sand behavior in axisymmetric tests at high pressures, 7A694
- Drained sand behavior in axisymmetric tests at high pressures, 7A690
- Significance of particle crushing in granular materials, 9A657
YAMANAKA, H: Application of genetic algorithms to an inversion of surface-wave dispersion data, 11A1368
- Evaluation of interface in composites with short-fiber based on viscoelastic properties (Japanese), 12A543
YAMANAKA, K: Rheological approach to the analysis of blood coagulation in endothelial cell-coated tubes: Activation of the intrinsic reaction on the erythrocyte surface, 2T1299
- Stability of gyroelastic beams, 11A544
YAMANAKA, M: Gear grinding by vitrified-bonded CBN wheel of screw shape (Japanese), 2T551
YAMANAKA, T: Unsteady 3D natural convection in an inclined air slot with a hexagonal honeycomb core, 3A1049
- Cavity growth in polycrystalline materials under grain boundary diffusion creep and transition from cavity to crack, 3A664
YAMANE, K: Formation of turbulent eddies in jet diffusion flames, 11T1274
YAMANE, R: Instructional Fluid Dynamics - 1995 ASME/JSME Fluids Eng Conf, 2N42
YAMANE, S: Nonlinear oscillations of a cluster of bubbles in a sound field: Bifurcation structure, 1A1039
YAMANE, Y: Automation of skilled work by mechatronics system (Japanese), 1T439
- Effect of interaction of rodlike particles in semi-dilute suspensions under shear flow, 2A920
YAMASAKI, T: Two-dof design method of LQI servo systems: Disturbance rejection by constant state feedback, 10A427
YAMASHINA, H: Inspection and repair strategy in automated assembly systems (Japanese), 1A444
YAMASHITA, M: Corrosion resistance and rust structure of weathering steels and iron antiquities (Japanese), 6A619
- Growth behavior of sawtoothed interface under plane strain compression: Compression of similar and dissimilar blocks twinned (Japanese), 9A507

YAMASHITA, T: Graphical stability analysis of a control system having 2-input and 2-output fuzzy controller, 9A397
- Reduction of speed ripple due to transmission error of strain wave gearing by repetitive control, 9A1025
- Theory of the antiplane stress evolution in 2D, 9A1381
- Stress evolution: Creep and dynamic patterns, 9A1380
- Observation of light pulses at micro-fractures of solid and the temperature estimation of the part by spectral data (Japanese), 9A866
- Rhythmic motions of plants: Measuring rotational movements of the root and cell turgor pressures (Japanese), 12T1479
- Analysis of motion of body center during human stair gait using force plate, 12A1459
YAMAUCHI, GK: Effects of ingested atmospheric turbulence on measured tail rotor acoustics, 7A313
YAMAUCHI, H: Generalized Miner's number and probability of fatigue failure of concrete subjected to variable cyclic loads (Japanese), 2A574
YAMAUCHI, M: Dynamic behavior of oil film between piston ring and cylinder liner: Visualization of oil film rupture and measurement of oil film pressure using simulating rig, 6A1045
YAMAUCHI, Y: Effect of grinding on fatigue behavior of ceramics at ambient temperature, 3A628
YAMAZAKI, F: Seismic behavior of an RC retaining wall with EPS backfill based on earthquake observation and response analysis (Japanese), 1A1390
- Spatial correlation of earthquake ground motion based on dense array records (Japanese), 1T1381
- Response of rigid body assemblies to dynamic excitation, 3A1323
- Attenuation of earthquake ground motion in Japan including deep focus events, 3A1309
- Statistical analysis of peaks and directivity of earthquake ground motion, 4A1326
YAMAZAKI, H: Mechanism of rubber abrasion - Part 3:
How is friction linked to fracture in rubber abrasion?, 3A825
YAMAZAKI, K: Mathematical model of feed e mechanical system and friction for CNC machine tools (Japanese), 4A863
- Amorphous state formation and structural changes in α alumina by repeated rubbing, 4A837
- Stress analysis of junction of plate and shell built-up structures via special finite shell element, 10A614
YAMAZAKI, M: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
- Characteristics of soil reactions of an open lugged wheel under paddy soil conditions, 8A774
- Measurement of forces acting on 4WD-4WS tractor tires during steady-state circular turning in a rice field, 10A684
YAMAZAKI, T: Numerical simulation of forced wakes around a cylinder, 5A893
YAN , LILAI: Function space BFGS quasi-Newton learning algorithm for time-varying recurrent neural networks, 9A405
YAN, AM: Multiple-cracked fatigue crack growth by BEM, 1A836
YAN, B: Free convection from a horizontal moving sheet, 6A1077
- Boundary-layer flow around a submerged circular cylinder induced by free-surface traveling waves, 12A1108
YAN, BAOZHEN: Precision calorimetric studies of H_2O electrolysis, 1A1163
YAN, FUCHUN: New measuring technique of diesel spray (Chinese), 8A936
- Modeling of instantaneous temperature field in reactor (Chinese), 8A1165
YAN, HONG: Research on heat transfer of centrifugal fluidized bed dryer (Chinese), 9A1365
YAN, HONG-SEN: Kinematic design of differential devices for full time four-wheel-drive vehicles, 8A823
- Geometry design of globoidal cams with generalized meshing turret-rollers, 12A952
- Variable-speed method for improving motion characteristics of cam-follower systems, 12A954
YAN, HS: Algorithm for surface design and tool path generation in wire-cut electrical discharge machining, 2A561
- Experimental study of the effects of cam speeds on cam-follower systems, 9A994
YAN, JAN-YUAN: Inverse problem in simultaneously measuring temperature-dependent thermal conductivity and heat capacity, 2A1119
- Function estimation in predicting temperature-dependent thermal conductivity without internal measurements, 3A1106
- Inverse problem in predicting temperature dependent heat capacity per unit volume without internal measurements, 7A1249
YAN, LILAI: Powell's method applied to learning neural control of three unknown dynamic systems, 2A289
YAN, MT: Monitoring and self-learning fuzzy control for wire rupture prevention in wire electrical discharge machining, 5A317
YAN, WEI-MON: Combined buoyancy effects of thermal and mass diffusion on laminar forced convection in horizontal rectangular ducts, 7A1217
- Transient conjugated mixed convection inside ducts with convection from the ambient, 7A1220
YAN, WY: Approximate pole placement for acceleration feedback control of flexible structures, 6T298
- Gradient flow approach to computing a nonlinear discrete time quadratic optimal feedback gain matrix, 8T281
- H_∞ synthesis of robust current error feedback learning control, 12A335
YAN, XIAOJUN: Liquid-crystal transient technique for measurement of in-tube local condensing heat transfer coefficients, 1A1252
- Measurements of local heat transfer coefficients from a flat plate to a pair of circular air impinging jets, 12A1227
YAN, Y: Comparison of the fatigue behavior of 2D and 3D woven fabric reinforced composites, 7A781
YAN, YY: EHD augmentation of nucleate boiling at a Gewa-T surface, 11A1162
YANAGI, H: Mechanism and estimation of leakage through concrete crack (Japanese), 4A1302
YANAGIHARA, Y: Ultimate strength of the skin steel plates under compression in steel-concrete sandwich members (Japanese), 5A515
YANAGIMOTO, K: Reduction of vortex shedding noise in idling circular saws using self-jets of air through saw teeth, 6T254
YANAGISAWA, E: Stress strain relationship of sandy soils obtained from centrifuge shaking table tests (Japanese), 10A649
YANAGISAWA, M: Hardness and elasticity measurement of thin films with nanoindenter, 7A997
YANAGISAWA, N: Simplified analysis of rectangular cellular plates, 9A582
YANAI, H: Measurement of Young's modulus and stress analysis of a magnetic thin film, 7A868
YANAI, T: Three-dimensional videography of swimming with panning periscopes, 8A1452
YANAKIEV, D: Speed tracking and vehicle follower control design for heavy-duty vehicles, 9A430
YANAUCHI, Y: High-speed observation of ultra-high-speed submerged water jets, 10A1165
YANG , B: Modal controllability and observability of general mechanical systems, 5A298
YANG , CHUNIN: Numerical simulation and investigation of human thermoregulation in cold environment, 7A1416
YANG , CIANN-DONG: Analytical solution of 3D realistic true proportional navigation, 11T306
YANG , JS: Mixed variational principles in nonlinear electroelasticity, 5A542
YANG , M: Three-dimensional natural convection in an enclosure with an internal isolated vertical plate, 3A1047
YANG , MAOSENG: Overall stability and second-order analyses of tall building tubular structures with stepped cross-sections by FEMOL (Chinese), 9A624
YANG , MINGSHENG: Automatic FE mesh generation and condensation based on quadtree (Chinese), 9A47
YANG , WENBING: Analysis of deflection to laminated plate using beam eigenfunction (Chinese), 9T589
YANG , YIREN: Necessary and sufficient condition for the unconditionally stability of one-step Newmark's predictor-corrector algorithm (Chinese), 9A63
YANG , ZHENGLIN: Influence of cooling rates on thermal stresses in composite laminates during the cool-down phase of cure cycle (Chinese), 9A533
YANG , ZHONG: Using backpropagation neural networks to correct the stiffness matrix in a FE model (Chinese), 6A29
YANG, B: Strip distributed transfer function method for analysis of plates, 11A533
YANG, BAOCHANG: Study of dynamic and mechanical behavior of SiCp/Al composite under tensile impact, 2A442
YANG, BIN: Experimental investigation of soil seismic deformation property (Chinese), 8A1327
YANG, BINGEN: Distributed transfer function method for analysis of cylindrical shells, 2A110
YANG, BOYUAN: Numerical simulation of flow of highly viscoelastic flow in 3D varying thick slit channel, 11A860
YANG, C-Y: Condensation of R-12 in small hydraulic diameter extruded aluminum tubes with and without microfins, 5A1162
- Friction pressure drop of R-12 in small hydraulic diameter extruded aluminum tubes with and without micro-fins, 5A914
YANG, CH: Measurement of cyclic biaxial elasto-plastic stresses at notch roots, 5A438
YANG, CHI: Fourier-Kochin formulation of wave diffraction-radiation by ships or offshore structures, 1A1098
- Fourier representation of near-field free-surface flows, 8A1005
YANG, CHI-CHING: Analytical solution of generalized 3D proportional navigation, 11T307
- Analytical solution of 3D realistic true proportional navigation, 11T306
YANG, CHIH TED: Sediment transport in the Yellow River, 10T1061
YANG, CHIHDAR: Stress-strain analysis of single-lap composite joints under tension, 10A596
YANG, CHII-RONG: S udy on positioning accuracy of reciprocating friction drive system, 4A829
YANG, CHIUNG-GUEI: Parametric studies on cable-stayed bridges, 11A780
YANG, CIANN-DONG: Analytical solution of generalized 3D proportional navigation, 11T307
- Synthesis of optimal H_∞ controllers via H_2-based loop-shaping design, 12T360
- μ Synthesis using linear quadratic Gaussian controllers, 12A361
YANG, CS: Decomposing solid models into depression and protrusion features, 4A858
YANG, D: Macroscopic capillary pressure, 1A1353
YANG, DAH-CHING: Sliding mode control design in multi-input perturbed discrete-time systems, 12T368
YANG, DAJUN: Spectrum analysis of vibrations on rotary machine sets with more rotors (Chinese), 9A236
YANG, DAOQI: Parallel iterative nonoverlapping domain decomposition procedure for elliptic problems, 6A36
YANG, DEHUA: Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, 11A808
YANG, DONG-FANG: Transient natural convection of water near its density extremum in a rectangular cavity filled with porous medium, 4A1172
- Natural convection for the melting of ice in porous media in a rectangular enclosure, 11A1155
YANG, DT: Numerical investigation of heat flow and interfaces in the vertical zone-melting crystal growth, 7A1225
YANG, DY: Improved method for the application of blank-holding force considering the sheet thickness in the deep-drawing simulation of planar anisotropic sheet, 3A598
- Dynamic explicit-rigid-plastic FE formulation and its application to sheet metal forming processes, 9A701
- Study of void crushing in large forgings - I: Bonding mechanism and estimation model for bonding efficiency, 10A703
YANG, F: Fracture and fatigue crack growth behavior of SiC_w/2124Al composites, 11A681
YANG, FENGLIN: Two-component sorption model and its application (Chinese), 8A848
YANG, FUHENG: Iterative solution method for dynamic response of bridge-vehicles systems, 7A193
YANG, G: Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn++, 6A518
- Turbulent forced convection in a helicoidal pipe with substantial pitch, 10A1252
YANG, GONGPU: New method of discrete trajectory planning for robot manipulators, 4A411
YANG, GUITONG: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under f dcrete trajectory planning for robot manipulators, 4A411
YANG, GUITONG: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, 9A638
YANG, H: Decentralized feedback controllers for uncertain interconnected systems with Markovian jumping parameters, 1A382
- Vortex breakdown over a pitching delta wing, 1A1107
- Minimax production planning in failure-prone manufacturing systems, 4A422
YANG, HAITIAN: Load identification of inverse analysis with viscoelastic static displacement (Chinese), 8A403
- Effective modulus methods in 2D creep damage problems and FE analysis (Chinese), 11T19
YANG, HD: Numerical studies of optimal grid construction, 7A1302
YANG, HTY: Simple ATMD control methodology for tall buildings subject to wind loads, 6A729
- Formulation and experimental verification of a pneumatic FE, 9A74
YANG, HY: Optical fiber sensor system embedded in a non-circular cross-sectioned member, 11A349
YANG, IN-HONG: Scanning moire method for obtaining smooth fringe patterns, 5A683
YANG, J: Effects of acoustic excitations on active flutter control, 8A224
- Analytical method to determine the liquid-film thickness produced by gas-atomized sprays, 8T1135
- Laser phased array measurement of simulated solidified weld penetration depth, 11A835
YANG, J-M: Modeling and simulation of the effect of fiber breakage on creep behavior of fiber-reinforced metal matrix composites, 4A734
- Fatigue life prediction of fiber-reinforced titanium matrix composites, 8A583
YANG, JCS: Neural network for structural dynamic model identification, 6A274
YANG, JIANFU: Global vortex rings and asymptotic behavior, 1T987
YANG, JIANGANG: Application of the improved BP network to rotating machinery fault diagnosis (Chinese), 6A353
YANG, JING-TANG: High temperature heat transfer of separated flow over a sudden-expansion with base mass injection, 11A1138
YANG, JIYAO: Fast vortex methods for predicting wind-induced pressures on buildings, 4T295
YANG, JL: Response of an elastic, plastic turbular cantilever beam subjected to a force pulse at its tip: Small deflection analysis, 1A513
- Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, 11A183
YANG, JN: H_∞ control for seismic-excited build with acceleration feedback, 1A1388
- Hybrid control of seismic-excited bridge structures, 4A374
- Sliding mode control for nonlinear and hysteretic structures, 6A730
- Sliding mode control for seismically excited linear structures, 6A731
- Experimental verification of H_∞ and sliding mode control for seismically excited buildings, 6A1281
- Control of sliding-isolated buildings using sliding-mode control, 7A911
- Simple second-order approximation for stochastic crack-growth analysis, 8A603
- Control of seismic-excited buildings using active variable stiffness systems, 12A1399
YANG, JS: Saint-Venant's principle for linear elastic porous materials, 2A358
- Vibration of an elastic dielectric with piezoelectromagnetism, 4A594
- Shape control of vibrating simply supported rectangular plates, 6A138
- Vibration of a simply supported rectangular elastic plate due to piezoelectric actuators, 8A122
YANG, JUNG SEUNG: Local convective mass transfer on circular cylinder with transverse annular fins in crossflow, 6A1179
YANG, JUNJIE: Stability analysis on earth reinforcement by using the velocity field method (Japanese), 2A521
YANG, JY: Strength of metal-matrix composite joints, 1A952
- High-order streamline Godunov scheme for steady supersonic flow computation, 1A1027
- Computation of free surface flows - Part III: Steady supercritical flow using a generalized Lagrangian method, 8A891
YANG, KOON-HO: Dynamic stability analysis of a closed-loop flexible link mechanism, 11A552
YANG, L: Interactions between an idealized rotating string and stationary constraints, 1A144
- Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons, 6A1323
YANG, LEI: Mixed convection around a heated rotating horizontal square cylinder in a circular enclosure, 1A1208
YANG, LI-FARN: Slewing maneuvers and vibration control of space structures by feedforward-feedback moment-gyro controls, 5A332
- Damping augmentation for three-cable suspension system for structural testing, 10A205
- Synchronization of twin-gyro precession under cross-coupled adaptive feedforward control, 11A334
- Adaptive control of a zero-stiffness suspension system, 12A397
YANG, LIN: Effect of end notch on shear capacity of simply supported prestressed hollow core slabs: Numerical experiments, 4A807
YANG, LING: Load distribution in composite multifastener joints, 11A832
YANG, LISHENG: Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates, 5A769
YANG, LX: TV-shearography for measuring 3D-strains, 12A790
YANG, MENGLIN: New calorimeter for measuring rapidly thermal conductivities of the organic liquids and the electrically conducting liquids, 1A1162
YANG, MING: Mechanics of ventricular torsion, 10A1478
YANG, MING J: Thermal and concentration fields of burner-attached jet flames in cross flow, 9A1337
YANG, P: Non-Newtonian TEHL analysis of tilting-pad bearings subjected to inlet pressure build-up, 3A1100
YANG, PEIRAN: Time-dependent TEHL solution to centrally supported tilting pad bearings subjected to harmonic vibration, 12A1194
YANG, QF: Boundary element method based on time-stepping approximation for transient heat conduction in anisotropic solids, 8A62
YANG, QING-XIONG: Cumulative fatigue damage dynamic interference statistical model, 6A627
YANG, QING-XIONG: Large sample size experimental investigation on the statistical nature of fatigue crack initiation and growth, 9A776
YANG, QINGXIONG: Programming system of static strength reliability analysis for offshore platform structural system (Chinese), 9A905
- Statistical investigation of fatigue crack initiation and growth process based upon a large sample size experiment, 9A779

YANG, QI: Fatigue test and reliability design of gears, 12A729
YANG, R: Procedure for time-domain seismic analyses of concrete dams, 7A1381
YANG, R-J: Component mode synthesis-based design optimization method for local structural modification, 3A752
- Assessment of turbulence and chemistry models for film-cooled nozzle flows, 10A1175
- Numerical procedure for predicting multiple solutions of a spherical Taylor-Couette flow, 11A895
YANG, REIN-YEANG: Dynamic analysis of concrete box tubes subjected to torsion, 5A148
YANG, RJ: Topology optimization with superelements, 12T976
YANG, RT: Effect of member initial curvature on a flexible mechanism response, 7A601
YANG, RUEY-BIN: Elastic waves in a composite containing inhomogeneous fibers, 5A180
YANG, RY: Dynamic response of box tubes to combined shear and torsion, 6A1279
YANG, S: Titan IV motor failure and redesign analysis, 1A1346
- Interfacial circular crack in cylindrically anisotropic composites under antiplane shear, 2A653
- Improvement of thermal error modeling and compensation on machine tools by CMAC neural network, 7A742
- Accuracy enhancement of a horizontal machining center by real-time error compensation, 10A496
- Vibration characteristics and comparisons of automotive engine valves made from conventional and non-conventional materials, 10T1021
YANG, S-Y: Curvature-based beam elements for the analysis of Timoshenko and shear-deformable curved beams, 4A148
YANG, SANG KYU: Multi-resolution analysis on the interval with natural spline projection and uniform two-scale relation, 10A56
YANG, SHAU-HWA: Estimation of stress intensity factors in partially patched cracked composite laminates by multilayer hybrid-stress FEM, 5A33
- Multilayer hybrid-stress FE analysis of composite laminates with delamination cracks originating from transverse cracking, 12A12
YANG, SHENGRONG: Friction and wear behaviors of nitrogen ion-implanted polyimide against steel, 12A886
YANG, SHIAW-PYNG: Discrete-time model reference adaptive controller designs for robotic manipulators, 11A390
YANG, SHIH-MING: Dynamics of flight vehicle control surfaces with inertia coupling, 11A791
YANG, SHUZI: Model and a feature parameter used in diagnosis of early defects in rolling element bearings (Chinese), 4A391
YANG, SHYH-SHYAN: Transient 3D natural convection in a rectangular enclosure, 3A1048
YANG, SJ: Electrostatic harmonic microactuator for arterial plaque removal, 6A346
- Effect of progressive wear on the friction characteristics of nickel LIGA processed rotors, 10A961
YANG, SL: Numerical analysis of the flowfields in a staged gas turbine combustor, 2A1041
YANG, SM: Vibration control experiment of a slewing flexible beam, 5A335
- Application of single-mode optical fiber sensors in structural vibration suppression, 9A174
- Frequency domain control of single input-single output distributed parameter systems, 11T293
YANG, SS: Dual boundary integral equations for exterior problems, 9A108
YANG, SY: Euler solutions for transonic oscillating cascade flows using dynamic triangular meshes, 5A1073
- Least-squares FEM for incompressible flow in stress-velocity-pressure version, 5A891
YANG, SZE-GUANG: Limit sets of dynamical systems on spheres, 9T158
YANG, T-S: Finite-amplitude effects on steady lee-wave patterns in subcritical stratified flow over topography, 8A204
YANG, TING-QING: Singularities and explicit solutions of collinear crack problem in anisotropic media, 1A827
YANG, TYNG-LIN: Space shuttle liftoff pressure wave, 9A296
YANG, VIGOR: Liquid Rouspension system for gyroscopes with minimum electrical disturbing torque via nonlinear pre-compensation, 11A81
YANG, WEI: Two-dimensional contact on a piezoelectric half-space, 7A684
- Damage nucleation during electromigration along an isolated interface in an elastic medium, 8A609
YANG, WEI-TZEN: Design of static reactive power compensator using fuzzy sliding mode control, 8A338
YANG, WEN-JEI: New near-wall two-equation model for turbulent heat transport, 8A985
- Role of mainstream flow velocity in film cooling in a duct, 10T1251
YANG, X: Overload effects in environmental hydrogen induced fracture, 11A646
YANG, XIANGXIANG: Periodic heat transfer in the fins with variable thermal parameters, 9A1270
YANG, XIAO: Mathematical models and generalized variational principles of nonlinear analysis for perforated thin plates, 9A578
YANG, XIAOXIANG: Contour integral method for stress intensity factors of mixed-mode crack (Chinese), 9A797
YANG, XU: Experimental study of castings deformation (Chinese), 9A717
YANG, XUELIN: Variation principles of Love waves and the inversion technique for Love surface waves methods (Chinese), 6A181
YANG, Y-R: KBM method of analyzing limit cycle flutter of a wing with an external store and comparison with a wind-tunnel test, 4A293
YANG, YANG: Ray tracing over smooth elastic shells of arbitrary shape, 6A212
YANG, YANMAN: Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, 6A612
YANG, YC: Algorithm for surface design and tool path generation in wire-cut electrical discharge machining, 2A561
YANG, YEAN-TZONG: New control approach for platoon operations during vehicle exit-entry, 9A428
YANG, YEE-PIEN: Multiobjective optimization of hard disk suspension assemblies - Part I: Structure design and sensitivity analysis, 9A948
- Multiobjective optimization of hard-disk suspension assemblies - Part II: Integrated structure and control design, 9A949
YANG, YEONG-BIN: Impact formulas for vehicles moving over simple and continuous beams, 3A156
- Vehicle-bridge interaction analysis by dynamic condensation method, 3A157
- Tracing postbuckling paths of structures containing multi-loops, 4A566
- Simplified procedure for formulation of soil-structure interaction problems, 12A1396
YANG, YIQIAN: Dynamic response of laminated orthotropic spherical shells including transverse shear deformation and rotatory inertia, 11A520
YANG, YIREN: KBM method of flutter analysis with structural nonlinearity and the comparison with wind tunnel test (Chinese), 6A220
YANG, YONGDI: Experimental study on the growth of gravity currents (Japanese), 6A1242
YANG, YONGQING: Surface length scale contributions to the directional and hemispherical emissivity and reflectivity, 3A1128
YANG, YQ: Exact stationary solutions of stochastically excited and dissipated integrable Hamiltonian systems, 12A134
YANG, YS: Statistical mechanical model of solidification, 3A1121
YANG, YU-NENG: Joint displacement method for multiloop kinematic analysis, 6A359
YANG, YUE-TZU: Free convection heat transfer of non-Newtonian fluids over axisymmetric and 2D bodies of arbitary shape embedded in a fluid-saturated porous medium, 3A1071
- Natural convection of non-Newtonian fluids along a wavy vertical plate including the magnetic field effect, 11A1144
YANG, YUNG-TUN: Shear-wave velocity of the sedimentary basin in the upper Mississippi embayment using S-to-P converted waves, 12A1361
YANG, YY: Stress intensity factor and stress distribution in a joint with an interface corner under thermal and mechanical loading, 1A582
- Stress distribution in a dissimilar materials joint for complex singular eigenvalues under thermal loading, 1A1294
- Stress singularities in a bimaterial joint with inhomogeneous temperature distribution, 9A489
YANG, ZHEN-GUO: Effective method for analyzing interference effect of arbitrary multiple defects, 9A847
YANG, ZHENGWEN: Asymptotic analysis of extrusion process through tapering die, 1A713
- Perturbation analysis of extrusion of porous metal materials, 2A394
- Study of extrusion of sintered powder metals, 4A630
YANG, ZHIFEI: Mechanical structures of bamboos in viewpoint of functionally gradient and composite materials, 11A478
YANG, ZHOU: Turbulent-flow hydrostatic bearings: Analysis and experimental results, 1A1146
- Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part I: The model and perturbation analysis, 5A837
- Thermohydrodynamic analysis of process-liquid hydrostatic journal bearings in turbulent regime - Part II: Numerical solution and results, 5A838
YANG, ZUOSHENG: Self-adaptive FEM for solving 2D Euler equations on the unstructured meshes, 6A28
YANHENG, DING: Existence and multiplicity results for homoclinic solutions to a class of Hamiltonian systems, 2T62
YANICH, G: Optimization of novel mechanisms for driving active tools of agricultural tilling machines, 7T1018
YANKELEVSKY, D: Optimization problem solution in reliability analysis of reinforced concrete structures, 12A844
YANKELEVSKY, DZ: Repaired RC flat-slab-column subassemblages under lateral loading, 3A781
- Eccentric seismic pounding of symmetric buildings, 8A1339
- Soft layer to control soil arching above a buried structure, 9A680
YANKOV, VI: Study of hydrodynamics in the melt and dope extrusion process in the spinnerette channel, 6A559
YANO, A: Optimization of grinding conditions with genetic algorithms, 3T629
YANO, H: Characterization of carbon particulates in diffusion flames, 7T1314
YANO, T: Ultrasound pulse reflection mode measurement of nonlinearity parameter B/A and attenuation coefficient, 10A360
- Strongly nonlinear waves and streaming in the near field of a circular piston, 12A272
YANOWITZ, H: Three-dimensional computational analysis of complex launch vehicle configurations, 7A991
YANTA, W: Heat transfer measurement on a waverider at Mach 10 using fluorescent paint, 3A1076
YANUTIN, EG: Nonstationary plane nonaxisymmetric deformation of a multilayered cylinder, 9A474
YAO , WEIXING: Enumerating significant failure modes of a structural system by using automatic matrix force method (Chinese), 9T901
YAO, BIN: Adaptive control of robot manipulators in constrained motion: Controller design, 5A370
YAO, DAPING: Experimental technique for studying mixed-mode fatigue crack growth in solder joints, 12A716
- Fatigue crack initiation in solder joints, 12A707
YAO, J: Experimental investigation of microbursts, 12A1416
YAO, JIN: Dynamics of multi-dimensional detonation, 8A208
YAO, JJ: Micromachined, single-crystal silicon, tunable resonator, 3T393
YAO, LS: Dynamic effects of centrifugal forces on turbulence, 9A317
YAO, M: Flow visualization and heat transfer experiments in a turbulent channel flow obstructed with an inserted square rod, 5A1127
YAO, MAN: Study of feasibility of measuring oscillation power for mold friction in continuous casting (Chinese), 7A758
YAO, MEI: Quantitative description of temperature- and strain rate-dependence of yield strength of structural steels, 8A431
- Physical nature of drop-weight-test NDT, 8A685
YAO, MS: Nonlinear structural dynamic FE analysis using Ritz vector reduced basis method, 12A22
YAO, NANXUN: Study of system software of revolving solid measuring machine (Chinese), 8A339
YAO, PINGJING: New method for HENs with different film heat transfer coefficients: Pseudo-temperature (Chinese), 8A1192
YAO, SHAN: Research on itegrated system of casting technology CAD and numerical simulation (Chinese), 7A757
- Experimental study of castings deformation (Chinese), 9A717
YAO, TH-J: Response surface method for time-variant reliability analysis, 7A927
YAO, YAN: Thermodynamic properties of aqueous mixtures of LiCl and Li_2SO_4 at different temperatures, 1A1160
YAO, YL: Recursive calibration of industrial manipulators by adaptive filtering, 5A361
- How to determine critical Marangoni number in half floating zone convection, 11A1127
YAO, YQ: Diffracted effects due to guided modes on finite (truncated) structure elements, 3A227
YAO, ZHEN-HAN: Applications of the Trefftz method in linear elliptic boundary-value problems, 5A57
YAO, ZHENHAN: Model identification method of vibrating structures from incomplete model information, 6A121
YAO, ZUKANG: Concrete pavement layer moduli based on stable deflection, 6A546
YAP, CM: Crack tip and notch tip plastic zone size measurement by the laser speckle technique, 4A713
YAP, LT: NO_x formation in large-scale oxy-fuel flames, 8A1258
YAPO, JB: Numerical simulation of particle transport in planar shear layers, 6A939
YARAS, MI: Retained lift: Theoretical difficulties with the concept and an alternative explanation of observations, 5T1061
YARGIN, VS: Handbook of Physical Properties of Liquids and Gases, Augmented and Revised Edition, 10N46
YARIN, AL: Penetration of a rigid projectile into an elastic-plastic target of finite thickness, 2A164
- Onset of folding in plane liquid films, 7A1125
YARIN, LP: Mechanistic model for heat transfer from a wall to a fluid, 7A1205
- Gas-liquid combustion reactor theory (ideally stirred reactor), 7A1332
YARLAGADDA, S: Fiber contribution of modal damping of polymer matrix composite panels, 5A480
YARMAK, IL: Transient heat transfer in boiling of cryogenic liquids in a channel, 1A1246
YAROSHCHUK, VY: Integral invariant in the problem on an ellipsoid with a special distribution of mass rolling without slippage on a fixed plane, 5A72
YAROSHEVICH, E: Flexural vibrations and stability of beams with variable parameters (Russian), 3A120
YAROSHEVSKY, VA: Approximate probability estimation of aircraft large deviation trajectory parameters under random perturbation, 10T1203
YASHIMA, A: Strain localization analysis using a viscoplastic softening model for clay, 1A695
YASHKIN, MI: Computational models of transfer processes in disperse flows, 5A1165
YASINSKY, SA: Reduction of the model of mechanical system with variable reduced parameters, 9A403
YASNIKOV, GP: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303
YASSINE, A: Numerical simulation of viscoelastic complex flows using the stream-tube method and optimization algorithms, 4A966
YASTREBOV, VM: Summation of creating small-sized manual winches with planetary drive, 11A817
YASUDA, K: Contact mechanics of ultrahigh-molecular-weight polyethylene for artificial knee joint, 3A1400
- Particle separation using acoustic radiation force and electrostatic force, 9A352
- Effects of restressing on the mechanical properties of stress-shielded patellar tendons in rabbits, 11A1453
YASUDA, M: Development of microvibration testing device: Realizing microvibrational reference waves smaller than floor vibrations, 12A196
YASUDA, T: Aseismic optimization of nonlinear joint elements in boiler plant structures based on substructure synthesis method, 9A1016
YASUFUKU, N: Cyclic strengths of clay and sand by strain rate controlled cyclic triaxial test (Japanese), 4A612
- Engineering properties of carbonate sands and skin friction of pile in sands (Japanese), 4A598
YASUHARA, K: Liquefaction strength and post-liquefaction volumetric change of non-plastic silt (Japanese), 10A656
YASUI, K: Effects of thermal conduction on bubble dynamics near the sonoluminescence threshold, 3A937
YASUI, T: Articulated robot application in end milling of sculptured surface, 12A462
YASUNAGA, N: New trend of energy beam processing technology (Japanese), 7T770
YASUTOMI, S: Finding pedestrians by estimating temporal-frequency and spatial-period of the moving objects, 11T373
YATABE, R: Discussion on stability of landslides considering on scatter of strength parameter (Japanese), 4A616
YATES, DA: Measurement of the flow field in a diesel engine combustion chamber after combustion by cross-correlation of high-speed photographs, 9A1324
YATES, DL: Fretting fatigue in post-tensioned concrete beams, 9A918
YATES, JR: Model for sliding mode crack closure - Part I: Theory for pure mode II loading, 2A569
- Model for sliding mode crack closure - Part II: Mixed mode I and II loading and application, 2A570
- Local grid refinement method for determining stress intensity factors for cracks at notches, 10A816
- Model to predict the fatigue life of fiber-reinforced titanium matrix composites under constant amplitude loading, 11A635
- Determination of fatigue crack propagation rates under mixed mode (I + III) loading, 12A708
YATOMI, C: Active vibration control for flexible structures using a wave-absorbing control method, 12A137
YATSUI, K: Correct limit approximations for planar, cylindrical, and spherical blast waves, 4T280
YATSUYANAGI, Y: Equations of motion of vortex-current filaments, 9A1203
YATSUZUKA, K: Electrorheological property of a polyaniline-coated copolystyrene particle suspension, 1A964
YAVAS, O: Chaos in planar oscillations of a Toda particle, 10A97
YAVICH, D: Reptation model with segmental stretch - II: Steady flow properties, 2A839
YAVIN, Y: Open loop strategies for the control of a disk rolling on a horizontal plane, 4A362
YAVKIN, VB: Modeling processes in GTE combustors, 6A1201
YAWALE, SP: Ultrasonic velocity and elastic constant measurements in some borate glasses, 7A587
YAZ, E: Grammian assignment for stochastic parameter systems and their stabilization under randomly varying delays, 2A253
YAZAR, A: Hybrid high efficiency single-basin solar still, 12A1430
YAZDANI, N: Flexural and shear behavior of bridge pier caps, 9A917
YAZDANI, S: Constitutive theory for brittle solids with application to concrete, 7A808

YAZDCHI, M: Continuum model for dynamic damage evolution of anisotropic brittle materials, 10A808
YAZDI, JT: Analytical solution for 2D dynamic consolidation in frequency domain, 3A571
YE , QUYUAN: Coaxial interactions of two vortex rings or of a ring with a body, 3A892
YE, BINSHAN: Mass and volume fraction properties of pultruded glass fiber-reinforced composites, 1A565
YE, DU-YI: New approach to the prediction of fatigue notch reduction factor K_f, 9A763
YE, JIAN: Numerical simulation of particle concentration at the exit of a direct injected abrasive waterjet nozzle, 10A1123
YE, JIANQIAO: Three-dimensional vibration of laminated composite plates and cylindrical panels with arbitrarily located lateral surfaces point supports, 6A139
YE, JINCHUN: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
YE, LIN: Consolidation of GF-PP commingled yarn composites, 1A734
YE, LIN: Statistical model of residual strength and fatigue life of composite laminates, 2A581
- Consolidation of unidirectional CF-PEEK composites from commingled yarn prepreg, 3A638
- Influence of cooling rate on interlaminar fracture properties of unidirectional commingled CF-PEEK composites, 5A648
- Mode-I fracture behavior of adhesive joints - Part II: Stress analysis and constraint parameters, 5A653
- Statistical prediction of fatigue failure of fiber reinforced composite materials, 5A615
- Mode-I fracture behavior of adhesive joints - Part I: Relationship between fracture energy and bond thickness, 5A652
- Role of cooling pressure on interlaminar fracture properties of commingled CF-PEEK composites, 7A839
- Effective crack growth and residual strength of composite laminates with a sharp notch, 8A643
- Effective crack growth model for residual strength evaluation of composite laminates with circular holes, 8A644
- Fatigue life prediction of composite laminates using a stress redistribution function, 9A757
- Consolidation and interlaminar fracture properties of unidirectional commingled CF-PEEK composites, 10A790
- Notched strength and effective crack growth in woven fabric composite laminates with circular holes, 10A800
- Evaluation of mode-II fracture energy of adhesive joints with different bond thickness, 11A680
- Interlaminar fracture of stitched GFRP laminates, 12A756
YE, MEI-XIN: Nonlinear FE analysis of composite frames, 11A13
YE, NONG: Re-engineering the product development cycle and future enhancements of the computer integrated environment, 4A419
YE, Q: Wall shear stress determination from near-wall mean velocity data in turbulent pipe and channel flows, 10A1146
YE, R: Analysis of piezoelastic structures with laminated piezoelectric triangle shell elements, 6A507
YE, TIANQI: Hybrid changeable basis Galerkin technique for nonlinear analysis of structures, 4A812
- Adaptive parameter incremental method for the analysis of snapping problems, 6A732
YE, W: Complex variable formulations for usual and hypersingular integral equations for potential problems: With applications to corners and cracks, 10A827
YE, XIU: Derivation of minimal support basis functions for the discrete divergence operator, 4A975
YE, Z: Theoretical description of possible detection of swimbladdered fish in forward scatter, 3A276
YE, ZHEN: Acoustic dispersion and attenuation relations in bubbly mixture, 1A301
- Acoustic scattering from fish swimbladders, 7A336
YE, ZHIMING: Maximum strain theory for mixed mode crack propagation in anisotropic solids, 2A665
YEATMAN, EM: Demonstration of 3D microstructure self-assembly, 5T347
YEDLIN, MJ: Incorporation of absorbing boundary conditions into acoustic and elastic wave propagation problems solved by spectral time-marching, 12A306
YEE, E: Vertical structure of concentration fluctuation statics in plumes dispersing in the atmospheric surface layer, 5T1361
- Multiscaling properties of concentration fluctuations in dispersing plumes revealed using an orthonormal wavelet decomposition, 11A1434
YEE, JENG-HWA: Stellar alignment of the high resolution Doppler image, 5A242
YEE, KC: Effect of void shape on the macroscopic response of nonlinear porous solids, 8A420
YEE, R: Probabilistic model for initiation and propagation of surface cracks in welded joints, 1A772
YEE, ZEE: Flight test of radar altimeter enhancement for terrain-referenced guidance, 1T394
YEGORUSHKIN, SA: Unsteady processes in aerospace power units with stage separation, 12A1327
YEH, CHING-SHIH: Inverse problem of rectangular plates subjected to elastic impact - Part I: Method development and numerical verification, 5A188
YEH, CP: Stress analysis of printed circuit boards with highly populated solder joints and components: A micromechanics approach, 12A1273
YEH, DORTHEA: Computer evaluation of high order numerical schemes to solve advective transport problems, 4T50
YEH, G: Fourier analysis and dynamic optimization of the Petrov-Galerkin FEM, 5A25
YEH, GOUR-TSYH: Computer evaluation of high order numerical schemes to solve advective transport problems, 4T50
- Finite element modeling for land displacements due to pumping, 7A696
- Lagrangian-Eulerian method with adaptively local zooming and peak-valley capturing approach to solve 2D advection-diffusion transport equations, 9A1306
- Particle tracking technique for the Lagrangian-Eulerian FEM in multi-dimensions, 9A66
YEH, HSI-HAN: Observer-based compensators for fixed-order H_∞ control, 12A353
YEH, HSIEN-YANG: Stress failure criterion for laminated composites, 12A759
YEH, HUND-DER: Finite element modeling for land displacements due to pumping, 7A696
YEH, KAI-YUAN: Exact displacement solution of arbitrary degree paraboloidal shallow shell of revolution made of linear elastic materials, 10A610
YEH, KY: Vibration analysis of Timoshenko beams with non-homogeneity and varying cross-section, 4A160
YEH, MENG-KAO: Buckling of laminated plates with adhesive joints, 1A654
- Buckling and postbuckling of spherical shells with apical cutout under ring load, 2A497
YEH, R: Surface-micromachined components for articulated microrobots, 11A361
YEH, RONG-HUA: Errors in 1D fin optimization problem for convective heat transfer, 12T1261
YEH, SY-LIN: Composite adaptive control with flexible quantity feedback for flexible-link manipulators, 10A485
YEH, YC: Full-scale viscoelastically damped steel frame, 2A1254
YEH, YEONG TEIN: Numerical modeling of fault-zone trapped waves: Acoustic case, 6A1285
YEH, ZM: Study of backlash on the motion accuracy of CNC lathes, 8A555
YEHEZKELY, E: Nonlinear flutter analysis of missiles with pneumatic fin actuators, 11A226
YELKENCI, T: Definition of crack problems in elasticity, 9A786
YELLOWLEY, I: Regulation of position error in contouring systems, 10A489
YEMELYANOV, SI: Step fracture analysis based on the energy balance equation in integral form, 10A840
YEN, BK: Influence of water vapor and oxygen on the tribology of carbon materials with sp^2 valence configuration, 10A967
- Model for the abrasive wear of fiber-reinforced polymer composites, 12A906
YEN, CHING-SHIH: Inverse problem of rectangular plates subjected to elastic impact - Part II: Experimental verification and further applications, 5A189
YEN, CHUNG-BING: Three-dimensional asymptotic analysis of anisotropic inhomogeneous and laminated cylindrical shells, 5A508
YEN, J: Plane generation strategies for a knowledge-based automated process planning system, 4A416
YEN, JING G: Analytical and experimental investigation of the effect of mast-bending coupling on pylon stability, 6A1034
YEN, JYR: Joint characteristics of traditional Chinese wooden frames, 12A991
YEN, KZY: Suppression of chatter vibration in inner-diameter cutting, 9A228
YEN, T: Hi - I: Structural modeling and modes of failure, 7A924
YEN, TSONG: Analysis of concrete placement load effects using influence surfaces, 9A907
YEN, WEN J: Interactions between inclusions and various types of cracks, 8A666
YEN, YNA: Joint characteristics of traditional Chinese wooden frames, 12A991
YENIKEEV, RC: Loading surface effect vehicle during flight over non-regular sea wave, 8A230
YENUTIN, GV: Experimental investigation of turbulent friction on surfaces with longitudinal discontinuous ribiets, 10A1176
YEO, HWAN-GON: Determination of ignition delay times in mixtures of ethylene oxide, oxygen, and argon behind a reflected shock, 12A1300
YEO, KS: Strong interaction between a buoyancy bubble and a free surface, 7A1092
YEO, TAEIN: Finite element analysis of the stability of static thermoelastic contact, 8A1159
YEOM, DI: Numerical analysis of the elastic-plastic behavior of pressure vessels with ellipsoidal and torispherical heads, 1A926
YEOMANS, L: Influence of temperature on the slip velocity of semidilute xanthan gum solutions, 4A881
YEOW, YL: Applications of maximum entropy method in capillary viscometry, 9A1046
YEREMEYV, PG: Thin sheet metal (membrane) suspended roof structures, 10A613
YEREMY, ML: Matched-field source localization in a range-dependent environment, 6A265
YERKES, KL: Behavior of a meniscus subjected to transient accelerations for increasing capillary numbers, 1A1283
YERMOLAEV, VP: Disturbance growth control in a boundary layer, 10A1134
YETTER, RA: Numerical simulation of laser ignition of an isolated carbon particle in quiescent environment, 11A1272
YETTRAM, AL: Cancellous bone stresses surrounding the femoral component of a hip prosthesis: An elastic-plastic FE analysis, 1A1472
- Stress and strain distribution within the intact femur: Compression or bending, 7A1407
YEUAN, JJ: Shock-wave and boundary-layer interactions with bleed - Part I: Effect of slot angle, 4A1028
- Shock-wave and boundary-layer interactions with bleed - Part 2: Effect of slot location, 4A1029
- Flow characteristics in boundary-layer bleed slots with plenum, 8A947
YEUNG, P-K: Effect of subgrid models on the computed interscale energy transfer in isotropic turbulence, 8A975
YEUNG, RONALD W: Interaction of transient waves with a circular surface-piercing body, 5A221
YEUNG, WING KWONG: A priori estimates and convergence for the discrete forward and inverse problems of reflection seismology, 7A1369
YEVTUSHENKO, A: Plane quasi-stationary thermal problems with convective boundary condition, 6A1176
YEVTUSHENKO, AA: Stochastic contact model of rough frictional heating surfaces in mixed friction conditions, 3A821
- Interaction of frictional heating and wear at a transient sliding contact, 4A437
- Approximate solution of the thermoelastic contact problem with frictional heating in the general case of the profile shape, 7A503
- Stressed state of a laminated elastic composite with a thin linear inclusion, 7A841
- Fast-moving heated half-cylinder over the surface of a half-space, 12A1274
- Investigation of friction-induced thermal processes for some non-Hertzian fast-moving plane contacts, 12A892
YI , SHENGCHUANG: Overall stability and second-order analyses of tall building tubular structures with stepped cross-sections by FEMOL (Chinese), 9A624
YI, DEQING: Variation principles of Love waves and the inversion technique for Love surface waves methods (Chinese), 6A181
YI, FAHUAI: Note on the classical solution of a 2D superconductor free boundary problem, 11A560
YI, KW: Numerical analysis of molten metal shape in cold crucibles by 3D FEM, 8A1170
YI, QIAN: Turbulent flow simulation of a runner for Francis hydraulic turbines using pseudo-compressibility, 12A1183
YI, SUNG: Nonlinear thermo-viscoelastic analysis of interlaminar stresses in laminated composites, 9A1289
YI, W: Cylindrical shells under partially distributed radial loading, 7A617
YI, ZHIJIAN: Exact solutions of elastic-plastic crack line field for mode II plane stress crack, 6A649
YIANNESKIS , M: Velocity characteristics of steady flow through a straight generic inlet port, 2A960
YIANNOPOULOS, AC: Simplified solution for stresses in thick-wall cylinders for various loading conditions, 12A594
YIH, CHIA-SHUN: Kinetic-energy mass, momentum mass, and drift mass in steady irrotational subsonic flows, 2A901
- General solution for interaction of solitary waves including head-on collisions, 3A200
YILBAS, BS: Study into a numerical solution for a pulsed CO_2 laser heating process, 3A1111
- Kinetic theory approach for laser pulse heating process, 7A765
- Active cooling of a hypersonic plane using hydrogen, methane, oxygen and fluorine, 8A1006
- Numerical approach to pulsed laser heating of semi-infinite aluminum substance, 10A1292
- Study into the effect of beam waist position on hole formation in the laser drilling process, 11A622
YILDIRIM, N: Critical submergence for intakes in open channel flow, 6T873
YILDIRIM, V: Investigation of parameters affecting free-vibration frequency of helical springs, 5A133
YILDIZ, B: Method increasing preciseness of finite differences system and its application, 7A47
YILDIZ, M: Modeling the heat and mass transfer analysis during oil-frying of cylindrical sausages, 2A1125
YILMAZ, C: Evaluation of Surgu dam response during May 5, 1986 earthquake, 5A1319
YILMAZ, O: Hydrodynamic design of moored floating platforms, 6A1010
YILMAZ, T: Equation for laminar flow heat transfer for constant heat flux boundary condition in ducts of arbitary cross-sectional area, 3T1025
- General equation for the design of capillary tubes, 9A1271
YIM, SCS: Chaotic roll motion and capsize of ships under periodic excitaion with random noise, 7A200
- Parameter identification of nonlinear ocean mooring systems using the Hilbert transform, 8A149
- Stochastic response of offshore structures excited by drag forces, 10A939
- Analysis of a nonlinear system exhibiting chaotic, noisy chaotic, and random behaviors, 12A107
YIM, WOOSOON: Inverse force and motion control of constrained elastic robots, 5A372
YIN , ZONGZE: Implementation of the mesh generator for adaptive multigrid FEM (Chinese), 9A57
YIN, ANXUE: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161
YIN, FUXIN: Condensed method for linear complementary equations of elasto-plastic problems, 6A385
YIN, HONGCHAO: New explanation of cause of heat convection of gases under micro-gravity (Chinese), 8A1082
- New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), 8A286
YIN, J: Coefficient of permeability from AC electroosmosis experiments - II: Results, 10A665
- Coefficient of permeability from AC electroosmosis experiments - I: Theory, 10A664
YIN, JIANSHENG: Buckling of orthotropic plates with free and rotationally restrained unloaded edges, 5A526
YIN, L: Damage-monitoring in composite laminates by piezoelectric films, 9A562
YIN, MING: Renormalization group based k-ε turbulence model for flows in a duct with strong curvature, 5A972
YIN, WAN-LEE: Interfacial thermal stresses in layered structures: The stepped edge problem, 3A1180
YIN, X: Conjugate Graetz problem with axial conduction, 11T1106
YIN, XIEYUAN: Stability analysis of slowly divergent swirling flow - I: Theory, 7A1121
YIN, Z-M: Rotation of the principal stress directions due to earthquake faulting and its seismological implications, 3A1314
YIN, ZE-YONG: Pseudo element method for solving matrix with elementary operation and its application, 1A905
YIN, ZY: Life study of nickel-based single crystal turbine blades: Viscoplastic crystallographic constitutive behavior, 7A533
YING , HUAIQIAO: Zoom FFT spectrum by Fourier transform (Chinese), 3A57
YING, JING: Analysis of the influence of main control parameters in the transient response calculation (Chinese), 6A8
YING, R: Turbulence modeling over 2D hills using an algebraic Reynolds Stress expression, 8T1366
YING, SS: Nearly nonminimal linear-quadratic-Gaussian compensators for reduced-order control design initialization, 6T302
- Reduced-order compensation using the Hyland-Bernstein optimal projection equations, 8T304
YING, TN: Asperity-asperity friction as measured by a two-ball collision apparatus, 6A833
YING, YP: Probabilistic approach to applications of the R6 structural integrity assessment method, 10A757
YING, ZUGUANG: Exact residual modes and their synthesis techiques (Chinese), 10A201
YIP, HCL: Thyroid diagnosis by thermogram sequence analysis, 3A1415
YIP, M-C: Notch effect on two-level cumulative low-cycle fatigue life under different biaxial loading mode sequences, 5A598
YIP, MING-CHUEN: Biaxial fatigue crack initiation life prediction of solid cylindrical specimens with transverse circular holes, 9A741
YIP, WK: Statistical modeling of microcracking in concrete under compressive cyclic loading, 4A694
YIP, YUEN CHEONG: Development of simple, robust FEs based on refined theories for thick laminated beams, 8A12
YISHENG, W: Fatigue crack closure measurements on 2024-T3 sheet specimens, 2A585
YIU, KFC: Simultaneous viscous-inviscid coupling via transpiration, 1T1010
YLATALO, S: Submicron fly ash penetration through electrostatic precipitators at two coal power plants, 9A1347
YODA, T: Elasto-plastic analysis of steel structures under cyclic loading using minimum residual displacement method (Japanese), 9A214
- Application of neural networks to multiobjective optimization (Japanese), 11A717
YOGANANDAN, N: Human head-neck biomechanics under axial tension, 11A1454

YOGANATHAN, AP: Model based on dimensional analysis for non-invasive quantification of valvular regurgitation under confined and impinging conditions, 6T1348
- How sensitive are jet centerline velocities to an opposing flow?: Implications for using the centerline method to quantify regurgitant jet flow, 12A1474
YOKOBORI JR, AT: Theory of osteogenesis behavior based on calcium diffusion theory, 6T1343
YOKOHATA, T: Wear resistance of N+-implanted silicon investigated by scanning probe microscopy, 5T789
YOKOI, M: Band brake squeal, 10A1004
YOKOI, R: Experimental study on seismic responses of piping systems with friction - Part 2: Simplified analysis method on the effect of friction, 5A1321
YOKOI, T: Mechanical properties of the composite beam using the permanent form reinforced with CFRP and its application to the pier (Japanese), 4T517
- Numerical study on the generation of downgoing S-waves by a vertical force acting close to a step-like topography, 6A1252
YOKOI, Y: Failure diagnostic system on air-operated control valves using neural network, 6A354
YOKOMICHI, I: Impact damper with granular materials for multibody system, 7A211
YOKOMIZO, S: Fundamental study on electric field assisted biomachining (Japanese), 11A620
YOKOTSUKA, T: Diamond synthesis on a substrate rotated at high speed (Japanese), 12A685
YOKOYAMA, K: Evaluation of friction torque and heat quantity generated in spindel (2nd Report): Influence of design parameters upon heat quantity evaluated with an improved measuring system (Japanese), 5A812
- Evaluation of friction torque of rolling bearing (Japanese), 9A1001
YOKOYAMA, R: Optimal sizing of a heat pump-thermal storage system based on the linear programming method, 3A1164
YOKOYAMA, T: Transient torsional waves in stepped circular bars: Two-dimensional numerical analysis and its experimental verification, 7A221
YOKOYAMA, Y: Consideration on factor of safety in thickness design of geomembrane used as a liner subjected to deformation (Japanese), 7T702
- Methodology of evaluating a frictional coefficient and a deformation modulus based on geosythetics pull-out tests (Japanese), 10A666
- Uplift behavior of piles with enlarged base in sand (Japanese), 10A674
YOKOZEKI, S: Visualization by Moire techniques (Japanese), 12T791
YOMOGIDA, K: SH-wave Green tensor for homogeneous transversely isotropic media by higher-order approximations in asymptotic ray theory, 10A246
YON, S: Impulsive start of a symmetric airfoil at high angle of attack, 7A1154
YONEDA, H: Response of a centrifugal pump to fluctuating rotational speed, 5A1026
YONEDA, J: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-Stwave Green tensor for homogeneous transversely isotropic media by higher-order approximations in asymptotic ray theory, 10A246
YON, S: Impulsive start of a symmetric airfoil at high angle of attack, 7A1154
YONEDA, H: Response of a centrifugal pump to fluctuating rotational speed, 5A1026
YONEDA, J: Physiological response (plasma cyclic AMP) and a psychological response (STAI-A-State) to noise exposure and/or calculation task, 3A287
YONEDA, M: Experimental investigation on wake galloping appeared in tandem cables of cable-stayed bridges subjected to wind in skewed direction (Japanese), 10A914
YONEYAMA, H: Consideration on design for tunnel pre-lining (Japanese), 10A918
YONEYAMA, T: New iterative method to solve optimal control problems with terminal constraints, 6T286
YONG, LIU: Automatic mesh generation for computing symmetric local stresses by 2D-viscoplastic BEM with modified transfinite method, 4A69
YONG, WAN: Friction and wear characteristics of P-containing antiwear and extreme pressure additives in the sliding of steel against aluminum alloy, 3A824
YONG, WEN-AN: Existence and asymptotic stability of traveling wave solutions of a model system for reacting flow, 9T1174
YONG, YOOK-KONG: Higher-order, partial hybrid stress, FE formulation for laminated plate and shell analyses, 2A482
- Multi-mesh, preconditioned conjugate gradient solver for eigenvalue problems in FE models, 4A35
- Numerical algorithms for solutions of large eigenvalue problems in piezoelectric resonators, 9A651
YONG, Z: Rational source of plane fractals and its application to fragmentation analysis of thin plates, 8A682
YONG, ZHU: Evolution equations for nonlinear waves in a three-layer fluid model, 4A257
YOO, CH: Shear buckling coefficients of plate girder web panels, 9A629
YOO, DJ: Dynamic explicit-rigid-plastic FE formulation and its application to sheet metal forming processes, 9A701
YOO, HOSEON: Analytical solutions to a 1D finite-domain model for stratified thermal storage tanks, 11A1238
YOO, JAISUK: Finite-element analysis of solidification of aluminum with natural convection, 3A633
YOO, JY: Hybrid numerical method for Navier-Stokes equations based on simple algorithm, 1A1222
YOO, RAE-HAK: Elastic response of columns after sudden loss of bracing, 10A624
YOO, S: Measurement of turbine blade-tip rotordynamic excitation forces, 5A1058
YOO, SEONG-HO: Influence of particle refractive index on the lower detection limit of light scattering aerosol counters, 12A1340
YOON, BI: Transient thermoelastic analysis of composite brake disks, 5A1188
YOON, BYUNG-IL: Axisymmetric analysis of transient thermoelastic behaviors in composite brake disks, 6A1161
YOON, DH: Effect of growth atmosphere on convection in $LiTaO_3$ melt, A1224
YOON, HJ: Magnetic fluid grinding of ceramic balls, 5T830
YOON, JY: Application of turbulence models to separated flow over rough surfaces, 1A1050
- Numerical model of flow in ice-covered channel, 6A874
- Numerical model of turbulent flow over sand dune, 6A878
YOON, KEE-BONG: Metallographic study on rolling contact fatigue of 0.44%C - 1.71% Mn induction-hardened bearing steels, 10A981
YOON, KWI-HYON: Three dimensional eighth-order elastic finite-difference modeling of refraction and strong-motion data from the Coyote Lake Region, California, 12A1389
YOON, KY: Dynamic load analysis of spur gears using a new tooth profile, 8A805
YOON, S: Stability and accuracy analysis of Baumgarte's constraint violation stabilization method, 5A95
YOON, SANG-JOON: Design optimization of the taper-flat slider positioned by a rotary actuator, 5A824
YOON, SH: Flow and heat transfer
rements of a wall attaching offset jet, 12A1226
YOON, YJ: Parametric random excitation of nonlinear coupled oscillators, 4A123
YOON, YONG-SAN: Semi-active suspension with preview using a frequency-shaped performance index, 4A381
- Feedforward neuro-controlled active suspension using frequency and time-mixed shape performance index - Part 1: Control logic and performance, 8T327
- Algorithm to identify the type of dof in kinematic chains, 9A134
YOON, YOUNG-SOO: Assessment of translational-torsional coupling in asymmetric uniform wall-frame structures, 2A782
YORK, BJ: Upwind unstructured scheme for 3D combusting flows, 11A1297
YORK, CB: Wave propagation along longitudinally periodically supported or stiffened prismatic plate assemblies, 2A154
- Influence of continuity and aspect-ratio on the buckling of skew plates and plate assemblies, 9A625
YORKE, JA: Wada basin boundaries and basin cells, 7A118
YORTSOS, YC: Coupling in a model porous medium geometry: Effect of fluid contact area, 8A1309
- Pore-network study of bubble growth in porous media driven by heat transfer, 11A1186
YOSHIDA, A: Numerical method for nonlinear interaction between Stokes wave and coastal structures (Japanese), 6A216
YOSHIDA, H: Experimental and computational study of turbulent heat transfer characteristics in serrated channel flow, 5A1126
- Micromechanics-based continuum
odel for rock masses and analysis of the excavation of underground power cavern (Japanese), 10A681
YOSHIDA, I: Identification of conditional stochastic Gaussian field, 7A70
YOSHIDA, M: Development of core technologies for laser repairing of surface defects of steel billet (Japanese), 2A324
- Automatic detection of cracks on ceramic Al_2O_3 using diffusion of laser light, 3A738
- Development of scanning detection system for cracks on Al_2O_3 ceramics (Japanese), 5A618
- Study for crack detection technique on black color ceramics using FID, 9A876
- Study for crack detecting technique on ferrite ceramics by scanning detecting FID (Japanese), 11A714
- Development of optical measuring equipment for diameter of small and deep hole (Japanese), 11T706
YOSHIDA, N: Evaluation of deformation-strength properties of in-situ cement-treated soils (Japanese), 2A531
YOSHIDA, S: Structural optimization by density distribution for maximization of natural frequency, 8A726
- Bayesian analysis of fatigue life distribution including censored data (Japanese), 9A761
- Experiences of shape forming process: Experiments and numerical simulations, 11A585
YOSHIDA, T: Development of vibrating reed machine for measuring Young's modulus of thin films (Japanese), 7A895
- Perforated trapezoidal fins for tube-in-fin heat exchangers: Heat transfer and pressure drop characteristics, 8A1193
YOSHIDA, Y: Study for a new type internal gear pump, 9T1241
- Study of vaneless diffuser rotating stall based on 2D inviscid flow analysis, 9A1238
- Source process of the 1995 Kobe earthquake: Determination of spatio-temporal slip distribution by Bayesian modeling, 12A1362
YOSHIIE, K: Tension of elastic solid with elastic circular-cylindrical inclusion, 10A522
YOSHIKAWA, H: Generalized Miner's number and probability of fatigue failure of concrete subjected to variable cyclic loads (Japanese), 2A574
- Residual compressive strength of concrete under constant cyclic loads and reliability analysis of reinforced concrete column (Japanese), 2A762
- Design methodology for self-maintenance machines, 5A843
- Inertia effects on film rupture in hydrodynamic lubrication, 5A1092
- Stochastic analysis of fatigue lives of reinforced concrete subjected to cyclic bending moment (Japanese), 6A754
YOSHIKAWA, K: Diffraction efficiency of phase type zone-plate and zone-plate interferometer (Japanese), 9A877
YOSHIKAWA, M: Development of an endless multi-wire diamond saw (Japanese), 1T441
- Color drawing on ceramic surface by YAG laser irradiation (Japanese), 1A435
- Application of lead-zirconate-titanate (PZT) films to the impact energy sensor (Japanese), 3A407
- Open-closed loop control of seismic response of structures with active mass driver system (Japanese), 5A1324
- Piezo-driven 3D positioning mechanism with single-stage structure (Japanese), 7A456
- Diamond synthesis by magnetic field assisted arc discharge plasma jet CVD (Japanese), 11A617
- Diamond synthesis on a substrate rotated at high speed (Japanese), 12A685
- Formulation of elevator door equation of motion, 12A968
YOSHIKAWA, N: Design change to realize homologous deformation, 3A755
- Homology design for eigenvector of bending vibration using FEM, 12A192
YOSHIKAWA, S: Hydrodynamic siren as a broad-band underwater sound projector, 1A304
- Adaptive attitude control for an artificial satellite with mobile bodies, 12A380
YOSHIKAWA, T: Operating characteristics of an externally pressurized gas lubricated piston ring, 5A1103
- Modeling of flexible manipulators using virtual rigid links and passive joints, 11A385
YOSHIMI, Y: Liquefaction resistance of silty sand based on in situ frozen samples, 9T667
YOSHIMOTO, I: Life test of ceramic ball bearings by staircase method, 7T476
- Life test of ceramic ball bearings by staircase method (Japanese), 7A1002
YOSHIMOTO, S: Aerostatic Bearings (Japanese), 3T842
YOSHIMURA, S: Direct analysis method for probabilistic fracture mechanics, 9A789
- Automated structural design based on knowledge engineering and fuzzy control, 9A953
- Finite element analysis of gas-lubricated grooved journal bearings: Analysis method, 9A1002
- Analyses of possible failure mechanisms and root failure causes in power plant components using neural networks and structural failure database, 10A446
YOSHIMURA, T: Automatic detection of cracks on ceramic Al_2O_3 using diffusion of laser light, 3A738
- Development of scanning detection system for cracks on Al_2O_3 ceramics (Japanese), 5A618
- Study for crack detection technique on black color ceramics using FID, 9A876
- Study for crack detecting technique on ferrite ceramics by scanning detecting FID (Japanese), 11A714
- Fundamental study on electric field assisted biomachining (Japanese), 11A620
YOSHINAKA, R: Rock Foundations - Proc of Int Workshop, Tokyo, Japan, Sept 1995, 12N32
YOSHINO, F: Optimal sequencing site of hydro-power stations, 1A1433
YOSHINO, K: Lamb wave vibration sensor with a cellulose membrane diaphragm, 11A139
YOSHIOKA, H: Application of acoustic emission technique for estimation of initial stress (Japanese), 1A851
YOSHIOKA, M: Simulation of time-dependent distribution of abrasive grain size in lapping: Second Report - Discussion on a breakage probability, multiplication rate and transition probability of abrasive grains (Japanese), 3T630
YOSHIOKA, T: Vibration and stability of a nonuniform double-beam subjected to follower forces, 10A628
- Prediction of spalling on a ball bearing by applying the discrete wavelet transform to vibration signals, 12A726
YOSHIOKA, Y: Fractal characteristics of stress corrosion cracking in SNCM 439 steel having different prior-austenite grain sizes, 6A622
YOSHIYAMA, S: Turbulent premixed flames in closed combustion chambers, 7A1310
YOSHIZAWA, A: Turbulent magnetichydrodynamic dynamo: Modeling of the turbulent residual-helicity equation, 7A1138
- Structure and physical properties of liquid crystals, 12A1007
- Aerodynamic heating for hypersonic-flying vehicles using infrared visualization method (Japanese), 12T1200
YOSHIZAWA, T: Surface profile measurement by optical heterodyne interferometry using acousto-optic modulator (Japanese), 2A691
- Fringe order determination in grating projection method and its application to shape measurement of lens materials (Japanese), 7A878
YOSHIZUMI, F: Flutter stability of decks for super long-span bridge (Japanese), 11A225
YOSIBASH, Z: Generalized stress intensity factors in linear elastostatics, 6A641
- Numerical analysis of singularities in 2D - Part 2: Computation of generalized flux-stress intensity factors, 7A518
- Numerical thermo-elastic analysis of singularities in 2D, 9A1273
- Superconvergent extraction of flux intensity factors and first derivatives from FE solutions, 10A25
- p-version of the FEM in incremental elasto-plastic analysis, 11A463
- YOSIDA, I: Basic study on a noise barrier for reduction of wind load (Japanese), 9A1431
YOSIDA, K: Probabilistic analysis of multi-spanned continuous beams subjected to stochastically distributed load (Japanese), 5A106
YOU, HSIEN-I: Influence of friction-speed relation on the occurrence of stick-slip motion, 5A773
YOU, HUEI-SHYANG: New robust state analytical predictor design for a general class of deadtime processes, 2T281
YOU, JENG-CHIE: Effects of frequency on damping properties of sand, 12A648
YOU, S-S: Robust motion tracking controllers for uncertain robot manipulators, 6A364
YOU, SM: Effects of dissolved gas content on pool boiling of a highly wetting fluid, 3A1080
- Laser doppler anemometry measurements of bubble rise velocity and departure frequency, 4A1195
- Identification of pool-boiling heat transfer mechanisms from a wire immersed in saturated FC-72 using a single-photo and LDA method, 8A1125
- Effect of turbulence on heat transfer in stagnation flow, 10A1178
- Determination of the boiling enhancement mechanism caused by surfactant addition to water, 11A1167
YOU, YIH-DIH: Hot-block elevation effect on mixed convection in a parallel-plate channel, 8A1092
YOU, YUI-LONG: Buckling of laminated plates with adhesive joints, 1A654
YOU, Z: Cable-stiffened pantographic deployable structures - Part 1: Triangular mast, 9A966
YOU, ZAI-JIN: Increase of current bottom shear stress due to waves, 7A267
YOUCEF-TOUMI, K: Angle sensor with scanning tunneling microscopy (1st Report): Error analysis and pitch measurement with two scanning tunneling microscopy tips (Japanese), 9A439
YOUD, TL: Liquefaction-induced ground-surface disruption, 3A585
YOUM, Y: Stiffness analysis and control of multi-fingered robot hands, 5A359
- New resolution scheme of the forward kinematics of parallel manipulators using extra sensors, 12A444
YOUM, YOUNGIL: Mobility analysis of spatial 4- and 5-link mechanisms of the RS class, 11A825
YOUN, SUNG-KIE: Numerical and experimental study on the nonlinear behavior of laminated composite structural components, 2A475
YOUNAN, AH: Dynamic modeling and response of rigid embedded cylinders, 1A702
- Dynamic response of a pair of walls retaining a viscoelastic solid, 5A1318
YOUNG , PG: Free vibration of a class of homogeneous isotropic solids, 5A112
YOUNG, A: Single-domain BEM for 3D elastostatic crack analysis using continuous elements, 10A832
YOUNG, BD: Experimental and modeling study of fires in ventilated ducts - Part II: PMMA and stratification, 7A1331
YOUNG, BW: Design of hydraulic ram pump systems, 4A1118
YOUNG, CD: Development of an experimentally flexible facility for mixing-combustion interactions in supersonic flow, 12A1325

YOUNG, IS: Mechanical properties of tendons: Changes with sterilization and preservation, 9A1442
YOUNG, PG: Three-dimensional analysis of the free vibration of thick rectangular plates with depressions, grooves, or cut-outs, 10A192
YOUNG, PM: Robust l_p stability and performance, 5A300
YOUNG, RJ: Measurement of thermal strains during compressive fragmentation in single-fiber composites by Raman spectroscopy, 6A424
YOUNG, RP: Source parameters of mining-induced seismic events: An evaluation of homogeneous and inhomogeneous faulting models for assessing damage potential, 3A1350
YOUNG, T: Numerical simulations of flow modification of supersonic rectangular jets, 10A1163
YOUNG, W-B: Permeability measurement of bidirectional woven glass fibers, 2A556
YOUNG, WEN-BIN: Compacting pressure and cure cycle for processing of thick composite laminates, 2A554
- Study on compression transfer molding, 4A651
- Fabrication of T-shaped structural composite through resin transfer molding, 4A650
YOUNG, YC: New on-line spindle speed regulation strategy for chatter control, 8A103
YOUNGHANS, JL: Methodology to assess design uncertainty in selecting affordable gas turbine technology, 5A1284
YOUNGS, RR: Magnitude-dependent variance of peak ground acceleration, 2A1241
YOUNGSON, GK: Appraisal of the design rules in Eurocode 3 for bolted end-plate joints by comparison with experimental results, 11A770
YOUNIS, BA: Compound-channel flows: A parametric study using a Reynolds-stress transport closure, 1T1053
- Assessment of the SSG pressure-strain model in 2D turbulent separated flows, 3A966
- Prediciton of turbulent flows in dredged trenches, 7T1101
YOUNIS, CJ: Dynamic response of a tower-pier system on viscoelastic foundation with frictional interface, 11A142
YOUNKIN, GW: Industrial Servo Control Systems: Fundamentals and Applications - Fluid Power and Control Series, Vol 13, 10R13
YOUSEFPOR, M: Test for stabilizability by constant output-feedback, 3T320
YOUSSEF, HA: Computer-aided design of acoustic horns for ultrasonic machining using FE analysis, 7A33
YOUSSEF, S: Experiments on turbulence management using screens and honeycombs, 9A1195
YOUSSEF, T: Aquifer discharge-recharge as a solution to regional rising groundwater problems, 5A1308
YOVANOVICH, MM: Modeling transient conduction from isothermal convex bodies of arbitrary shape, 1A1258
- Analytical method for forced convection from flat plates, circular cylinders, and spheres, 1A1164
- Thermal contact conductance of tool steel and comparison with model, 5A1167
- Experimental determination of overall thermal resistances of satellite bolted joints, 6T1116
- Elastoplastic constriction resistance model for sphere-flat contacts, 8T1162
- Elastoplastic contact conductance model for isotropic conforming rough surfaces and comparison with experiments, 8A1163
- Empirical methods to predict Vickers microhardness, 11A862
YSUJI, T: Effect of growth atmosphere on convection in $LiTaO_3$ melt, 7A1224
YU , JUNYI: Studies on differential diagnosis of chatter caused by phase-delay of dynamic cutting force (relative to vibration) (Chinese), 3A166
YU , SHOUWEN: Stress analysis of a microelectronic component during manufacturing process (Chinese), 9T46
YU, BIN: Numerical simulation of complicated pipe flow with k-ε model, 1A1054
YU, C-C: Simplified direct method for cyclic strain calculation: Repeated rolling-sliding contact on a case-hardened half plane, 10A983
YU, CAIYUAN: Model of maximum liquid rate of fluidized spray granulator (Chinese), 8A935
YU, CF: Experimental investigation of buoyant transient cavity collapse near rigid cylindrical boundaries, 9A1129
YU, CH: Evolution of roll patterns in Rayleigh-Benard convection in a rectangular layer: A numerical study, 7A1216
YU, CHANGZHAO: Equations of complete depth-averaged turbulence model in general orthogonal coordinates, 9A1193
YU, DAOYUAN: Flat-end cutter path generation for a sculptured surface for 3-axes NC machining, 10A712
YU, G: Finite element approach to global-local modeling in composite laminate analysis, 2A449
YU, GUOXIONG: Finite element with inner linkage rods in capturing the crack localization of concrete structures, 6A599
- Application of Kosloff and Frazier's hourglass control method in nonlinear analysis, 11A5
YU, H: Adaptive control of robot manipulators including motor dynamics, 2A306
- Predicting warpage of injection molded fiber-reinforced plastics, 8A455
YU, HONGHUI: Damage nucleation during electromigration along an isolated interface in an elastic medium, 8A609
YU, HONGZHI: Experimental investigation of soil seismic deformation property (Chinese), 8A1327
YU, HS: Large strain analytical solution for cavity contraction in dilatant soils, 4A607
- Interpretation of pressure-meter unloading tests in sands, 9A674
YU, HSUAN-FU: Simulation of spray pyrolysis for ceramic powder preparation, 3A641
YU, JANG-HORNG: Thermodynamics, stability, and nonlinear oscillations of viscoelastic solids - I: Differential type solids of second grade, 12A505
YU, JIASHENG: Dynamic analysis of 3D lattice flat shells (Chinese), 11T120
YU, JIN: Link between crack velocity and rupture time in creeping solids, 6A643
YU, JIUN-HUEI: Conjugate heat transfer and buoyancy-driven secondary flow in the cooling channels within a vertical slab, 3A1033
YU, JIUN-SHYA: Effect of elasticity on slip system activity in face-centered cubic crystals: A numerical study, 6A381
YU, JUN: Chaos of nonlinear vibration systems under parametric and external excitation (Chinese), 10A98
- Sagittal plane model of the knee and cruciate ligaments with application of a sensitivity analysis, 11A1458
YU, JUN-YAO: Transfer matrix method for FE models of a chain-like structure under harmonic excitations, 4T12
YU, KC: Weighting objectives strategy in multicriterion fuzzy mechanical and structural optimization, 8A729
YU, KEE-HO: First integral approach to nonlinear motion analysis of a two-link system, 11A382
YU, KH: Mixing enhancement in supersonic free shear flows, 2A905
- Supersonic flow mixing and combustion using ramp nozzle, 4A1255
YU, LAIGUI: Correlation among the tribological characteristic parameters of rare earth trifluorides and their electron structures, bond parameters, and therp nozzle, 4A1255
YU, LAIGUI: Correlation among the tribological characteristic parameters of rare earth trifluorides and their electron structures, bond parameters, and thermodynamic parameters, 3A1004
YU, LJ: Stress characteristics of unidirectional composites with triple surface notches, 6A431
YU, P: Finite element modeling of transmission line galloping, 1A143
- Tension of conductor under concentrated loads, 5A131
- Perturbation-based FE analyses of transmission line galloping, 10A315
- Krylov-Bogoliubov and Galerkin methods for nonlinear oscillations, 10A108
YU, PING: Dynamic system identification of the response behavior of linear viscoelastic materials, 8A414
YU, Q: Optimum design of cam mechanisms with oscillating flat-face followers, 8A835
YU, QILIAN: Elastic area compressibility of the rabbit aorta, 12A1465
YU, QIULIN: Prediction of cavitation in journal bearings using a BEM, 5A1107
YU, SCM: Analytical solution to the viscous flows in curved duct with inlet swirl, 4A1036
- Flow characteristics of lobed forced mixers at higher velocity ratios, 7T1342
- Analysis of thin film thickness determination in two-phase flow using a multifiber optical sensor, 11A1081
YU, SD: Accurate analysis of free vibration of open circular cylindrical shells, 6A141
YU, SHAOHUA: Terminal spacecraft coplanar rendezvous control, 1T403
YU, SHENG-TAO: Least-squares FEM for low-Mach-number compressible viscous flows, 4A997
YU, SHOU-WEN: Micromechanical modeling of tensile response of elastic-brittle materials, 1A449
- Analyses of damage localization at crack tip in a brittle damaged material, 6A645
YU, SHOUWEN: Micromechanical modeling of strain softening in microcrack-weakened quasi-brittle materials, 1A831
- Mechanics of dilatant transformation in one side of bimaterial interface, 10A811
- Plane piezoelectric problem of a loaded crack terminating at a material interface, 12A639
YU, SUIRON: Adaptive control in CNC machine cutting (Chinese), 8A273
YU, SW: Bridge-toughening analysis of the penny crack in a fiber-reinforced composite with interfacial effect, 12A751
YU, TIEJUN: Effectiveness of shear reinforcement for normal and high-strength concrete beams, 9A912
YU, TP: Fracture of knitted randomly-oriented short-fiber composite, 9A817
YU, TX: Dynamic deformation of rigid-plastic beams for general impulsive loading: A phenomenological model, 1A505
- Response of an elastic, plastic turbular cantilever beam subjected to a force pulse at its tip: Small deflection analysis, 1A513
- Inertia-sensitive impact energy-absorbing structures
- Part I: Effects of inertia and elasticity, 1A506
- Inertia-sensitive impact energy-absorbing structures - Part II: Effect of strain rate, 1A507
- Failure maps of clamped beams under impulsive loading, 3A119
- Numerical analysis of the large deflection of an elastoplastic cantilever, 8A423
- Saturation Impulses for dynamically loaded structures with finite-deflections, 8A141
- Notch sensitivity of circular rings subjected to impact loading, 10A278
- Dynamic behavior of elastic-plastic free-free beams subjected to impulsive loading, 11A183
YU, W-S: Inclined and horizontal wall plumes, 11A1118
YU, WANMING: Hybrid method of 3D elastoplastic analysis of structure based on elastic solution (Chinese), 8A435
YU, WENHUAN: Mathematical modeling for a class of flexible robot, 1A423
YU, XIAOMING: Design sensitivity analysis and optimization tool (DSO) for shape design applications, 2A723
YU, XIAOZHANG: Thermal calculation for anti-icer with micro-ejector, 6A1023
YU, XIN: Stability study of an unsteady oscillation flow, 11A977
YU, XING: Interaction of transient waves with a circular surface-piercing body, 5A221
YU, XING H: Discretization chaos: Variable structure systems with finite switching values, 10A422
YU, XINGHUO: Switching control strategy for the power system stabilization problem, 3A385
YU, XIPING: Finite analytic method for mild-slope wave equation, 7A274
YU, XUELI: High pressure air compressor valve fault diagnosis using feedforward neural networks, 2A141
YU, YI-YUAN: Vibrations of Elastic Plates: Linear and Nonlinear Dynamical Modeling of Sandwiches, Laminated Composites, and Piezoelectric Layers, 10R9
YU, YONGCHAO: Optimum design of wheel-type structure for three-axis accelerometer (Chinese), 8A836
YU, YUNG H: Aerodynamics and acoustics of rotor blade-vortex interactions, 2A1046
YU, Z: State-space modeling of a vertical cylinder in heave, 11A219
YUAN , MINGWU: New model of wall element (Chinese), 9T79
YUAN , XIUGAN: Numerical simulation and investigation of human thermoregulation in cold environment, 7A1416
- Computer simulation of man-machine-environment system engineering, 7A1415
- Dynamic mathematical model study of the plate-fin humid heat exchanger, 7A1263
YUAN, BO: Constrain processing strategy based on equivalent entity in parametric CAD (Chinese), 8A827
YUAN, FG: Asymptotic crack-tip fields in anisotropic power law material under antiplane shear, 1A825
- Interfacial circular crack in cylindrically anisotropic composites under antiplane shear, 2A653
- Stress exponents of asymptotic solutions at the notch tip in anisotropic power law material under antiplane shear, 6A674
YUAN, HAIQING: Semi-active control for wind induced vibration of highrise structures with hanging TMD (Chinese), 4A380
YUAN, HUANG: Quantifications of crack constraint effects in an austenitic steel, 2A636
- Verification of a cohesive zone model for ductile fracture, 10A787
YUAN, J: Vibration of annular, circular, and sectorial plates with cut-outs or on partial supports, 5A136
- Improvement of thermal error modeling and compensation on machine tools by CMAC neural network, 7A742
- Three-dimensional analysis of the free vibration of thick rectangular plates with depressions, grooves, or cut-outs, 10A192
- Accuracy enhancement of a horizontal machining center by real-time error compensation, 10A496
YUAN, JING: New adaptive robot controller taking account of motor dynamics, 12T457
YUAN, JINGXIA: Application of real-time error compensation on a turning center, 2A538
YUAN, LI: Numerical simulation of the axisymmetric unsteady incompressible flow by a vorticity-velocity method, 2A879
YUAN, MC: Prediction of residual stresses in welded T- and I-joints using inherent strains, 10A558
YUAN, Q: Low-energy Charpy impact of interleaved CF-EP laminates - Part I: Effects of interleaving on stiffness degradation, 4A732
YUAN, QIN: Effect of worm gear geometry on its contact properties, 6T843
YUAN, SHIJIAN: Effect of the hydrobulging process on mechanical properties of spherical pressure vessels, 12A870
YUAN, SULI: Multiple cis-elements mediate shear stress-induced gene expression, 5A1384
YUAN, T: Premixed and diffusion flames in a centrifuge, 1A1319
YUAN, XF: Flow behavior of 2D random foams, 4A446
YUAN, XIANGRONG: Shifted-interative modal method of structural eigenvector derivative computation (Chinese), 4A203
YUAN, XIAOMING: Scattering of plane SH waves by a cylindrical alluvial valley of circular-arc cross-section, 3A1311
- Surface motion of a cylindrical hill of circular-arc cross-section for incident plane SH waves, 9A272
YUAN, Y: Poroelastic FE formulation including transport and swelling in soft tissue structures, 9A1443
- Convergence properties of the Fletcher-Reeves method, 9A94
- Mixed convective conjugate heat transfer from a vertical flat plate, 11A1133
YUAN, YA-XIANG: Convergence of a new trust region algorithm, 1A70
YUAN, YI: New algorithm of mixed discrete nonlinear programming for process synthesis (Chinese), 8A286
- New method for HENs with different film heat transfer coefficients: Pseudo-temperature (Chinese), 8A1192
YUAN, YIWU: Similar solutions of nonlinear heat conduction equation, 6A1129
- Interpolation perturbation method for solving the boundary layer type problems, 9A1142
YUAN, Z: Experimental and numerical studies of the aeroacoustics of axisymmetric supersonic inlets, 1A296
YUANMING, XIA: Constitutive equation for unidirectional composites under tensile impact, 9A552
YUBA, T: Influence of cooling conditions on the mechanical properties commingled yarn composites, 8A649
YUCE, M: Analytical and experimental investigation of the effect of mast-bending coupling on pylon stability, 6A1034
YUCEIL, B: Experimental and numerical study of hypersonic forward-facing cavity flow, 12A1071
YUCEIL, KB: Nose cavity effects on blunt body pressure and temperature at Mach 5, 3A923
YUCEL, N: Numerical analysis of fluid flow and mass transfer in a channel with a porous bottom wall, 2A1171
YUDIN, VE: Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699
YUE , BOQIAN: Stress in an orthotropic plate containing two circular holes forced by elastic rings (Chinese), 9T599
YUE, CY: Influence of thermal and microwave processing on the mechanical and interfacial properties of a glass-epoxy composite, 2A437
YUE, DKP: Damping amplification in highly extensible hysteretic cables, 3A129
- Computation of nonlinear free-surface flows, 6A903
- Time dependence of the wave resistance of a body accelerating from rest, 9A290
YUE, KUI: Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), 8A1232
YUE, TM: Laser fantasy: From machining to welding, 12A689
YUE, ZF: Life study of nickel-based single crystal turbine blades: Viscoplastic crystallographic constitutive behavior, 7A533
- Analysis of the effect of crystallographic orientations on the fracture of nickel-base single crystals (Chinese), 11A28
YUE, ZHONG QI: Generalizzd Kelvin solutions in a multilayered elastic medium, 4A507
YUEH, FY: Comparison of velocity and temperature measurements in an MHD topping cycle environment with flow field model calculations, 7A1149
YUEN, DAVID A: DASPK: A new high order and adaptive time-intergration technique with applications to mantle convection with strongly temperature-and pressure-dependent rheology, 3A1287
YUEN, PO KI: Rendering a subcritical Hopf bifurcation supercritical, 12A121
YUGE, K: Optimization of a frame structure subjected to a plastic deformation, 6A722
YUKAWA, S: Fatigue and Crack Growth: Environmental Effects, Modeling Studies, and Design Considerations - Proc of 1995 ASME/JSME Pressure Vessels and Piping Conf, July 23-27, 1995, Honolulu, Hawaii, 2N28
YUKI, H: Estimation of acoustic emission source waveform of fracture using a neural network, 8A695
YUKSELEN, M:
osition technique for 2D potential flow around multi-element aerofoils, 7T1056
YUKSELEN, MA: Superposition technique for potential flow around an aerofoil and control of the circulation, 11A1013

YUKSELER, RF: Definition of the deformed reference surface of rubber-like shells of revolution, 12A574
- Strain energy density of compressible, rubber-like shells of revolution, 12A576
YULE, AJ: for multi-layered half-space, 4A250
YUN, DAZHEN: Hybrid method of 3D elastoplastic analysis of structure based on elastic solution (Chinese), 8A435
- New experiment-calculation mixing method used to determine stress intensity factors (Chinese), 9A800
YUN, DYY: Symbolic math applications to constructive solid geometry and FE analysis, 8A38
YUN, JEONG EUI: Influence of a piston ring assembly design on blowby and friction in a SI engine, 8A1287
YUN, Y-S: Dynamic analysis of flexible rotors subjected to torque and force, 10A226
YUN, YOUNG MOOK: Strength of struts and nodes in strut-tie model, 6A755
YUNG JUNG , CHOONG: Improved fuzzy linear programming model for structure designs, 4A791
YUNG, SP: Sufficient conditions for optimal control problems with time delay, 6A293
YUNGSTER, S: Fully implicit time accurate method for hypersonic combustion: Application to shock-induced combustion instability, 7A1081
YUNO, K: Evaluation of deterioration in concrete by stochastic analysis of acoustic emission activity under uniaxial compression (Japanese), 2A607
YURGARTIS, SW: Interlaminar shear fatigue damage evolution of 2D carbon-carbon composites, 11A633
YURKEVICH, OR: Effect of electrophysical activation of components of polymer composites on their adhesional interaction (Russian), 8A854
YURUSOY, M: Symmetry groups of boundary layer equations of a class of non-Newtonian fluids, 11A853
YUSHANOV, SP: Stochastic modeling of fracture processes in fiber reinforced composites, 2A604
YUTA, S: Designing a behavior of a mobile robot equipped with a manipulator to open and pass through a door, 11T371
- Trajectory tracking control for navigation of the inverse pendulum type self-contained mobile robot, 11A336
YUTAKA, M: Error estimate of h-convergence in quadrilateral elements, 8A41
YUZAWA, Y: Development of new ultrasonic dressing equipment (Japanese), 1A735
YUZUGULLU, O: Comparative study on the identification methods for the autoregressive modeling from the ambient vibration records, 5T169

Z

ZAAD, KH: Control of non-minimum phase singularly perturbed systems with application to flexible-link manipulators, 10A486
ZAAL, KJM: Application of FE techniques in the displacement compatibility method, 2A8
ZABARAS, N: Sensitivity analysis for the optimal design of metal-forming processes, 10A708
ZABARNICK, S: Jet fuel deposition and oxidation: Dilution, materials, oxygen, and temperature effects, 10A1373
ZABETT, A: Microstructural effects on the small fatigue crack behavior of an aluminum alloy plate, 1A765
ZABINSKY, ZB: Incorporating manufacturing tolerances in near-optimal design of composite structures, 11A492
ZABORSKI, AP: Corrosion of reinforced concrete due to stress-assisted diffusion, 3A1190
- Corrosion of reinforced concrete due to stress-assisted diffusion, 9A909
ZABRODIN , AV: Comparison of numerical and experimental results of supersonic flow around a combination of two bodies of revolution, 5A985
ZABRODIN, AV: Multiprocessor supercomputers in numerical and experimental research of complex gas dynamic flows: Specifics and prospects, 12A1077
ZABUSKY, NJ: Vortex intensification and collapse of the Lissajous-elliptic ring: Single- and multi-filament Biot-Savart simulations and visiometrics, 2A873
ZACCARIA, M: Structure of tip clearance flow in axial flow compressors, 5A1062
ZACEK, M: Numerical simulation of the blood flow in the human cardiovascular system, 6A1360
ZACHARA, A: Wigner potential method in the investigation of thermal properties of regular composites, 10A1342
ZACHARENAKIS, EC: Input-output decoupling with simultaneous disturbance attenuation and H^∞ optimization problem in structural analysis, 12A850
ZACHARIAH, MR: Thermochemical and chemical kinetic data for fluorinated hydrocarbons, 11A1286
ZACHARIAS, G: Hybrid fuzzy logic flight controller synthesis via pilot modeling, 3T388
ZACHARIAS, GL: Multistage integration model for human egomotion perception, 3A1412
ZACHAROPOULOS, A: Three-dimensional simulation of structural pounding during earthquakes, 10A1435
ZACHARY, L: Verification of the duplex gauge using variable strains and temperatures, 12A806
ZACHOS, A: PIV measurements in multiphase flow with nominally high concentration of the solid phase, 7T1095
ZACHRAU, T: Nonlinear stability analysis of plane Poiseuille flow by normal forms, 2A972
ZACKERY, L: Photoelastic determination of mixed mode stress intensity factors for sharp reentrant corners, 2A621
ZADOKS, RI: Numerical study of an impact oscillator with the addition of dry friction, 6A191
ZADOSZENKO, JG: Research of non-wear effect in material system: Steel-brass-glycerine (Polish), 6A837
ZADROGA, B: Bearing capacity of shallow foundations on slopes, 9A675
ZADRZYNSKA, E: Conservation laws in free boundary problems for viscous compressible heat-conducting capillary fluids, 9A1106
ZADUNAISKY, PE: Universal formulation for the N-body problem, 12A96
ZADVORNYKH, VN: Nonisothermal stability of viscoelastic liquid flow between disks, 10A1262
ZAFIROPOULOS, N: Buoyancy-affected flow and heat transfer in asymmetrically heated rotating cavities, 5A1140
ZAGAINOV, GI: TsAGI: Historical milestones and present state, 10A1197
ZAGHLOUL, NA: Design of alluvial channels using the Einstein and the Colby-Hembree methods, 2A856
ZAGORSKI, R: Comparison of edge plasma parameters between limiter and divertor configuration in Toksmak-reactor, 6T1296
ZAGZEBSKI, JA: Experimental demonstration of the frequency dependence of the effective scatterer number density, 9A391
ZAHEER-UDDIN, M: Optimal tracking control of multi-zone indoor environment spaces, 5A1181
ZAHLAN, N: Modeling the influence of filler particles on surface geometry in drawn PET film, 6A418
ZAHN, JJ: Design of glued laminated timber columns, 6A759
ZAHORSKI, S: Simple elongational flows which are not simple in reality, 1A963
- Instability of disturbed elongational flows of viscoelastic fluids, 3A959
- Comments on instability of disturbed elongational flows of viscoelastic fluids, 9A1179
- Necking in non-isothermal high-speed spinning as a problem of sensitivity to external disturbances, 10A1173
ZAHRADNIK, J: Simple elastic finite-difference scheme, 6A1286
- Interpretation of the microtremor spectra at the Zafarraya basin, southern Spain, 8A1333
ZAHRAI, S: Anisotropic subgrid modeling, 1T1085
ZAI-JIU, SHANG: Volume-preserving algorithms for source-free dynamical systems, 3A72
ZAICHIK, LI: Mathematical model of transfer of momentum and heat in disperse turbulent jet flows, 5A1164
ZAIDI, H: Friction behavior of a graphite-graphite dynamic electric contact in the presence of argon, 10A965
ZAIDMAN, M: Finite deformation of nonlinear composite materials - Part II: Evolution of the microstructure, 7A540
- Finite deformation of nonlinear composite materials - Part I: Instantaneous constitutive relations, 7A539
ZAITSEV, BA: Relationship between the parameters of acoustic emission and the development of damage zone during interlaminar fracture in carbon fiber-reinforced plastics (Russian), 8A699
ZAITSEV, VF: Handbook of Exact Solutions for Ordinary Differential Equations, 5N33
ZAITSEV, VG: Error in the reproduction of vibration in testing machinery equipment, 5T854
ZAITSEV, VY: Nonlinear interaction of acoustical waves due to cracks and its possible usage for cracks detection, 1A855
ZAITZEV, AA: Burning velocities and flammability limits of gaseous mixtures at elevated temperatures and pressures, 1A1314
ZAJAC, FE: Modeling and simulation of paraplegic ambulation in a reciprocating gait orthosis, 5A1370
- State-space analysis of mechanical energy generation, absorption, and transfer during pedaling, 6A1382
ZAJAC, J: Application of the calorimetry to studies of colloidal phenomena: Enthalpies of micellization and enthalpies of adsorption of zwitterionic surfactants onto silica gel, 4A896
ZAJAC, M: Elements of parallel transformation at computer-aided analysis and control of robot-excavator system in the working process of mineral deposits (Polish), 3A409
ZAJACZKOWSKI, M: Conservation laws in free boundary problems for viscous compressible heat-conducting capillary fluids, 9A1106
ZAJACZKOWSKI, WM: Measure-valued solutions of the Euler Equations for ideal compressible polytropic fluids, 7A1075
ZAK, A: Analysis of natural frequencies of delaminated composite beams based on FEM, 11A6
ZAK, AR: Shear center for elastic thin-walled composite beams, 8A478
ZAKHARENKOV, MN: Development of a nonstationary separation and coherent structures in a 2D viscous incompressible flow around a body, 10A1192
ZAKHAROV, DD: Asymptotic simulation of thin asymmetric laminates: Boundary problems and solution methods (Russian), 1A567
- Formulation of boundary-value problems of statics for thin elastic asymmetrically-laminated anisotropic plates and solution using functions of a complex variable, 7A627
ZAKHAROV, SM: Dimensionless characteristics of lubricating film in plain bearings design taking into account shaft deviation: Determination, approximation, and limits of applicability, 5A1090
- Simulation of the "crankshaft-bearings-cylinder block supports" tribosystem in internal combustion engines, 5A833
ZAKIROV, IM: Calculation of force parameters of shaping when bending thin-walled profile parts, 11A583
ZAKO, M: Three-dimensional intelligent FEM for design of composite structures: Design of symmetric laminates by shell element (Japanese), 1A584
- Analysis of single-layered corrugated core sandwich plate by homogeneous method: On the application of homogenization method to composite structures with only planar periodicity (Japanese), 1A561
- Development of 3D FEM for composite materials based on damage mechanics (Japanese), 1A17
- Nonlinear analysis of woven fabric composite materials by homogenization method considering microscopic fracture (Japanese), 4A502
- Macro-micro uncoupled analysis procedure for nonlinear structural mechanics of composites: RVE approach to microstructural geometrically nonlinear problem (Japanese), 9A554
ZAKOVOROTNY, VL: Method for characterization of machine-tools dynamic parameters for diagnostic purposes, 3A165
ZAKOVOROTNYI, VL: Informational support of a system for dynamic diagnostics of cutting tool wear in turning, 6A829
ZAKRAJSEK, JJ: Vibration signature analysis of a faulted gear transmission system, 8A154
ZAKRZEWSKI, T: Utilization of acoustic emission signals in identification testing of machine elements, 1A858
ZALA, CA: Prewhitening for improved detection by matched-field processing in ice-ridging correlated noise, 3A303
ZALESKI, S: Multiscale seismic waveform inversion, 1A1384
ZALEWSKI, L: Superficial heat flux and temperature measurement on a wall (French), 11A1189
ZALEWSKI, W: Shaping structures for least-weight (Polish), 3A773
ZALTZMAN, B: Criteria for the disappearance of the mushy region in the Stefan problem, 4A1207
ZAMA, F: Method for solving the indirect approximation problem, 12A76
ZAMAN, KBMQ: Impact of tab location relative to the nozzle exit on jet distortion, 6T978
- Flow oscillation over an airfoil near stall, 6T1013
- Axis switching and spreading of an asymmetric jet: The role of coherent structure dynamics, 12A1129
ZAMAN, M: Creep modeling of rock salts for geoenvironmental application, 1A769
ZAMAN, MM: Effects of a moving aircraft and temperature differential on response of rigid pavements, 1A888
- Static and dynamic analysis of concrete pavements including thermal warping effects, 4T131
ZAMBALDI, MC: Comparison of some estationary methods with the GMRES in the petroleum reservoir simulation using non-structured Voronoi grids (Spanish), 8A1373
ZAMBONELLI, E: Site response from ambient noise measurements: New perspectives from an array study in Central Italy, 11A1398
ZAMETAEV, VB: Marginal separation in 3D flows, 11A950
ZAMOROWSKI, W: Investigation of shrinkage crack resistance of concrete, 1A907
ZAMULA, GN: Thermomechanical stability of built-up stiffened structures, 10T156
ZAN, SHI: Dynamic testing on spring damping foundation (Chinese), 9A213
ZANARDI, MA: Steady-state model for heat pipes of circular or rectangular cross-sections, 12A1263
ZANCHINI, E: Laminar forced convection with sinusoidal wall heat flux distribution: Axially periodic regime, 6A1071
- Hyperbolic heat conduction and thermal resonances in a cylindrical solid carrying a steady-periodic electric field, 7A1241
- Thermal entrance region for laminar forced convection in a circular tube with a power-law wall heat flux, 7A1207
- Existence of an asymptotic thermally developed region for laminar forced convection in a circular duct, 11A1111
ZANDT, G: Velocity structure beneath College Station Alaska from receiver functions, 11A1360
- Simultaneous inversion for earthquake location and velocity structure beneath central Costa Rica, 11A1355
ZANETTA, P: Estimation of masonry mechanical characteristics by ESPI fringe interpretaion, 3A520
ZANETTI, P: Nonlinear vibrations in the tethered satellite system-mission 1, 8A152
ZANG, JUN: Wave-induced seepage action on cylinder resting on deformable foundation (Chinese), 8A1308
ZANG, TA: Simulation and analysis of instability and transition in high-speed boundary-layer flows, 5A930
ZANG, YAN: Numerical simulation of coastal upwelling and interfacial instability of a rotating and stratified fluid, 6A906
ZANG, YUELONG: Higher-order BEM for 3D potential problems, 1A51
ZANGENEH, M: Inverse design of centrifugal compressor vaned diffusers in inlet shear flows, 11A1065
ZANGRANDO, F: Performance of direct-contact heat and mass exchangers with steam-gas mixtures at substmospheric pressures, 6A1145
ZANI, N: Masonry-like solids with bounded compressive strength, 9A526
ZANIN, BY: Topology of global separation on an airfoil in the presence of stationary disturbance sources, 5T1006
ZANOVICH, AV: Specific features of external heat transfer in a gas-liquid fluidized bed, 5A1303
ZAOUI, A: Morphologically representative pattern-based bounding in elasticity, 8A378
ZAPATA, R: Collision avoidance for a two-arm robot by reflex actions: Simulations and experimentations, 3A344
ZAPFE, JA: Iterative calculation of the transverse shear distribution in laminated composite beams, 11T486
ZAPLATA, M: Influence of roughness faces, ways of lapping and lubricant viscosity on friction characteristics (Polish), 6A785
ZAPPA, B: Homogeneous matrix approach to 3D kinematics and dynamics - I: Theory, 11A74
- Homogeneous matrix approach to 3D kinematics and dynamics - II: Applications to chains of rigid bodies and serial manipulators, 11A75
ZAPPE, HH: Magnetic microactuation of polysilicon flexure structures, 5T351
ZAPPOLI, B: Acoustic saturation of the critical speeding up, 6A928
- Thermoacoustic and buoyancy-driven transport in a square side-heated cavity filled with a near-critical fluid, 12A1216
ZARATE, F: New assumed strain triangles for nonlinear shell analysis, 6A482
ZARCHAN, P: Proportional navigation and weaving targets, 3T356
ZAREMBA, AT: Adaptive control of flexible link manipulators using a pseudolink dynamic model, 9A458
ZARETSKY, E: Compressive stress-strain relations and shock Hugoniot curves of flexible foams, 5A444
ZARETSKY, EV: Comparison of life theories for rolling-element bearings, 8A810
- Comparison of life theories for rolling-element bearings, 8T811
ZARIKIAN, V: Hypersingular residuals: A new approach for error estimation in the BEM, 12A54
ZARIPOV, MN: Possibility of equilibrium positions of rapidly-rotating bodies in gravitational fields, 8A213
ZARIPOV, RG: Nonlinear oscillations of a gas in a tube, 6A202
ZARKA, J: Proc of the ASME Materials Division, MD-Vol 69 - 1995 Int Mech Eng Congress and Expo, 1995, San Francisco, 7N18
ZARRABI, K: Primary stress in scarred boiler tubes, 1A929
ZARUBIN, VS: Approximate calculation of the edge and scale effects in composite materials, 7T828
ZARUDZKI, J: Optimal choice of mine hoisting process parameters (Polish), 3A1356
ZARUTSKY, VA: One method of processing of experimental data obtained under the test of cylindrical shells for stability under axial compression (Russian), 3A563
- Approximate equations for calculation of natural frequencies of oscillations of longitudinally supported cylindrical shells obtained using the precised theory (Russian), 7A188
- One of possible methods of prediction of critical stresses in longitudinally compressed cylindrical shells (Russian), 7A614
ZARUTSKY, VD: Approximated formulas to calculate ribbed cylindrical shells for stability, 9A631
ZARZYCKI, Z: Friction factor for accelerated turbulent flow through long smooth pipes, 9A1187
ZASLAVSKI, Y: Physical mechanisms of man-made influences on the magnetosphere, 8A1330
ZASLAVSKY, B: Feedback stabilization of connected nonlinear oscillators with uncontrollable linearization, 10A420
ZASLAVSKY, GM: Hamiltonian chaos to Maxwell's Demon, 5A3

ZATULA, NI: Stress-strained state of viscoelastic half-plane with round inclusions, 9A500
ZAVYALOVA, VV: Dynamical behavior of a two-member system with rolling at critical and nearly critical velocities, 7A85
ZAVALISHCHIN, DS: Control of the motion of a cylindrical body in a viscous medium for optimal energy consumption, 8A291
ZAVALISHCHIN, ST: Control of the motion of a cylindrical body in a viscous medium for optimal energy consumption, 8A291
ZAVATTIERI, PD: Optimization strategies in unstructured mesh generation, 12A48
ZAVIALOVA, VV: Divergent bifurcations in dynamic systems with rolling, 7A95
ZAVRISE, G: Augmented Lagrangian algorithms for thermomechanical contact problems with friction, 1A1295
ZAVTRAK, ST: Acoustical layer with mechanical pumping, 7A337
ZAWIDZKA, J: Shape optimization of 2D elastic structures using adaptive grids, 1A880
ZAWIDZKI, J: Density jump variation in the initial stage of the gravity flow of granular materials, 1A10
ZAWORSKI, J: Comparison of experiment with Monte Carlo simulations on a reflective gap using a detailed surface properties model, 11A1207
ZAWORSKI, JR: Measurement and use of bi-directional reflectance, 7A1261
ZAYAS, V: Seismic isolation retrofit of large historic building, 8A1344
ZBIB, HM: Study on shear banding in chip formation of orthogonal machining, 12A692
ZBOINSKI, G: Physical and geometrical nonlinearities in contact problems of elastic turbine blade attachments, 2A375
- Derivation of the variational inequalities of the incremental frictional elastic contact problems, 3A433
ZDAREK, J: LBB project for the new generation of WWER plants and lessons learned from the WWER 440 model 230 LBB project, 3A1360
ZDRAVISTCH, F: Numerical laminar and turbulent fluid flow and heat transfer predictions in tube banks, 3A1020
ZDRAVKOVIC, S: Analysis of linear systems with semi-rigid connections, 11T784
ZEBIB, A: Low Prandtl number Marangoni convection with a deforming interface, 3T1040
ZEBROWSKI, MA: Theory of unsteady combustion of solids: Investigation of quasisteady assumption, 11A1287
ZEBROWSKI, MP: Shape design for thin-walled beam cross sections using rational B splines, 4A860
ZEEGERS, J: Sensitive dynamic viscometer for measuring the complex shear modulus in a steady shear flow using the method of orthogonal superposition, 5A869
ZEGEL, WC: Enhanced axial dispersion in oscillating pipe flow with different solute concentrations at its ends, 9A1144
ZEGHAL, M: Liquefaction of reclaimed island in Kobe, Japan, 6A530
ZEHNDER, AT: Computation of membrane and bending stress intensity factors for thin, cracked plates, 3A681
- Method for thermo-mechanical analysis of steady-state dynamic crack growth, 8A673
ZEHNPFENNIG, TF: Optical radiations from interaction of effluent gases with the low-orbital atmosphere, 12A1306
ZEID, AA: Singularly perturbed bond graph models for simulation of multibody systems, 5A314
ZEID, KM: Exact frequency equation for an axially loaded beam-mass-spring system resting on a Winkler elastic foundation, 1A131
ZEIDAN, E: Multiple-time-scale turbulence model computations of flow over a square rib, 8T951
ZEIDAN, V: Admissible directions and general-izeconsideration of oblique shock wave reflections in steady flows - Part 2: Numerical investigation, 4A285
- Numerical investigation of shock wave reflections in steady flows, 11A914
ZEITOUN, O: Bubble behavior and mean diameter in subcooled flow boiling, 8A1130
ZELAZNY, Z: Experimental set-up for high-energy γ-ray studies at the Warsaw cyclotron and first experiments, 10T1450
ZELDIN, BA: Efficient iterative ARMA approximation of multivariate random processes for structural dynamics applications, 10A58
ZELENKA, RE: Flight test of radar altimeter enhancement for terrain-referenced guidance, 1T394
ZELENTSOV, DG: Study of the effect of corrosive media on the long-term stability of reinforced plates, 7A674
ZELESNIK, P: Jet fuel deposition and oxidation: Dilution, materials, oxygen, and temperature effects, 10A1373
ZELEZNIK, S: Comparison of the F/A-18A inlet flow analysis with flight data: Part 2, 11A967
ZELEZNIK, SZ: Comparison of F/A-18A inlet flow analyses with flight data: Part 1, 11A966
ZEMACH, C: Spectral transport model for turbulence, 7A1132
ZEMAN, K: Optimal strategies for the cooling of steel strips in hot strip mills, 8A561
- Local bending moment as a measure of adhesion: The blister test, 11A846
ZEMANEK, Z: Large deformation measurement by holographic interferometry, 9A864
ZEMBATY, Z: Rando- Local bending moment as a measure of adhesion: The blister test, 11A846
ZEMANEK, Z: Large deformation measurement by holographic interferometry, 9A864
ZEMBATY, Z: Random vibrations of discrete systems under kinematic wave excitations, 6A116
- Spatial seismic coefficients: Some sensitivity results, 10A1434
- Comparison between earthquake rotation spectra obtained by different experimental sources, 12A1377
ZEMBURA, M: Evaluation of covariance matrices in the multistage unified least-squares adjustment of the measurement results, 3A1200
ZENG , YOULIN: Thermal stresses of double-layer composite bar (Chinese), 9A933
- Releasing of dof of beam elements during dynamic analysis of structures: Also on a mistake in ADINA (Chinese), 9T70
ZENG, GUANGWU: Plastic buckling of stiffened torispherical shell, 6A506
ZENG, H: System for measuring biaxial creep strains over short gage lengths, 10A849
ZENG, JIYUE: Erosion model of polycrystalline ceramics in abrasive waterjet cutting, 12A720
ZENG, JSQ: Thin-film-heater thermal conductivity apparatus and measurement of thermal conductivity of silica aerogel, 11A1205
ZENG, K: Controlled indentation: A general approach to determine mechanical properties of brittle materials, 8A690
ZENG, L: Distributive mass balance correction in single- and multigrid incompressible flow calculation, 11T903
ZENG, PAN: Damage-coupled creep mechanics and its structural analysis principle, 5A610
ZENG, QINGHUA: Shifted-poles and multiple modal acceleration method for computing complex mode shape derivatives (Chinese), 9T177
ZENG, SI-MIN: Pressure wave propagation in a short tunnel caused by passing trains, 6A246
- Wave propagation by the passage of two high-speed trains in a tunnel, 12A1079
ZENG, SQ: Mean free path and apparent thermal conductivity of a gas in a porous medium, 3T1118
- Approximate formulation for coupled conduction and radiation through a medium with arbitary optical thickness, 3T1138
ZENG, X: Modeling lateral sliding of slope due to liquefaction of sand layer, 3A584
- Design and performance of an equivalent-shear-beam container for earthquake centrifuge modeling, 9A1378
ZENG, X-H: Anisotropy of elastic properties in various aluminum-lithium sheet alloys, 9A486
ZENG, XIANGGUO: Endochronic analysis for compressive buckling of thin-walled cylinders in yield region, 4T578
ZENG, XIAOXIAN: Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles, 3A1286
ZENG, YG: Dynamic reliability analysis of antenna reflector accuracy under wind excitation, 9A954
ZENG, YH: Multiplicative complexity and algorithm of the generalized discrete Fourier transform (GFT), 6A45
ZENG, YU: Case for bone canaliculi as the anatomical site of strain generated potentials, 2A1285
ZENG, Z: Monitoring and control of a retail food container filling machine, 4A424
ZENISEK, A: Maximum angle condition in the FEM for monotone problems with applications in magnostatics, 1T28
- Combined effect of numerical integration and approximation of the boundary in the FEM for eigenvalue problems, 1T27
- Interpolation theorem for narrow quadrilateral isoparametric FEs, 4T7
ZERIS, A: Uniform flow in open channels with steep slopes, 4T920
ZEROUG, S: Transient analysis of the transmitting properties of a focused acoustic transducer with an arbitrary rim, 1A290
ZERRIK, E: Regional controllability of distributed parameter systems, 5A299
ZERROUKAT, M: Computational Moving Boundary Problems, 1R34
ZERVA, A: Extraction of free-free modes using constrained test data, 4T230
- New method for the improvement of measured modes through orthogonalization, 9T246
- Iterative method for calculating derivatives of eigenvectors, 10T238
ZERVAS, T: Solid-based processes for the direct reduction of iron, 8A1374
ZESCHKY, J: Endwall and unsteady flow phenomena in an axial turbine stage, 5A1055
ZETES, DE: Dynamic analysis of shells, 1A155
ZEUTZIUS, M: Experimental investigation of a gas dynamic thrust vector control for hypersonic space planes, 7T1080
ZEVIN, AA: Stability of vertical oscillations in the system of electrodynamic-inspension with discrete wheelspan, 9A145
- Localization of periodic oscillations in discrete nonlinear systems, 12A130
ZEYTOUNIAN, RK: Modelisation asymptotique en mecanique des fluides newtoniens (Asymptotic Modelization in the Mechanics of Newtonian Fluids) - Mathematiques and Applications Series, Vol 15 (French), 7R20
ZEZZA, P: Optimality conditions for a constrained control problem, 8T287
ZHA, GE-CHENG: Three-dimensional shock and boundary-layer interaction using Reynolds stress equation turbulence model, 12A1106
ZHA, HONGYUAN: Computing the generalized singular values-vectors of large sparse or structured matrix pairs, 7T74
ZHAI, T: Fatigue damage in aluminium single crystals - Part I: On the surface containing the slip Burgers vector, 2A577
ZHAI, WM: Coupling model of vertical and lateral vehicle-track interactions, 12A200
ZHAN, C: Three dimensional anisotropic constitutive model for ductile behavior of columnar grained sea ice, 9A516
ZHAN, NJ: NO_x emission and major species concentrations in partially premixed laminar methane-air co-flow jet flames, 10A1367
ZHAN, RENJUN: Improved neural networks algorithm for rotary machinery fault diagnosis (Chinese), 10A474
ZHAN, S: Studies of thermokinetics in an adiabatic calorimeter - I: Design and testing of an adiabatic automatic calorimeter, 6A1065
ZHAN, XIAOYONG: Coupled model for water flow, airflow and heat flow in deformable porous media, 1A1369
ZHAN, YANRAN: Numerical simulations for extrusion and ironing and die-angle optimization, 6A558
ZHANDAROV, SF: Two approaches to interfacial shear strength calculation based on the single fiber composite test (Russian), 2A429
- Effect of electrophysical activation of components of polymer composites on their adhesional interaction (Russian), 8A854
ZHANG , CHENGLIN: Structral dynamics optimum design with given frequencies and position of mode shape node lines (Chinese), 9A893
ZHANG , DF: Influences of fluidic interfaces on the formation of fine-scale structures by chaotic mixing, 9A157
ZHANG , HAITO: Automatic mesh generating algorithm and its application for arbitrary multiply connected regions (Chinese), 9A49
ZHANG , HONGWU: Combined programming and iteration algorithm for FE analysis of 3D contact problems, 10A519
ZHANG , JIANHAI: Finite element analysis of solid-fluid interaction considering the geometric nonlinearity of the solid (Chinese), 9A35
ZHANG , MINGMIN: Experiment on induced vibration of opening cavity with elastic cylindrical wall by air-flow (Chinese), 3A216
ZHANG , RUQING: Introduction to parallel computational structural mechanics (Chinese), 9A244
ZHANG , SHUANGYIN: FEM anlaysis of mode II crack in a laminated beam (Chinese), 9A26
ZHANG , W: New biaxial bending test on oval sandwich plates, 7A645
ZHANG , XINZHONG: Effects of external counterpulsation on the pulse waves in human aorta, 3A1407
ZHANG , YANQING: Formulation for generalized conforming element of moderate thick shell with Ferguson's surface (Chinese), 9T75
ZHANG , YIZHONG: Stiffness-averaging method for calculating the fundamental frequency of finite amplitude nonlinear vibration of a circular plate (Chinese), 9T579
ZHANG , YUNRAN: Problems of windblast, 7A1418
ZHANG, AZHOU: Structral dynamics optimum design with given frequencies and position of mode shape node lines (Chinese), 9A893
ZHANG, BENZHAO: Stokes flow of a rotating sphere around the axis of a circular orifice or a circular disk, 10A1070
ZHANG, BI: Bulging of bolted guideways, 12A989
ZHANG, BIN: NO and N_2O formation during char combustion: Is it HCN or surface attached nitrogen, 7T1319
ZHANG, BING-YU: Stability of dynamic inversion control laws applied to nonlinear aircraft pitch-axis models, 8A1019
ZHANG, BINGYAN: Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), 11A157
ZHANG, BIXING: Nonaxisymmetric acoustic field excited by a cylindrical tool placed off a borehole axis and extraction of shear wave, 7A314
- Theoretical study of perturbation method for acoustic multipole logging in anisotropic formation, 10A383
ZHANG, BL: Application of rate-ratio asymptotics to the prediction of extinction for methanol droplet combustion, 10A1379
ZHANG, BO: Steady-state quantum hydrodynamic model for semiconductors, 5T875
ZHANG, CHAO: Inter-relationships of elastic moduli and strains in crossply laminated composites, 9A542
- Local and overall condensation heat transfer behavior in horizontal tube bundles, 10A1278
ZHANG, CHUHAN: Dynamic damage constitutive model of concrete in uniaxial tension, 7A843
ZHANG, DAWEI: Animate simulation for coaxial collision of two bars (Chinese), 8A185
ZHANG, DE-WEN: Computation of eigenvector derivatives with repeated eigenvalues using a complete modal space, 2T88
ZHANG, DH: Proposed intermittency measurement method for transitional boundary layer flows, 4A1023
- Investigation of intermittency measurement methods for transitional boundary layer flows, 10T1140
ZHANG, DI-MING: Penalty upwind FEM for diffusive convection problem in double-diffusive system, 6A1187
ZHANG, DIANREN: Method for analyzing the dynamic response of a structural system with variable mass, damping and stiffness (Chinese), 11T98
ZHANG, DONGXIAO: Impacts of local dispersion and first-order decay on solute transport in randomly heterogeneous porous media, 4A1292
ZHANG, DONGXU: Topological optimization of plane elastic continuum with stress constraints (Chinese), 8A728
ZHANG, DWEWN: Improved Guyan reduction and successive reduction procedure of dynamic model (Chinese), 9A59
ZHANG, DZ: Finite-particle-size effects in disperse two-phase flows, 5A912
ZHANG, F: Transition from fast deflagration to detonation under the influence of periodic longitudinal perturbations, 3T209
ZHANG, FANG: Identification of dynamic load based on series expansion (Chinese), 10A396
ZHANG, GUANGLONG: Influences of external drying condition on drying process of porous medium (Chinese), 8A1203
ZHANG, GUOQING: Comparison of pressure-based and artificial compressibility methods for solving 3D steady incompressible viscous flows, 8A907
- Segregated prediction of 3D compressible subsonic fluid flows using collocated grids, 12A1067
ZHANG, GX: Harmonic thermal fracture of multiple crack system and the stability of cracks in RCC arch dam, 12A1285
ZHANG, H: Primary stress in scarred boiler tubes, 1A929
- Computation of nonlinear transfer functions when constant terms are present, 2A247
- Unwrapping the phase response functions for nonlinear systems, 5A310
- Numerical study on utilization of melting of phase change material for cooling of a heated surface at a constant rate, 6A1096
- Crack front curvature effect on stress intensity factor of through and part-through thickness cracks, 8A619
- Numerical algorithm using multizone adaptive grid generation for multiphase transport processes with moving and free boundaries, 12A1224
ZHANG, H-L: Numerical analysis of incompressible flow over smooth and grooved circular cylinders, 9A1089
ZHANG, H-Y: Elementary reaction modeling of high-temperature benzene combustion, 5A1252
ZHANG, HANZHONG: New low-Reynolds-number k-ε model for turbulent flow over smooth and rough surfaces, 12A1155
ZHANG, HONG: Study on the thermodynamic properties and dehydration reaction kinetics of some salt-hydrates, 1A1159
ZHANG, HONG-WU: Size distributions of coarse sand bed load in turbulent flow field, 4T925
ZHANG, HONG-WU: Parametric variational principle for elastic-plastic consolidation analysis of saturated porous media, 5A549
ZHANG, HONG-YUE: Design of unknown input observers and robust fault detection filters, 8A347
ZHANG, HONGQING: Error estimates of semi-analytical solution of mixed state Hamiltonian element (Chinese), 8A22
ZHANG, HONGWU: Stress singularities near corner of wedged dissimilar materials (Chinese), 7A496
- No-sense ray solution in programming method for contact analysis (Chinese), 8A801
- Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, 12A492
ZHANG, HUI-YUAN: Stress analyal solution of mixed state Hamiltonian element (Chinese), 8A22
ZHANG, HONGWU: Stress singularities near corner of wedged dissimilar materials (Chinese), 7A496
- No-sense ray solution in programming method for contact analysis (Chinese), 8A801
- Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, 12A492
ZHANG, HUI-YUAN: Stress analysis of spatial frames with consideration of local flexibility of multiplanar tubular joint, 10A932
ZHANG, J: Information design for SAIL I, 7A472

- Three-dimensional wake formations behind a family of regular polygonal plates, 11A898
- Assessment of resistance of non-metallic coatings to silt abrasion and cavitation erosion in a rotating disk test rig, 12A926

ZHANG, JG: Enhanced axial dispersion in oscillating pipe flow with different solute concentrations at its ends, 9A1144

ZHANG, JH: Spectral analysis for systems with hysteretic restoring force, 6A275

ZHANG, JI FENG: Adaptive control via a simple switching algorithm, 7A376

ZHANG, JI-FENG: Adaptive control of jump parameter systems via nonlinear filtering, 4T338

ZHANG, JIAJUN: July 12, 1993 Hokkaido-Nansei-Oki, Japan, earthquake: Effects of source complexity on surface-wave radiation, 11A1341

ZHANG, JIAN-HAI: Transient analysis of artificial mechanical valve: Blood interaction, 1A1456

ZHANG, JIAN-MIN: Aseismic evaluation of geogrid-reinforced embankments with steep slope using centrifuge modeling, 4A620

- Predictions of radiative transfer in 2D nonhomogeneous participating cylindrical media, 6A1136

ZHANG, JIANFENG: Interactions of vortex-induced vibrations of a circular cylinder and a steady approach flow at a Reynolds number of 13,000, 9A304

- Generalized propagation matrix method for seismic wave propagation in inhomogeneous attenuating medium (Chinese), 11A172

ZHANG, JIANHONG: Design of plane diffusers in turbulent flow, 8A991

ZHANG, JIANHUA: Stefan problem for a reaction-diffusion system, 1A1307

ZHANG, JIANLI: Design and implementation of control system based on expert system (Chinese), 11A353

ZHANG, JIE: Soot suppression by ferrocene in laminar ethylene-air nonpremixed flames, 11A1284

- Array observations of the shear-coupled PL wave, 11A1384

ZHANG, JIYE: Necessary and sufficient conditions for the absolute stability of discrete type Lurie control system, 6T338

ZHANG, JI: Boundary integral transformation of body-force volume integral in BEM for 2D anisotropic elasticity, 8A63

ZHANG, JUN: Direct integration method for stochastic FE analysis of nonlinear dynamic response, 8A13

- Sensitivity analysis of structural anti-resonance (Chinese), 10A203

ZHANG, JW: Stability and wind shear effects on meso-scale cellular convection, 3T1346

ZHANG, JX: Frequency domain parametric identification method for studying the nonlinear performance of squeeze-film dampers, 7A210

- Mechanism of pressure variation at the leading edge of a bearing pad, 11T1075

ZHANG, JY: Semi-analytical approach for solving forced vibration problems based on a convolution-type variational principle, 7A189

ZHANG, K: Onset of convection in a rapidly rotating compressible fluid spherical shell, 7A1120

ZHANG, KAIFENG: Simulation of superplastic sheet forming and bulk forming, 6A567

ZHANG, KANGDA: Interactions of coplanar surface semi-elliptical cracks and embedded elliptical cracks in finite thickness plates under uniform tension, 1A835

- Stress intensity factors for internal semi-elliptical surface cracks in pressurized thick-walled cylinders using the hybrid BEM, 4A710
- Stress intensity factors for semi-elliptical surface cracks in plates and cylindrical pressure vessels using the hybrid BEM, 4A711
- Interactions of two coplanar elliptical cracks embedded in finite thickness plates under uniform tension, 6A642
- Analyses on interactions of two identical semi-elliptical surface cracks in the internal surface of a cylindrical pressure vessel, 9A846
- Stress intensity analyses on tension of a finite thickness plate with two coplanar semi-elliptical surface cracks, 12A739

ZHANG, KEKE: Hydromagnetic instabilities driven by the Hartmann boundary layer in a rapidly rotating sphere, 6A983

ZHANG, KS: Fracture prediction and necking analysis, 2A631

- Analysis of deformation and fracture for cracked specimen of ductile steel, 8A626

ZHANG, LC: Mechanics model for sheet-metal stamping using deformable dies, 3A611

ZHANG, LEI: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541

ZHANG, LI: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820

ZHANG, LI-XIN: Tension stiffening in reinforced concrete membrane elements, 7A944

ZHANG, LIANGCHI: Running-in wear of a steel/SiC_p-Al composite system, 12A910

ZHANG, LIN: Gas and solute diffusion coefficients in pore networks and its description by a simple capillary model, 3A1254

ZHANG, LING: Optimal control of breaking moment for a wheel and tire, 10A439

ZHANG, LINGMI: Shifted-interative modal method of structural eigenvector derivative computation (Chinese), 4A203

ZHANG, LIQIANG: Precision calorimetric studies of H_2O electrolysis, 1A1163

ZHANG, LIQING: Asymptotic error expansion of a collocation-type method for Hammerstein equations, 1T9

ZHANG, LIZHI: Simulation studies of control of oil-refining heating furnaces (Chinese), 8A1270

ZHANG, M: Development of a nonlinear FE modeling of the below-knee prosthetic socket interface, 4A1372

- Frictional action at lower limb-prosthetic socket interface, 10A1488

ZHANG, MING-DONG: Study of reactional force compensation based on three-dof parallel platforms, 4A403

ZHANG, MINGXIA: Stress distribution caused by force with saw (Chinese), 9A605

ZHANG, N: Dynamic condensation of mass and stiffness matrices, 6A154

ZHANG, NENG-LI: Role of mainstream flow velocity in film cooling in a duct, 10T1251

ZHANG, OUQI: Extraction of free-free modes using constrained test data, 4T230

- New method for the improvement of measured modes through orthogonalization, 9T246
- Iterative method for calculating derivatives of eigenvectors, 10T238

ZHANG, P: Coupled FEM-BEM formulation for acoustic radiation in a subsonic non-uniform flow, 10A1085

- Surface faulting of the 1954 Fairview Peak (M_S 7.2) and Dixie Valley (M_S 6.8) earthquakes, central Nevada, 12A1388

ZHANG, Q: Enhanced bandwidth multilayer transducers for imaging applications, 1A358

- Minimax production planning in failure-prone manufacturing systems, 4A422

ZHANG, QI-LIN: Modified nonlinear member element allowing large loading and displacement increments, 10A34

ZHANG, QIANG: Research and practice of the selective direction noise measurement method (Chinese), 10T369

ZHANG, QILIN: Application of nonlinear beam and cable element theory in the design of light mast structures (Chinese), 9A23

ZHANG, R: Reverberation loss in shallow water, 2A222

ZHANG, RENDUO: Exact solutions for 1D transport with asymptotic scale-dependent dispersion, 9A1299

ZHANG, RIXIANG: Type of floating breakwater for lowering long-crested wave transmissivity for deep water applications (Chinese), 9A1049

ZHANG, RUICHONG: Seismic ground motion synthetics of the 1989 Loma Prieta earthquake, 10A1427

ZHANG, S: Prediction of peeling failure of reinforced concrete beams with externally bonded steel plates, 2A760

- Quantitative molecular-mixing measurements using digital processing of absorption images, 3A975
- Stream function coordinate Euler formulation and shocktube application, 11A1086
- Probabilistic assessment of non-destructively determined flaws in welds, 11A838

ZHANG, SARA Q: Two and 3D heat transfer in mixed convection with streamwise periodic heating, 3A1059

ZHANG, SH: Three-dimensional FE simulation of the integral hydrobulge forming of a spherical LPG tank, 1A22

- Finite-element analysis of the integral hydro-bulge forming of double-layer gap spherical vessels, 12A10

ZHANG, SHANYUAN: Dynamic buckling problem caused by propagation of stress wave in elastic cylindrical shells under impact torque, 9A638

ZHANG, SHAO QING: Finite element approach to global-local modeling in composite laminate analysis, 2A449

ZHANG, SHAOWEN: Study of hydrodynamic characteristics and vibration of cantilever structure in water (Chinese), 11A212

ZHANG, SHENGKUN: Artificial intelligence β-unzipping method in structural system reliability analysis, 12A837

ZHANG, SHI MING: Normal six-dof motions of knee joint during level walking, 11A1457

ZHANG, SHI-HONG: Integral hydro-bulge forming of double-layer gap spherical vessels, 6A566

ZHANG, SHIZHOU: Development of an Ultra-precision angle sensor: Compensation of the thermal drift of the light source (Japanese), 5T686

- Development of measurement system on angular profile of the polygon mirror surface (Japanese), 11A705

ZHANG, SHOU-HUA: Radial differential mobility analyzer, 2A1209

ZHANG, SHUANGYIN: Dynamic effect of laminated beam subjected to transverse impact (Chinese), 4A151

ZHANG, SONGWEI: Premixed flame effects on turbulence and pressure-related terms, 1A1322

ZHANG, SW: Direct integration method for stochastic FE analysis of nonlinear dynamic response, 8A13

ZHANG, T: Considerations in determining thermal diffusivity from temperature time series using finite difference methods, 3A577

- Time-dependent fatigue crack growth in titanium metal matrix composites, 5A602

ZHANG, TG: Dynamic deformation of rigid-plastic beams for general impulsive loading: A phenomenological model, 1A505

ZHANG, TIAN-RUN: Why the L_g phase does not traverse oceanic crust, 6A1237

- Variation of regional seismic discriminants with surface topographic roughness in the western US, 12A1393

ZHANG, TINGFANG: Finite volume method of non-orthogonal mesh for analyses of seepage problems (Chinese), 8A1305

ZHANG, TONG-YI: Fracture mechanics for a mode III crack in a piezoelectric material, 4A700

ZHANG, W: Continuum model for dynamic damage evolution of anisotropic brittle materials, 10A808

- Response of an SDOF system to periodic external and parametric excitations with random phase modulations, 11A768

ZHANG, WEI: Research on principle of slow-scanning controlled electrochemical honing of gears (Chinese), 7A745

- Flat-end cutter path generation for a sculptured surface for 3-axes NC machining, 10A712
- Exact displacement solution of arbitrary degree paraboloidal shallow shell of revolution made of linear elastic materials, 10A610
- Improved neural networks algorithm for rotary machinery fault diagnosis (Chinese), 10A474

ZHANG, WEI-MING: Calculation of numerical uncertainty using Richardson extrapolation: Application to some simple turbulent flow calculations, 5A974

ZHANG, WEN: Dynamic stability of a rotor filled or partially filled with liquid, 9A232

ZHANG, WENCHAO: Finite element aided design of biaxial bending tests on oval sandwich plates, 2A474

ZHANG, WENSHOU: Responses of long-span structures subjected to arbitrarily coherent multi-point random seismic excitations (Chinese), 9A1386

ZHANG, WENXIAO: Numerical simulation on mechanics behavior of thermal fatigue course (Chinese), 8A1232

ZHANG, WENZHI: Determination of forward slip in H-beam rolling, 6A549

ZHANG, WU: Photoelastic behavior of optically heterogeneous fiber composites - I: The equivalence of birefringence in optically heterogeneous unidirectional fiber composites, 2A454

- Photoelestic behavior of optically heterogeneous fiber composites - II: The principal direction of the equivalent birefringence for optically heterogeneous unidirectional fiber composites, 2A455

ZHANG, X: Fragmentation of highly porous char particles burning in regime I, 12T1315

- Algorithm for calculating water surface elevations from surface gradient image data, 12T244

ZHANG, X-D: MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model, 8T1438

ZHANG, XD: Use of thickness-shear mode in adaptive sandwich structures, 2A771

- Grid influence on upwind schemes for the Euler and Navier-Stokes equations, 9A88

ZHANG, XIANGZHOU: Longitudinal shear of a crack in a multi-material circular cylinder, 6A673

ZHANG, XIANMIN: Lower order critical operating speeds indentification for flexible linkage mechanisms (Chinese), 10A84

- Finite dynamic element analysis for high-speed flexible linkage mechanisms, 12A967

ZHANG, XIAO-QIU: Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, 6A362

ZHANG, XIAOYING: Modeling and control of backlash in the drive mechanism of a radially rotating compliant beam, 9A427

ZHANG, XIN: Co- and contrarotating streamwise vortices in a turbulent boundary layer, 2A938

ZHANG, XING: Analytical-variational and generalized weighted conservative integral method on solution of interfacial cracks with their applications to bi-metal glued joints, 4A740

- Closed form solution of stress and strain concentration factors of axially symmetric bodies with small scale plasticity by means of the conservative integral method, 6A382
- Analytical-generalized variational method of multi-region on solution of large scale delamination of laminate (Chinese), 9A538
- Analytical variational method of solution for stress concentration factors of finite plates with a pin hole, 10A516

ZHANG, XINPING: How to obtain a complete dependence curve of impact toughness or fracture toughness vs temperature on nuclear pressure vessel steels by using only one Charpy-size specimen, 1A840

ZHANG, XIONG: Rigid FE and its applications in engineering, 3A19

ZHANG, XN: Expert system for flow routing in a river network, 2A863

ZHANG, XUEFU: Software servo course (attitude) systems, 7A407

ZHANG, XUEREN: Determination of stress intensity factor in ultrasonic fatigue loading by means of dynamic modal analysis and 3D FE calculation, 4A708

ZHANG, XUSHOU: Characteristics of the chemical reaction between pure iron implanted with molybdenum ion and S-containing lubricating oil additive, 11A808

ZHANG, Y: Two-dimensional simulation of turbulent autoignition with transient laminar flamelet source term closure, 2A1180

- Finite-element work-hardening plasticity model of the uniaxial compression and subsequent failure of porous cylinders including effects of void nucleation and growth - Part II: Localization and fracture criteria, 10A543
- Effects of localized deformation on melting processes in ice, 11A1437
- Assuring the matchable degree in selective assembly via a predictive model based on set theory and probability method, 11A401
- Formulation and theory of the Newton interior-point method for nonlinear programming, 12T350

ZHANG, YANSONG: Analytic resolutions and applications of the nonlinear seepage flow equations of coal infusion, 7A1102

ZHANG, YAOMING: Weakly singular boundary integral equation for thin plate bending theory (Chinese), 8A61

ZHANG, YI: Computerized design of low-noise face-milled spiral bevel gears, 2A813

- Crack nucleation in saline ice with interacting inhomogeneities, 3A1390
- Technique for generating stress-strain curves from flexural data, 12A568

ZHANG, YI-FEI: Cast filling simulations of thin-walled cavities, 5A580

ZHANG, YIFEN: Nonlinear thermal buckling for composite laminats with elliptical delamination (Chinese), 8A1224

ZHANG, YIMIN: Generalized probabilistic perturbation method for static analysis, 4A801

- Reliability analysis of single-dof nonlinear systems with random parameters (Chinese), 6A105
- Stochastic perturbation FEa, 8A46

ZHANG, YIN: Destruction of organic compounds in water using supported photocatalysts, 11A1449

ZHANG, YINGLONG: Resonant interaction between a uniform current and an oscillating object, 9A309

- Combined refraction and diffraction of short waves using the dual-reciprocity BEM, 11A867
- Scattering of long waves around a circular island mounted on a conical shoal, 12A250

ZHANG, YM: Cutting force dynamics as a tool for surface profile monitoring in AWJ, 5A570

- Numerical analysis of fully penetrated weld pools in gas tungsten arc welding, 11A836
- Characterization and real-time measurement of geometrical appearance of the weld pool, 12A994

ZHANG, YONG: Examples of using structural intensity and the force distribution to study vibrating plates, 6A131

- Measuring the structural intensity and force distribution in plates, 6A137

ZHANG, YONGWEI: Molecular dynamics simulation of crack-tip processes in copper, 3A714

ZHANG, YOUYUN: Improved neural networks algorithm for rotary machinery fault diagnosis (Chinese), 10A474

ZHANG, YT: Localization of knee joint cartilage pathology by multichannel vibroarthrography, 4A1363

ZHANG, YU: Optimal control of breaking moment for a wheel and tire, 10A439

ZHANG, YUAN: Leaky Rayleigh wave scattering from elastic media with random microstructures, 6A209

ZHANG, YUAN-GAO: Iteration algorithm for kinematic shakedown analysis, 4A474

- Algorithm for plastic limit analysis, 4A470

ZHANG, YUE: Theory of response analysis of fuzzy stochastic dynamical systems with a single dof, 8A761

ZHANG, YUELIANG: Kane's equations for percussion motion of variable mass nonholonomic mechanical systems, 6A81

ZHANG, YUWEN: Analysis of thermal energy storage system with conjugate turbulent forced convection, 3A1024

- Analysis of forced convection heat transfer in microencapsulated phase change material suspensions, 3A1023
- Semi-analytical solution of thermal energy storage system with conjugate laminar forced convection, 5A1184
- Heat transfer enhancement in latent heat thermal energy storage system by using an external radial finned tube, 8A1215
- Integral approximate solution of heat transfer in the grinding process, 11A1187

ZHANG, YUXIANG: Improved neural networks algorithm for rotary machinery fault diagnosis (Chinese), 10A474
ZHANG, YW: Analysis of the effects of symmetrical tilt grain boundaries on the plastic deformation, 1A515
- Molecular dynamics simulation of interaction of a dislocation array from a crack tip with grain boundaries, 11A461
ZHANG, YY: Crack front curvature effect on stress intensity factor of through and part-through thick-section, 3A1235
- Two-dimensional velocity shift caused by the use of a rotating mirror in PIV flow field measurements, 6A1059
- Combined experimental and numerical scheme for the determination of contact loads between cemented particles, 7A543
- Study on the polypropylene-high density polyethylene-styrene-butadiene-styrene block copolymer ternary blends - I: Composition, morphology, and properties of polypropylene/high density polyethylene-styrene-butadiene-styrene block copolymer blends, 7A589
- Asymptotic solution of a class of nonlinear non-autonomous systems with large damping under multiple external periodic forces, 8A77
- Exact stationary response solutions of nonlinear dynamic systems, 9A153
- Partial EHL analysis of rib-roller end contact in tapered roller bearings, 10T1227
- Effect of astigmatism due to beam refractions on the formation of the measurement volume in LDA measurements, 10A1239
- Experimental technique for studying mixed-mode fatigue crack growth in solder joints, 12A716
- Fatigue crack initiation in solder joints, 12A707
ZHANG, ZEFU: Study on tribological properties of the complex of rare earth dialkyldithiocarbamate and phenanthroline in lubricating grease, 10A1233
- Tribological properties and lubricating mechanisms of the rare earth complex as a grease additive, 12A1196
ZHANG, ZH: Boundary element scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, 1A293
ZHANG, ZHAO-ZHU: Tribological characteristics of JS mateent scheme for evaluation of four-pole parameters of ducts and mufflers with low Mach number non-uniform flow, 1A293
ZHANG, ZHAO-ZHU: Tribological characteristics of JS material under lubrication of oil, 12A898
ZHANG, ZHENFANG: Running-in wear of a steel/SiC_p-Al composite system, 12A910
ZHANG, ZHENG: Closed form solution of stress and strain concentration factors of axially symmetric bodies with small scale plasticity by means of the conservative integral method, 6A382
ZHANG, ZHENYUE: Inverse extreme eigenpair problem and its parallel iterative solution for symmetric tridiagonal matrices, 2A58
ZHANG, ZHI-HUI: Physical model of the solution space of 3-dof parallel planar manipulators, 6A361
ZHANG, ZHI-ZHOU: Bending analysis of antisymmetric angle-ply laminated plates in including transverse shear effects, 12A571
ZHANG, ZHIKANG: Equivalent polynomial approximation technique in nonlinear structural dynamics, 2A150
ZHANG, ZHILI: Solving the free boundary problem in continuous casting by using BEM, 8A65
ZHANG, ZHIMIN: Mathematical analysis of Zienkiewicz-Zhu's derivative patch recovery technique, 12A19
ZHANG, ZHIMING: Thermal non-Newtonian EHL analysis of rib-roller end contact in tapered roller bearings, 5A1101
ZHANG, ZHONGAN: Contour design and practice for a low radar cross section vehicle, 10T941
ZHANG, ZHONGLIANG: Precision calorimetric studies of H_20 electrolysis, 1A1163
ZHANG, ZL: New failure criterion for the Gurson-Tvergaard dilational constitutive model, 1A800
- Sensitivity analysis of material parameters for the Gurson constitutive model, 11A671
ZHANG, ZM: Thermal modeling and analysis of laser calorimeters, 10A1244
ZHANG, ZY: Improve equivalent fluid approximations for a low shear speed ocean bottom, 5A264
ZHAO , GENG-FU: Secondary instability with respect to spatial growing 3D subharmonic disturbances in boundary layer flow with suction, 4T1034
ZHAO , MINGHAO: Method of analyses of the stress intensity factors of surface cracks in Reissner's plates by line-spring model and the displacement discontinuity boundary integral equation (Chinese), 9A109
ZHAO , WEIBING: Implementation of the mesh generator for adaptive multigrid FEM (Chinese), 9A57
ZHAO , WEN-QIAN: Diffusion properties of oiled wastewater in open channel, 4A917
ZHAO, A: Failure of fiber-reinforced granular soils, 8A532
ZHAO, CHONGBIN: Analytical solution for 2D dynamic consolidation in frequency domain, 3A571
- Asymptotic formula for correcting FE predicted natural frequencies of membrane vibration problems, 7A150
- A-posteriori error estimator-corrector for natural frequencies of thin-plate vibration problems, 9A196
- Asymptotic formulae for correcting FE predicted natural frequencies of gravity and embankment dams, 9A217
- A-posteriori error estimators-correctors for natural frequencies of membrane vibration problems, 11A113
- Evolutionary natural frequency optimization of thin plate bending vibration problems, 12A813
ZHAO, CHUNSHENG: Using backpropagation neural networks to correct the stiffness matrix in a FE model (Chinese), 6A29
ZHAO, D: Crack propagation in a model composite, 9A837
ZHAO, DEYOU: Calculation method of resonant frequency on wave-induced shiphull vibration (Chinese), 8A147
- Method of ship vibration forecasting by databases (Chinese), 8A148
- Fluid-structure coupling kinetic analysis of propellers (Chinese), 9A1234
ZHAO, FENG: Integrated method for computing the internal and external viscous flow field around the ducted propulsor behind an axisymmetric body, 4T1104
ZHAO, FZ: Multidimensional inverse transient heat conduction problems by direct sensitivity coefficient method using a FE scheme, 10A1296
ZHAO, G: Computer aided preform design in forging using the inverse die contact tracking method, 12A677
ZHAO, GUOFAN: Unified model for structural reliability analysis based on fuzzy random probabilistic theory (Chinese), 8A737
- Experimental study of shear behavior of concrete beams with cold rolled deformed steel stirrups (Chinese), 8A747
ZHAO, HUA: Virtual contact loading method for contact problems considering material and geometric nonlinearities, 4A439
- Stress-intensity factor for a semi-elliptical surface crack at the thread root of a screwed-pipe joint, 8A616
- Numerical method for load distribution in threaded connections, 12A992
ZHAO, HY: Eccentric operation and blade-loss simulation of a rigid rotor supported by an improved squeeze film damper, 5A817
ZHAO, J: Global characteristics and structures of hydrogen-air counterflow diffusion flames, 11A1275
ZHAO, JF: Research on reducing erosion by adding ribs on the wall in particulate two-phase flows, 11A649
ZHAO, JH: Stress characteristics of unidirectional composites with triple surface notches, 6A431
ZHAO, JI: New method of automatic polishing on curved aluminium alloy surfaces at constant pressure, 2A541
ZHAO, JIA-ZHENG: Tribological characteristics of JS material under lubrication of oil, 12A898
ZHAO, JIE: Design of Lifetime Predication System of reformer tubes (Chinese), 11A640
- Vibration analysis of structures with rotation and reflection symmetry, 12A133
ZHAO, JIYUAN: Wavelet packets - AR spectrum analysis and its application in vibration diagnosis (Chinese), 4A393
ZHAO, JUN: Surge response statistics of tension leg platforms under wind and wave loads: A statistical quadratization approach, 6A219
ZHAO, JX: Estimating modal parameters for a simple soft-soil site having a linear distribution of shear wave velocity with depth, 7A1373
- Analytical design methodology for an annular combustor, 9A1321
ZHAO, LEI: New equivalent nonlinearization method for random vibrations of nonlinear systems, 8T98
- Analysis of natural frequency and buckling on orthogonal and ortho-laid space truss by Spline-Galerkin method (Chinese), 9T110
- Weighted residual method by Monte Carlo for random numerical analysis of structures (Chinese), 11A741
ZHAO, LG: Initial growth direction of interface crack as influenced by nearby substrate crack in dissimilar media, 2A664
- Crack initiation angles for systems of two interacting cracks in media with rectilinear-preferred directions, 8A669
ZHAO, LIAN-SHE: Regional moments, energy levels, and a new discriminant, 10A1441
ZHAO, LIE: Stability study of an unsteady oscillation flow, 11A977
ZHAO, LINGCHENG: New procedure for orthogonalization of measured modes considering structural symmetry (Chinese), 4T207
ZHAO, MEIYING: Load distribution in composite multifastener joints, 11A832
ZHAO, MM: Unified model for fracture mechanics, 10A767
ZHAO, QI: Hybrid changeable basis Galerkin technique for nonlinear analysis of structures, 4A812
- Adaptive parameter incremental method for the analysis of snapping problems, 6A732
ZHAO, QINGYUN: Simulation of superplastic sheet forming and bulk forming, 6A567
ZHAO, R: Complete linear theory for a 2D floating and liquid-filled membrane structure in waves, 5A218
ZHAO, SUHUA: Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, 9A105
ZHAO, T: Numerical solution of laminar forced convection in a heated pipe subjected to a reciprocating flow, 1A1182
ZHAO, TS: Friction coefficient of a fully-developed laminar reciprocating flow in a circular pipe, 11A957
ZHAO, W: Elastic solutions for corner cracks undergoing uniform displacement-controlled loading, 1A780
ZHAO, X: Optimal design by genetic algorithm for maximum fundamental frequency of laminated shallow shells, 12A173
ZHAO, XIANGSONG: Modification of dynamic model of mechanical structures based on fuzzy optimization knowledge (Chinese), 4A101
ZHAO, XIAO-LING: Square and rectangular hollow sections under transverse end-bearing force, 1A908
- Lateral-buckling tests of cold-formed RHS beams, 3A552
- Butt welds and transverse fillet welds in thin cold-formed RHS members, 3A862
- Longitudinal fillet welds in thin cold-formed RHS members, 3A865
ZHAO, XIAOMING: Study on CAM system for machining of mesh surface: Relation of machining accuracy, error of normal vector and mesh interval (Japanese), 1A729
ZHAO, XING-HUA: Two-dimensional problem of anisotropic elastic body with a hyperbolic boundary, 1A470
ZHAO, XING-HUA: Influence of interface layer on microstructural stresses in mortar, 8A509
- Stress analysis of a sand particle with interface in cement paste under uniaxial loading, 10A663
ZHAO, Y: Finite volume FLIC method and its stability analysis, 2A893
- Stress-strain and failure analyses of composite pipe under torsion, 5A484
- Stress characteristics of unidirectional composites with triple surface notches, 6A431
ZHAO, YA-PU: Load carrying capacities of circular rings with arc-shaped supports, 8A482
- Saturation impulses for dynamically loaded structures with finite-deflections, 8A141
- Notch sensitivity of circular rings subjected to impact loading, 10A278
ZHAO, YANGLU: Modeling of pressureless constant heating rate sintering of ceramic matrix composites, 3A454
ZHAO, YAZHI: Two-component sorption model and its application (Chinese), 8A848
ZHAO, YH: Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite, 9A822
ZHAO, YIYUAN: Critical considerations for helicopters during runway takeoffs, 1A920
- Capture conditions for merging trajectory segments to model realistic aircraft descents, 8T1015
- Optimal vertical takeoff and landing helicopter operation in one engine failure, 9A965
ZHAO, YONG: Multigrid computation of flow past airfoil using k-ε turbulence model, 2A1040
ZHAO, YONG-SHENG: Physical model of the solution space of 3-dof parallel planar manipulators, 6A361
- Physical model of the solution space and the atlas of the reachable workspace for 2-dof parallel planar manipulators, 6A362
ZHAO, YU-QIU: Plane problem of orthotropic quasistatic thermoelasticity, 7A1282
ZHAO, Z: Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - I: Modeling, 11A1183
- Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate - II: Experiments, 11A1184
ZHAO, ZG: Planar forcing of floating ice sheets, 2A1281
ZHAO, ZHEMING: Impact of Delrin disc: Lubricated and dry contacts, 11A810
ZHAO, ZHENGWEI: Bridge fatigue damage evaluation and updating using non-destructive inspections, 8A592
ZHAO, ZHIJUN: Damage nucleation during electromigration along an isolated interface in an elastic medium, 8A609
ZHAO, ZHIYE: Calculation of boundary stresses in BEs, 9A107
ZHAO, ZHONGSHENG: Boundary element method for solving the nonhomogeneous Helmholtz equation with variable coefficients, 9A105
ZHAOAKASHI, XIAOMING: Study on CAM system for 5-axis controlled machining center: Efficient collision check and collision avoidance (Japanese), 7A747
ZHARII, OY: Frictional contact between the surface wave and a rigid strip, 9A257
- Exact solution of a time-dependent frictional contact problem for two elastic spheres, 10A520
ZHARNITSKY, V: Geometrical description of the nonlinear dynamics of a multiple pendulum, 4A106
ZHAROV,
Dimensionless characteristics of lubricating film in plain bearings design taking into account shaft deviation: Determination, approximation, and limits of applicability, 5A1090
- Simulation of the "crankshaft-bearings-cylinder block supports" tribosystem in internal combustion engines, 5A833
- Clearance shape evolution of a steadily loaded hydrodynamic journal bearing, 5A1089
- Deformation and wear of a half-space by a sliding convex indenter, 5A807
ZHAROVA, JS: Methods of continuous control of irregularities and surface defects in chemical threads and yarns, 6T592
ZHE, JIANG: Variational principle and energy integrals in a complex sound intensity field, 1A354
ZHEBYNEV, DA: Wave technology in machinery manufacture, 12A471
ZHELIGOVSKII, AV: Power-dynamic analysis of a windwheel unit with a variable inertia flywheel, 6A1299
ZHELTOVODOV, AA: Asymmetric crossing-shock-wave and turbulent-boundary-layer interaction, 4A1027
ZHEMCHUZHNIKOVA, IV: Effect of orthotropism and laminarity of the coating of a ribbed shell of revolution on its stability, 7A672
ZHEN, K: Forging of compressor blades: Temperature and raChinese), 9A555
ZHENG, BF: Numerical simulation of the transient moisture transfer through porous insulation, 6A1191
ZHENG, CHANGLIANG: Generalized self-consistent FE iterative averaging method (Chinese), 7A594
ZHENG, CHU-GUANG: Comparison of several discrete arithmetic schemes for simulating a constrained jet and lab-scale tangential fired furnace, 12A1311
ZHENG, CQ: Life study of nickel-based single crystal turbine blades: Viscoplastic crystallographic constitutive behavior, 7A533
- Analysis of the effect of crystallographic orientations on the fracture of nickel-base single crystals (Chinese), 11A28
ZHENG, D: Study on personal noise exposure in China, 12A299
ZHENG, G: Self-healing slip pulse on a frictional surface, 1A1402
ZHENG, GS: Method of heat and mass transfer enhancement in film evaporation, 3A1094
ZHENG, GUOGUANG: Convective heat transfer of rotating spheres and spheroids with nonuniform surface temperatures, 8A1102
ZHENG, GUOJI S: Effect on additives on the regeneration of a dilute absorbent, 3A1191
ZHENG, GUTAN: Self-healing slip pulse on a frictional surface, 1A1402
ZHENG, J: Real time frequency domain fiberoptic temperature sensor using ruby crystals, 6A1367
ZHENG, JI: Rational FE (Chinese), 9A80
ZHENG, JIAN: Dynamic damage and failure in viscoplastic materials, 4A750
ZHENG, JIMIN: Measurements of specific heat of meta-nitrobenzoic acid-diethanolamine crystals: By differential scanning calorimetry, 1A1157
ZHENG, JINGZHE: Effects of soil-structure interaction on seismic response of PC cable-stayed bridge, 4A1327
ZHENG, LANSHI: Film-substrate interface stresses and their role in the tribological performance of surface coatings, 3A835
ZHENG, LI: Three dimensional cutting force analysis in end milling, 6A580
ZHENG, LX: Grouted precast concrete column connections under reversed cyclic bending and compression, 11A754
ZHENG, M: Ductile damage model corresponding to the dissipation of ductility of metal, 8A629
ZHENG, Q-S: Micromechanical model of texture-induced orthotropy in planar crystalline polymers, 7A2
ZHENG, QINGXIONG: Expressions of fatigue life of ceramics with given survivability, 5A593
ZHENG, R: Predicting warpage of injection molded fiber-reinforced plastics, 8A455
ZHENG, S: Delamination characteristics of double-cantilever beam and end-notched flexure composite specimens, 11A677
ZHENG, SHIJE: Geometrically nonlinear generalized hybrid element and refined element method of non-conforming modes, 3A36
ZHENG, SHIYING: Exact solution of sandwich beams, 1A597
ZHENG, SHUIYING: Two-control volume model and dynamic characteristics research for labyrinth seal (Chinese), 10A1019
ZHENG, SONGMU: Exponential stability of linear viscoelasticity and thermoviscoelasticity, 7A519
ZHENG, W: Performance of partitioned-bed sorption heat pump systems, 2A1145

- Effect of operating conditions on the performance two-bed closed-cycle solid-sorption heat pump systems, 3A1160
- Performance optimization of two-bed closed-cycle solid-sorption heat pump systems, 6A1155
- Performance of multi-bed sorption heat pump systems, 10A1325

ZHENG, WANPING: Extraction of transient signals from nonperiodic dynamic responses, 5A302

ZHENG, WX: Optimal control of singular systems with a cost on changing control, 7T381

ZHENG, X: Ductile damage model corresponding to the dissipation of ductility of metal, 8A629

ZHENG, X-L: Notch strength of ceramics and statistical analysis, 4A745

ZHENG, XIA MING: Boundary effects for Couette flow of granular materials: Dynamical modeling, 5A1294

ZHENG, XIANSHU: Research on itegrated system of casting technology CAD and numerical simulation (Chinese), 7A757

- Experimental study of castings deformation (Chinese), 9A717

ZHENG, XIAO-JING: Magnetoelastic bending and snapping of ferromagnetic plates in oblique magnetic fields, 4A589

- Free-vibration analysis of compressed clamped circular plates, 6A133

ZHENG, XIAOJING: Seminumerical method for buckling of sector plates, 2A496

ZHENG, XIAOPING: Applications of the Trefftz method in linear elliptic boundary-value problems, 5A57

- Model identification method of vibrating structures from incomplete model information, 6A121

ZHENG, XIAOZHONG: Vibration analysis of structures with rotation and reflection symmetry, 12A133

ZHENG, XIULIN: Expressions of fatigue life of ceramics with given survivability, 5A593

- Fatigue performance of old bridge steel and the procedures for life prediction with given survivability, 6A612
- Prediction of probability distribution of fatigue life of 15MnVN steel notched elements under variable-amplitude loading, 9A777

ZHENG, XJ: Stress intensity factors and weight functions for a corner crack in a finite thickness plate, 10A775

ZHENG, YM: Numerical analysis of strongly nonlinear baroclinic instability, 2A976

ZHENG, YU: Error estimates of semi-analytical solution of mixed state Hamiltonian element (Chinese), 8A22

ZHENG, YUAN: Single-loop QFT design for robust performance in the presence of non-parametric uncertainties, 5A326

ZHENG, YULIU: Predictive heat generation model in orthogonal cutting visco-plastic material, 9A709

ZHENG, ZC: Study of aircraft wake vortex behavior near the ground, 8A890

ZHENG, ZHAOCHANG: Arnoldi reduction algorithm for large scale gyroscopic eigenvalue problem, 12A104

ZHENG, ZHIGUO: Fluid-structure coupling kinetic analysis of propellers (Chinese), 9A1234

ZHERNAKOV, VS: Diagonal formulation of mass matrix in the FEM, 6A7

ZHI , XIZHE: Mode superposition-Riccati transfer matrix method for transient analysis of flexible rotor-bearing systems (Chinese), 3A168

ZHI, YUSHAN: Stress analysis of two-arc approximate ellipsoidal pressure vessel heads and parameter optimization, 9A970

ZHIGANOV , NK: Technological and theoretical studies on the process of polyester yarn high-speed spinning, 6A450

ZHIGULYOV, SV: Experimental investigation of the features of the boundary layer development on an airfoil, 10A1196

ZHIGUN, IG: Ultimate stresses in spatially reinforced composites of different structural geometry and component elastic properties (Russian), 7A574

ZHIKHAREV, CN: Generation of Tollmien-Schlichting waves by free-stream turbulence, 10A1135

ZHIKHAREV, GM: Steady quasi-geostrophic flow component formation over undulating bottom topography - Part II: A two-layer low-order model of the open ocean, 7T1386

ZHIL'NIKOV, EP: Calculation of rolling-contact bearing service life under variable conditions of loading, 6A810

- Estimating the mode of lubrication in standard rolling-contact bearings: Calculation of roller bearings, 11A1080

ZHILIN, PA: Modified energy functional for the Reissner theory of plates, 5A517

- Classical plate theory and the Kelvin-Tait transformation, 7T604
- New approach to the analysis of free rotations of rigid bodies, 10A77

ZHIQIANG, ZHOU: Nonlinear decoupling control of aircraft motion, 1A396

ZHLUKTOV, SV: Numerical investigation of thermal and chemical nonequilibrium flows past slender blunted cones, 6A929

ZHMUD, N: Static and dynamic behavior of a high stiffness Stewart platform-based force-torque sensor, 4A409

ZHONG , WANXIE: Precise computation for transient analysis (Chinese), 9T67

ZHONG , ZHIYOU: Limited-view optical tomography technique and its application to temperature field measurement in flow of hot air, 3A1016

ZHONG, BINGLIN: Structure identification method for random vibration (Chinese), 4T140

ZHONG, BOMING: Effect of several variables on J-COD relationship and plastic rotational factor r_p, 7A820

ZHONG, FANGYUAN: Weakly nonlinear analysis on identification of vortex, sound, and heat, and their interactions in shear flow, 11A247

ZHONG, JL: Impact problem for a nonlinear elastic membrane with non constant boundary conditions, 1A605

- Dynamic extension and twist of a nonlinear elastic tube, 5A176

ZHONG, JP: Spatially filtered vibration control of cylindrical shells, 12A834

ZHONG, LIANGCAI: Influence of capillary pressure on the evaporation of thin liquid films, 3A1093

ZHONG, P: Stability of magnetic bearing-rotor systems having a central support backup bearing, 5A545

ZHONG, PING: Noise active control study based on control theory for distributed parameter systems (Chinese), 4A324

ZHONG, QP: Probabilistic approach to applications of the R6 structural integrity assessment method, 10A757

ZHONG, S: Interferometric study of organized structures in wakes of circular cylinders, 6A996

ZHONG, TIEYI: Calculation method of resonant frequency on wave-induced shiphull vibration (Chinese), 8A147

ZHONG, WANXIE: Rethinking to finite difference time-step integrations, 4A66

- Investigation of the accuracy of the solution of the constrained substructuring method, 5A170
- Hamiltonian structure and 2D nonlinear waves in shallow water (Chinese), 7A265
- Stress singularities near corner of wedged dissimilar materials (Chinese), 7A496
- Combined programming and iteration algorithm for FE analysis of 3D contact problems, 10A519
- New time integration method for solving time dependent partial differential equations, 12A46
- Stress singularity analysis at crack tip on bi-material interfaces based on Hamiltonian principle, 12A492

ZHONG, WEIFANG: Boundary value problems of 2D anisotropic body with a parabolic boundary, 12A499

ZHONG, XIANG-XIANG: New time integration method for solving time dependent partial differential equations, 12A46

ZHONG, XIAOGUANG: Dynamic behavior of the interface between two solid phases in an elastic bar, 6A441

- Phase boundary motion in an elastic bar of finite length, 11A495

ZHONG, XIAOLIN: Augmented Burnett-equation solutions over axisymmetric blunt bodies in hypersonic flow, 1A1014

- Numerical simulation of transient hypersonic flow using the essentially nonoscillatory schemes, 9A1099

ZHONG, ZHI-HUA: Unified contact algorithm based on the territory concept, 12A497

ZHONGHUA, LI: Expressions for predicting the residual stress in surface induction hardening of steel bars, 8A1233

ZHOU , CHUANRONG: Structral dynamics optimum design with given frequencies and position of mode shape node lines (Chinese), 9A893

ZHOU , CHUNHUA: Self-adaptive FEM for solving 2D Euler equations on the unstructured meshes, 6A28

ZHOU , JIANPING: Distributed transfer function method for analysis of cylindrical shells, 2A110

ZHOU , LIAN-DE: Numerical simulation of scale effect on ship stern flow and hydrodynamic performance, 4A1106

ZHOU , QINGPU: Nonlinear instability of wavetrain under influences of shear current with varying vorticity and air pressure, 10A1171

ZHOU , WEIJIANG: Numerical study of vortex-breakdown over a slender wing in transonic flow at high incidence, 3A915

ZHOU , YICHUN: Laser-induced reverse plugging effect, 3A648

ZHOU , ZHUJING: Formulation for generalized conforming element of moderate thick shell with Ferguson's surface (Chinese), 9T75

ZHOU, BENKUAN: Error estimate of h-convergence in quadrilateral elements, 8A41

- Comparative study on the h-convergence of 4-node and 8-node quadrilateral elements, 9A50

ZHOU, BINZHONG: Accurate formulation of log-stretch dip moveout in the frequency-wavenumber domain, 11A1366

ZHOU, CENGZHU: Research on theory and test on defrosting soil using microwave power (Chinese), 8A536

ZHOU, CHONGHUA: Fiber-optic microphone based on a combination of Fabry-Perot interferometry and intensity modulation, 1A360

ZHOU, CHUAN: Comparison of irradiance measurements made with the multi-filter rotating shadowband radiometer and first-class thermopile radiometers, 5A1350

ZHOU, D: Effects of elevated free-stream turbulence on flow and thermal structures in transitional boundary layers, 5A937

ZHOU, DADONG: Combined effects of elevated free-stream turbulence and streamwise acceleration on flow and thermal structures in transitional boundary layers, 8T942

- Specral analysis of boundary-layer transition on a heated flat plate, 8A943

ZHOU, DAYU: Parametric calibration of electroacoustic transducers, 6A707

ZHOU, DENGEN: Three-phase flow and gravity drainage in porous media, 4A1311

ZHOU, G: Prediction of impact damage thresholds of glass fiber reinforced laminates, 1A544

- Damage mechanisms in composite laminates impacted by a flat-ended impactor, 2A644
- In-plane and interlaminar shear properties of carbon-epoxy laminates, 5A473
- Pressure-based Euler scheme for transonic internal and external flow simulation, 9T1112

ZHOU, GUANGQUAN: Statistical analysis of brittle solid damage based on network model, 7A780

ZHOU, GUOHUI: Pointwise superconvergence of the streamline diffusion FEM, 5A30

ZHOU, HB: Free vibration analysis of sandwich plates with laminated faces using spline finite point method, 8A135

ZHOU, HONGREN: Stochastic neural network and its application to multi-maneuvering target tracking, 6A297

ZHOU, HUIJIU: Prediction of notch fatigue limits in a compressive residual stress field, 10A739

ZHOU, J: Smart robot's geometric model inverting system, 1A425

- Strip distributed transfer function method for analysis of plates, 11A533

ZHOU, JI-LIN: Hamiltonian description of streamline formalism with application in planetary rings, 1A274

ZHOU, JIA-SHOU: Statistics of eigensolutions for systems with random shape parameters using BEM, 10A55

ZHOU, JIAN GUO: Velocity-depth coupling in shallow-water flows, 2A850

ZHOU, JIANQIN: Several factors impairing the phase measurement accuracy, 2A688

ZHOU, JIANXIN: Boundary element monotone iteration scheme for semilinear elliptic partial differential equations, 12A51

ZHOU, JINGWEI: Burning model of internal combustion engine based on neural networks (Chinese), 7A1343

ZHOU, JINJIN: Critical stress calculation of silicon steel sheet after pulse laser irradiation (Chinese), 11A1246

ZHOU, JINSHI: Quantitative justification of simplifications in scene heat conduction problems, 4A1198

ZHOU, JQ: Radar assessment of structural concrete using neural networks, 4A784

ZHOU, JUNJIE: Regression analysis of inlet port performance optimized in diesel engine (Chinese), 8A1289

ZHOU, JZQ: Yield stress and maximum packing fraction of concentrated suspensions, 5A862

ZHOU, LI: Existence and stability of boundary layer's solutions to a system of reaction-diffusion equations, 5T1200

ZHOU, LIBO: Cylindrical mirror grinding with resinoid-bonded extremely fine grit diamond wheels (Japanese), 4T644

ZHOU, LIXING: Adiabatic low-temperature calorimeter for heat capacity measurement of small samples, 1A1161

ZHOU, M: Efficient DCOC algorithm based on high-quality approximations for the problems including eigonvalue constraints, 5A691

- Numerical modeling and particle image velocimetry measurement of the laminar flow field induced by an enclosed rotating disc, 7A1063
- Mechanisms-based constitutive equations for the superplastic behavior of a titanium alloy, 11A450
- Difficulties in truss topology optimization with stress and local buckling constraints, 11A721
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part II: Numerical simulations, 12A214
- Dynamically propagating shear bands in impact-loaded prenotched plates - Part I: Experimental investigations of temperature signatures and propagation speed, 12A213
- Improved approximation technique for the DCOC method of sizing optimization, 12A814

ZHOU, MD: Effects of excitation on the coherent and random motion in a plane wall jet, 9A1164

ZHOU, MM: Monitoring airplane takeoff performance: Prototype instrument with learning capability, 1A1115

ZHOU, NN: Estimates of local tensile strength of welded joints, 1A499

ZHOU, Q: Using neural network for tool condition monitoring based on wavelet decomposition, 8A799

ZHOU, QING: Tension zone model of blanking and tearing of ductile metal plates, 6A554

ZHOU, RC: Supression of nonlinear panel flutter at supersonic speeds and elevated temperatures, 7A294

ZHOU, S: Integration and design of piezoceramic elements in intelligent structures, 7A913

- Spatial transformation of the discrete sound field from a propeller, 11A242

ZHOU, SHI-JUN: Analysis of effect of dead loads on natural frequencies of beams using FE techniques, 10A142

ZHOU, W: Space-time mixed FEs for rods, 11T16

ZHOU, WE: Dynamic stiffness analysis of laminated composite plates, 9A593

ZHOU, WEIXIA: Precision calorimetric studies of H_2O electrolysis, 1A1163

ZHOU, XIANG-YANG: Comparison of several discrete arithmetic schemes for simulating a constrained jet and lab-scale tangential fired furnace, 12A1311

ZHOU, XIAODONG: Conditioning of numerical boundary measures in wavelet Galerkin methods, 11A62

ZHOU, XIAOGUANG: Study on CAM system for machining of mesh surface: Relation of machining accuracy, error of normal vector and mesh interval (Japanese), 1A729

ZHOU, XUEYI: Equations of complete depth-averaged turbulence model in general orthogonal coordinates, 9A1193

ZHOU, XY: Hierarchical production policies in stochastic two-machine flowshops with finite buffers, 12T475

ZHOU, Y: Textures induced by tension and deep drawing in aluminum sheets, 6A563

- Behavior of initial texture components during the plane strain drawing of FCC sheet metals, 6A560
- Examination of the composite model for starch gels, 8A864

ZHOU, YAFU: Research on ultra-precise level detection method of storage tanks (Chinese), 11A1087

ZHOU, YC: Circular brass foil failed by plugging opposite to direction of incident laser beam, 7A797

ZHOU, YE: Lighthill relationship and sound generation from isotropic turbulence, 2A216

ZHOU, YH: Dynamics and control of nonlinear circular plates with piezoelectric actuators, 6A728

ZHOU, YI: Convergence of a numerical method in mathematical spontaneous potential well-logging, 8A1321

ZHOU, YICHUN: Analytical study on the laser induced reverse-plugging effect by using the classical elastic plate theory - I: Temperature fields, 6A1175

ZHOU, YINGING: Linear prediction approach in airborne adaptive arrays, 10A398

ZHOU, YOU-HE: Seminumerical method for buckling of sector plates, 2A496

- Magnetoelastic bending and snapping of ferromagnetic plates in oblique magnetic fields, 4A589
- Free-vibration analysis of compressed clamped circular plates, 6A133

ZHOU, YUCHEN: Adaptive control of an industrial robot retrofitted with an open-architecture controller, 9A452

ZHOU, Z: Laser-induced incandescence calibration via gravimetric sampling, 11A1300

ZHOU, ZH: Stability analysis of semirigid steel scaffolding, 4A871

- Refined second-order analysis of frames with members under lateral and axial loads, 10A930

ZHOU, ZHAN-ZHOU: Evaporation heat transfer of falling films on horizontal tube - Part 2: Experimental study, 9A1261

ZHOU, ZHEN-LEI: Robotically assisted munition loading system, 4A412

ZHOU, ZHENPING: Generalized probabilistic perturbation method for static analysis, 4A801

ZHOU, ZHI: Dynamic modeling and control of a ball-joint-like variable-reluctiauille flow for non-Newtonian power series fluid, 4A1061

ZHOU, ZHOU: Variable structure control of aircraft for atmospheric disturbance, 7A392

ZHOU, ZILIANG: Motions of a double pendulum, 8T69

ZHOU, ZR: Effect of lubricant in electrical conductor fretting fatigue, 4A682

ZHOU, ZW: Hydrodynamic stability of pendent drop under a liquid column, 9A1076

ZHOU-DI, LIAN: Integrated method for computing the internal and external viscous flow field around the ducted propulsor behind an axisymmetric body, 4T1104

ZHU , DEMAO: Semi-analytical solution for free vibration of laminated composite cylindrical panels (Chinese), 3A143

- Canonical equations of Hamilton of elasticity in a cylindrical coordinate system and the Hamilton element method (Chinese), 9A24

ZHU , GANG: Anisotropic multistage FEM for 2D viscous transonic flow in turbomachinery, 3A21

ZHU , JUFEN: Refined element method and membrane locking for geometric nonlinear analysis of thin plates (Chinese), 9A81
- Discussion of analyzing of geometric nonlinear beams with large rotations (Chinese), 9A25
ZHU , XIAOPING: Variable structure control of aircraft for atmospheric disturbance, 7A392
ZHU , YUNXIANG: Semi-analytical plate-beam super-element (Chinese), 9A83
ZHU, C: Fourier series neural network and its application to system identification, 5A342
- Stress analysis of plates with bonded unbalanced laminates, 5A507
- Mixing by resonant acoustic driving in a closed chamber, 8A1266
ZHU, CHANGMING: New BE-mathematical programming method for contact problems with friction, 1A466
- Finite element-mathematical programming method for elastoplastic contact problems with friction, 4A459
ZHU, CHANGSHENG: Experimental investigation on the effectiveness of advanced hybrid squeeze film damper (Chinese), 4A542
ZHU, CHE: Experimental study of axial heat conduction of oscillating tube's wall (Chinese), 8A1160
ZHU, CHEN: Formation of shear bands in plane sheet, 1A501
ZHU, CHUNQING: Determination of forward slip in H-beam rolling, 6A549
ZHU, CIYOU: Certain parameter of the discretized extended linear-quadratic problem of optimal control, 7T379
ZHU, DEMAO: Analysis of rigid-flexible coupled motion for finite flexible multibody systems (Chinese), 4A108
- Identification of dynamic load based on series expansion (Chinese), 10A396
ZHU, DEPEI: Theoretical aspects in computational elasto-plasticity and their application, 4A475
- Optimal control of breaking moment for a wheel and tire, 10A439
ZHU, DL: Experimental study of ignition in nonpremixed counterflowing hydrogen versus heated air, 7A1317
ZHU, DS: Postbuckling analysis of circular cylindrical shell under combined loads, 3A548
ZHU, F: Rayleigh-Ritz method in coupled fluid-structure interacting systems and its applications, 3A218
ZHU, GANG: Tensor universal serendipity elements and unsteady Taylor-Galerkin FEM, 10A36
ZHU, GUIQIU: Failure analysis of a gas turbine from a generating set, 9A768
ZHU, GUOAN: Measurements of specific heat of meta-nitrobenzoic acid-diethanolamine crystals: By differential scanning calorimetry, 1A1157
ZHU, GUOHUI: Strength and safety analysis of flat steel ribbon helically wound pressure vessel, 1A928
- Potential developments of pressure vessel technology by using thin inner core and flat steel ribbon winding techniques, 1A927
ZHU, HAIPING: Stability for the equilibrium state of Chaplygin's systems, 4A113
ZHU, HJ: Study on optimization of power transmission pylons by minimization of the square sum of the natural periods, 9A894
ZHU, HONG: Mechanical fault diagnosis by means of time-frequency analysis methods (Chinese), 11A157
ZHU, J: Monitoring varying speed machinery vibrations - I: The use of non-stationary recursive filters, 5A161
- Monitoring varying speed machinery vibrations - II: Recursive filters and angle domain, 5A162
- Evaluations of Cauchy principal value integrals and weakly singular integrals in BEM and their applications, 9A101
ZHU, JI-MAO: Short note on the high-order stream-function-vorticity formulations of 2D steady state Navier-Stokes equations, 6A914
ZHU, JIAMING: CC series solution for bending of rectangular plates on elastic foundations, 1A621
ZHU, JIANG: New Reynolds stress algebraic equation model, 1A1087
- Velocity-vorticity formulation of the Stokes system in 2D and 3D spaces, 2T878
ZHU, JIANING: New time integration method for solving time dependent partial differential equations, 12A46
ZHU, JIANPING: Rethinking to finite difference time-step integrations, 4A66
ZHU, JIANSEN: Effective moduli of unidirectional fiber composites containing radial cracking and interfacial debonding, 4A514
ZHU, JIE: Determination of shape-size on real time chatter prediction system, 7T205
ZHU, JINFU: Postbuckling performance of sandwich and composite shells with in-plane shear nonlinearity and unsymmetric layers, 5A524
- Free vibration analysis of multilayered composite plates and shells with the natural approach, 12A187
ZHU, JINSHOU: Effect of mean flow on responses of a fluid-loaded plate, 1A284
ZHU, JIU-JIANG: Interface crack propagation with variable velocity for longitudinal shear problems, 4A752
ZHU, JM: Realization of shock response spectra on a mechanical shock test machine, 1A171
ZHU, JUFEN: Lagrangian method for thermal post-buckling analysis of laminated panels (Chinese), 9A1278
- Refined method of geometric stiffness matrix for analysis of thin plate stability (Chinese), 9A628
ZHU, JUN: Active robust H^{∞} control for vibration of rotor system by controlled squeeze film damper bearing (Chinese), 10T222
ZHU, JY: New design for model reference robust control using state-space techniques, 3A337
ZHU, K: Dynamic response of flexibly jointed frames, 4A186
- Nonlinear elastoplastic analysis of spatial structures under dynamic loading using kinematic hardening models, 12A523
ZHU, L: Probabilistic and Convex Modelling of Acoustically Excited Structures - Studies in Applied Mechanics, 4R4
- Stress and strain analysis of plates subjected to transverse wedge impact, 6A477
ZHU, LING: Transient deformation modes of square plates subjected to explosive loadings, 4A254
- Damage estimate for plating of ships and platforms under repeated impacts, 9A280
ZHU, LUPEI: Lateral variation in crustal structure of the Northern Tibetan plateau inferred from teleseismic receiver functions, 6A1229
ZHU, M: Modeling and simulation of sprays in laminar flames, 11A937
- Design of automotive joints: Using neural networks and optimization to translate performance requirements to physical design parameters, 12A995
ZHU, N: Optimization analysis of a disk-shaped heat pipe, 6T1152
- Effects of liquid-vapor coupling and non-Darcian transport on asymmetrical disk-shaped heat pipes, 10A1319
ZHU, QIDING: Methods with high accuracy for FE probability computing, 1A33
ZHU, QIFENG: Correct limit approximations for planar, cylindrical, and spherical blast waves, 4T280
ZHU, QING: Experimental study on frost heaving force of natural ground (Japanese), 4A610
ZHU, QM: Model validation tests for multivariable nonlinear models including neural networks, 2A244
- Model validation tests for multivariable nonlinear models including neural networks, 2A244
ZHU, RUILIN: Strength and safety analysis of flat steel ribbon helically wound pressure vessel, 1A928
- Potential developments of pressure vessel technology by using thin inner core and flat steel ribbon winding techniques, 1A927
ZHU, S: Experimental fluid-force coefficients for wake-induced cylinder vibration, 1A252
- Experiment of chaotic vibration of loosely supported tube rows in cross-flow, 5A217
- Unsteady-motion theory of magnetic forces for maglev systems, 6A777
- Efficient computational method for modeling transient heat conduction with nonlinear source terms, 11A1192
ZHU, SD: Effects of geometric variables in roll forming a channel section, 10A704
ZHU, SHIJIE: Application of fracture mechanics to prediction of residual life of reformer tube: Continued II (Chinese), 8A588
- Design of Lifetime Predication System of reformer tubes (Chinese), 11A640
ZHU, SONGPING: Efficient numerical calculation of wave loads on an array of vertical cylinders, 5A870
- Resonant interaction between a uniform current and an oscillating object, 9A309
- Combined refraction and diffraction of short waves using the dual-reciprocity BEM, 11A867
- Scattering of long waves around a circular island mounted on a conical shoal, 12A250
ZHU, SP: Calibration technique for a parallel-wire depth probe with conductivity compensation, 10A1235
ZHU, TULONG: Reliability analysis by numerical quadrature and maximum entropy method, 8A734
- Inter-relationships of elastic moduli and strains in crossply laminated composites, 9A542
ZHU, WEIQIU: Stochastic modeling of fatigue crack growth under constant amplitude loading, 12A730
ZHU, WENBO: Determination of collagen-proteoglycan interactions *in vitro*, 10A1475
ZHU, WQ: Nonlinear fatigue damage accumulation under random loading, 10A756
- Exact stationary solutions of stochastically excited and dissipated integrable Hamiltonian systems, 12A134
ZHU, XI: Analysis of effect of dead loads on natural frequencies of beams using FE techniques, 10A142
ZHU, XIANG-GENG: Thermal postbuckling analysis of moderately thick plates, 1A637
ZHU, XIAOLEI: Stability and error estimation for component adaptive grid methods, 12A50
ZHU, XY: Correlation of fatigue crack growth behavior with crack closure in peened specimens, 1A743
ZHU, Y: Scaling of mean square vorticity in turbulent flows, 9T1184
ZHU, YOU-LAN: Highly-accurate numerical method for 2D and 3D shock reflection problems, 9A299
ZHU, YOULI: Large deformation FE analysis of cylindrically bending of metal strips (Chinese), 11A12
ZHU, YY: Unified and mixed formulation of the 8-node hexahedral elements by assumed strain method, 8A50
ZHU, YZ: Reliability factors and tightness of tube-to-tubesheet joints, 10A1036
ZHU, ZH: Stress distribution of dissimilar materials containing inhomogeneities near the interface using a novel FE, 4A46
- Analysis of cracks perpendicular to bimaterial interfaces using a novel FE, 6A686
ZHU, ZHE MING: Improved method of collocation for the problem of crack surface subjected to uniform load, 12A779
ZHU, ZHEMIN: Propagation of Lamb waves in a plate bordered with a viscous liquid, 1A255
ZHU, ZHENQI: Bulging of bolted guideways, 12A989
ZHU, ZUCHI: Robust control via state feedback for a class of uncertain bilinear systems, 9A421
ZHUANG, LX: Force on a circular cylinder in an elliptical orbital flow at low Keulegan-Carpenter numbers, 1A247
ZHUANG, RQ: Stress and strength analysis by FEM of fiber reinforced plastic pipe tees subjected to internal pressure, 8A20
ZHUANG, X: Simulation of the quasi-static mechanics and scalar transport properties of ideal granular assemblages, 2T1203
ZHUBRIN, SV: Computational models of transfer processes in disperse flows, 5A1165
ZHUCK, NP: Strong fluctuation theory for a mean acoustic field in a random fluid medium with statistically anisotropic perturbations, 6A239
ZHUGE, Y: Free vibration analysis of beams on elastic foundation, 12A191
ZHUKOV, AM: New data on torsion-tension of the D16T alloy, 5A443
ZHUKOV, VM: Transient heat transfer in boiling of cryogenic liquids in a channel, 1A1246
ZHUKOVSKI, EZ: Composite suspended shells on cyclical plan, 10A891
ZHULEV, YG: Method of deflecting an axisymmetric jet propagating on the upper wing surface with a flap, 10T1199
ZHUO, CZ: Performance of high-temperature absorption heat transformers using Alkitrate as the working pair, 6A1154
ZHURAVLEV, VF: Electric model of a hemispherical resonator gyro, 10A90
ZIADA, S: Feedback control of globally unstable flows: Impinging shear flows, 5A337
ZIAEI-RAD, S: Modified eigenstructure assignment technique for FE model updating, 12A20
ZIAII, AR: Thermoelastic buckling of thin cylindrical shells based on improved stability equations, 12A626
ZIBDEH, HS: Stochastic vibration of an elastic beam due to random moving loads and deterministic axial forces, 2A774
- Transient mean square response of stochastic systems, 4A141
- Response moments of an elastic beam subjected to Poissonian moving loads, 6A125
ZIBORDI, G: Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces, 11A1444
ZIBOROV, KA: Formation of kinematic and dynamic parameters of variable-structure mechanisms in a transient mode, 9A1010
ZIDAN, M: Flow of a fluid of grade two between two eccentric rotating spheres, 10A1080
ZIEBA, A: Dynamic response of the subterranean gas piping to the selected kind of impact loads (Polish), 3A576
ZIEGERT, JC: Optimal design of split ring dampers for gas turbine engines, 5A1037
ZIEGLER, CK: Long-term simulation of fine-grained sediment transport in large reservoir, 3T885
ZIEGLER, F: Spherical elastic-plastic waves, 1A197
- BEM analysis of grain boundary sliding in polycrystals, 4A530
- Propagation of spherical waves in rate-sensitive elastic-plastic materials, 5A173
- Transient elastic waves in a half-space: Comparison of the DBIE-method with the method of generalized ray, 9A253
ZIELINSKI, AP: Trial functions applied in the generalized Trefftz method, 5A55
ZIELINSKI, P: Review of surface relaxation and reconstruction phenomena, 9A987
ZIELINSKI, ZA: Tests on shear capacity of reinforced concrete, 3A788
- Designing reinforced concrete short-tied columns using the optimization technique, 3A796
- Static and dynamic analysis of tall tube-in-tube structures by finite story method, 11A141
ZIEMIAN, RD: Assessment of American block shear load capacity predictions, 5A722
ZIENKIEWICZ, OC: Softening, localization and adaptive remeshing: Capture of discontinuous solutions, 6A412
- Elastoplastic soil constitutive laws generalized to partially saturated states, 12A642
ZIERKE, WC: Measurements of the tip clearance flow for a high-Reynolds-number axial-flow rotor, 5A1059
- Experimental investigation of the flow through an axial-flow pump, 5A1050
- Flow visualization and the 3D flow in the axial-flow pump, 8A1029
ZIJL, W: Flow pattern analysis for a well defined by point sinks, 5A1297
- Symmetry approximation for nonsymmetric permeability tensors and its consequences for mass transport, 9A1303
ZIJLEMA, M: Construction of a third-order accurate monotone convection scheme with application to turbulent flows in general domains, 9A1200
ZIKANOV, OY: Symmetry-breaking bifurcations in spherical Couette flow, 9A165
ZIKRY, MA: Large-scale crystal plasticity computations of microstructural failure modes, 4A456
ZILLIAC, GG: Numerical and experimental study of a wingtip vortex in the near field, 2A1018
ZILMAN, G: Influence of a bottom mud layer on the resistance of marine vehicles, 12A1163
ZIMBELMAN, DF: Spacecraft attitude determinmetry-breaking bifurcations in spherical Couette flow, 9A165
ZIKRY, MA: Large-scale crystal plasticity computations of microstructural failure modes, 4A456
ZILLIAC, GG: Numerical and experimental study of a wingtip vortex in the near field, 2A1018
ZILMAN, G: Influence of a bottom mud layer on the resistance of marine vehicles, 12A1163
ZIMBELMAN, DF: Spacecraft attitude determination by Kalman filtering of global positioning system signals, 4T301
ZIMIN, BA: Statistical description of composite laminate structure and damage by delamination, 8A461
ZIMMERMAN , DC: Model correlation using multiple static load and vibration tests, 4A145
ZIMMERMAN, JTF: Series solution of the nonlinear wind-driven ocean circulation and its inertial limit, 1A1405
ZIMMERMAN, M: Change in trabecular architecture as measured by fractal dimension, 10A1461
ZIMMERMAN, MC: Application scanning acoustic microscopy in a bone remodeling study, 5A1395
ZIMMERMAN, R: Thermal stresses and effective thermal expansion coefficient of a functionally gradient sphere, 7A1286
ZIMMERMAN, RW: Hydraulic conductivity of rock fractures, 10A1409
ZIMMERMAN, WB: Fluctuations in dense gas concentrations measured in a wind-tunnel, 4A1360
ZIMMERMAN, WR: General approach for using a stiff equation solver to integrate a system of partial differential equations, 1A48
ZIMMERMANN, R: Quick optimum buckling design of axially compressed, fiber composite cylindrical shells, 3T557
ZIMNIAK, Z: Few methods of analytical calculation of forming-limiting curves, 7A730
ZINGONE, G: Stability of masonry walls subjected to seismic transverse forces, 3A1329
ZINGONI, A: Symmetry-adapted flexibility approach for multi-story space frames - Part 1: General outline and symmetry-adapted redundants, 3A809
- Symmetry-adapted flexibility approach for multi-story space frames - Part 2: Symmetry-adapted loads, 3A810
- Derivation matrices for rectangular plane-stress FEs, 4A5
- Efficient computational scheme for the vibration analysis of high tension cable nets, 7A149
ZININ, PV: Spherical inclusion characterization by the acoustical microscope: Axisymmetric case, 6A248
ZINK, AG: Strain distributions in adhesive wood joints, 11A849
- Finite element modeling of double lap wood joints, 11A20
ZINKE, OH: Surface flaws using a modified AC magnetic bridge, 5A674
ZINN, BT: Mixing by resonant acoustic driving in a closed chamber, 8A1266
ZINN, HP: Efficient PBL model for global circulation models: Design and validation, 2A1263
ZINNO, R: Total Langrangian formulation for laminated composite plates analyzed by 3D FEs with 2D kinematic constraints, 1A620
ZINOBER, ASI: Strong consistency and convergence rate of parameter identification for bilinear systems, 10T407
ZINOVIEV, PA: Identifying the properties of individual plies constituting hybrid composites, 8A457
ZION, L: Predicting fatigue loads using regression diagnostics, 10A887
ZIOUPOS, P: Effects of ageing and changes in mineral content in degrading the toughness of human femora, 6A1311
- Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler, 12A715
ZIRABA, YN: Computational model for reinforced concrete beams strengthened by epoxy bonded steel plates, 4A41
- Combined experimental-numerical approach to characterization of steel-glue-concrete interface, 4A505

- Modeling of damaged RC beams strengthened by fiber composite plates, 9A573
ZIRKLER, A: Flight test of radar altimeter enhancement for terrain-referenced guidance, 1T394
ZITOUNI, G: Radial inflow between two flat disks, 5A880
ZIV, I: Effect of ultrasonically determined anisotropy on longitudinal fracture of cortical bone, 12A1444
ZIVCAK, J: Tactile transducer development for rehabilitation and exercise machines, 10A1492
ZIVKOVIC, DT: Kinetics and mechanism of processes in the system $FeSO_4 \times 7H_2O$-MnO_2, 8A1265
ZIVKOVIC, M: General orthotropic von Mises plasticity material model with mixed hardening: Model definition and implicit stress integration procedure, 12A515
ZIVKOVIC, Z: Modeling and analysis of woolen yarn extension, 12A1001
ZIVKOVIC, ZD: Kinetics and mechanism of processes in the system $FeSO_4 \times 7H_2O$-MnO_2, 8A1265
ZIYAEIFAR, M: Adjustable refined strain field in degenerated shell elements, 11A31
- Degenerated plate-shell elements with refined transverse shear strains, 12A601
ZIYONG, TAN: Exact residual modes and their synthesis techiques (Chinese), 10A201
ZLOKOVIC, DM: Stiffness equations of FEs in G-invariant subspaces (Russian), 3A12
ZLOKOVIC, GM: Symmetry-adapted flexibility approach for multi-story space frames - Part 2: Symmetry-adapted loads, 3A810
ZLOKOVICS, GM: Symmetry-adapted flexibility approach for multi-story space frames - Part 1: General outline and symmetry-adapted redundants, 3A809
ZLOTNIK, V: Convection-diffusion equation with periodic boundary conditions, 2A1162
- Time-periodic transport in heterogeneous porous media, 7A1360
ZMITROWICZ, A: Note on natural vibrations of turbine blade assemblies with noncontinuous shroud rings, 10A232
ZMYWACZYK, J: Comparative investigations of thermal conductivity of selected plastics using a steady-state and transient heat conduction method, 9A1293
ZNIDARCIC, D: Centrifugal modeling of bearing capacity of shallow foundations on sands, 2A520
- Consolidation characteristics of phosphatic clays, 9A663
ZOBIN, VM: Apparent stress of earthquakes within the shallow subduction zone near Kamchatka Peninsula, 12A1375
ZOCHER, MA: Evaluation of first ply failure in a 3D load space, 1A539
ZOCHOWSKI, A: Methods of solving steady-state and transient vibrations of discretely supported track, 3A144
ZODO, GW: Fatigue assessment of through plate girder railway bridges, 3A655
ZOK, FW: High temperature deformation and fracture of a fiber reinforced titanium matrix composite, 6A668
- Effects of notch root radius on crack initiation and growth toughnesses of a cross-ply Ti-6Al-4V-SiC composite, 9A529
ZOLESIO, JP: Finite element method for free surface flow problems, 8A206
ZOLEZZI, T: Well-posedness criteria in optimization with application to the calculus of variations, 1T381
ZOLLER, J: Nonlinear stability analysis of plane Poiseuille flow by normal forms, 2A972
ZOLLO, A: Numerical source implementation in a 2D finite difference scheme for wave propagation, 3A1338
ZOLOCHEVSKY, A: Formulation of constitutive equations for fiber-reinforced composites with different behavior in tension and compression, 7T561
- Generalized constitutive equation for creep of polymers at multi-axial loading, 8A876
- Generalized failure criterion for 3D behavior of isotropic materials, 10A765
ZOLOVKIN, NA: Problem of interface heat exchange between a gas bubble and a liquid, 1A1245
ZOLVER, M: Sparse-mode spectral method for the simulation of turbulent flows, 6A46
ZONDLAK, RJ: Rich flammability limits in CH_3OH-CO-diluent mixtures, 7A1336
ZORIY, L: Flexural vibrations and stability of beams with variable parameters (Russian), 3A120
ZORNEROVA, M: Residual shear strength of fatigue cracked slender web panels, 5A604
ZOTTAREL, C: Nonlinear vibrations in the tethered satellite system-mission 1, 8A152
ZOU, BIN: Ice fracture and spalling in ice-structure interaction, 11A1440
ZOU, DAOQIN: Elasticity solutions of spherically isotropic cones under concentrated loads at apex, 7A621
ZOU, GUIPING: Mixed state Hamiltonian dynamic element and a semi-analytical solution for the analysis of thick laminated composite plates, 1A571
- Semi-analytical solution for laminated composite plates in Hamiltonian system, 5A514
- Semi-analytical solution for the dynamic response of thick composite plates in Hamilton systems, 7A166
ZOU, HAN: Spatially continuous mapping of solar resources in a complex high latitude topography, 5A1357
ZOU, JUN: Parallel solution of variational inequality problems with nonlinear source terms, 6A54
- Overlapping Schwarz methods on unstructured meshes using non-matching coarse grids, 10A46
ZOU, QIAN: New Method for measuring the film thickness of mixed ubrication in line contacts, 2A1062
ZOU, SHENG-QUAN: Transient analysis of artificial mechanical valve: Blood interaction, 1A1456
ZOU, X: Patterns of sustained oscillations in neural networks with delayed interactions, 2T63
ZOU, YIDA: Finite
element analysis on collision between two moving elastic bodies at low velocities, 1A221
ZOUAOUI, D: Optimal time re-entry of vehicles by asymptotic matching, 6A318
ZOUGHI, R: Microwave imaging of thick composite panels with defects, 1A853
ZOUHAL, N: Elastic-plastic effects during cyclic loading as predicted by the Taylor-Lin model of polycrystal elasto-viscoplasticity, 12A522
ZOULALIAN, A: Analyse des interactions fluide-paroi dans un systeme ouvert a partir de la connaissance de la distribution des temps de sejour: Application aux depots d'aerosols par thermophorese (French), 9A325
ZOZULYA, VV: Problems of dynamic fracture mechanics without account for the contact of crack margins (Russian), 3A708
- Contact interaction of the crack edges in a plane under harmonic load, 7A153
- Problems of dynamic failure with regard for the contact of crack edges, 7A854
ZSOMBOR-MURRAY, PJ: Isotropic design of two general classes of planar parallel manipulators, 4A856
ZUAZUA, E: Exact controllability and stabilization of a vibrating string with an interior point mass, 2T241
ZUBAIR , SM: Heat conduction in a semi-infinite solid subject to steady and non-steady periodic-type surface heat fluxes, 2A1118
ZUBAIR, M: Scalability of parallel spatial direct numerical simulations on Intel hypercube and IBM SP1 and SP2, 4A93
ZUBAIR, SM: Thermoeconomics of a sensible heat, thermal energy storage system, 3A1165
- Temperature solutions due to time-dependent moving-line-heat sources, 8A1161
- Heat conduction in a semi-infinite solid due to time-dependent laser source, 12A1240
ZUBAREVA, OV: Dynamics of large-scale spatial structures in current-carrying fluids and the electric explosion conductors, 8A997
ZUBE, DM: Arcjet development for amateur radio satellite, 7A987
ZUBER, MT: Spreading of variable-viscosity axisymmetric radial gravity currents: Applications to the emplacement of Venusian "pancake" domes, 4A1323
ZUBER, N: Two-Phase Flow Fundamentals - Multiphase Science and Technology, Vol 8, 9N22
ZUBOV , LM: Necessary and sufficient criteria for ellipticity of the equilibrium equations of a nonlinearly elastic medium, 2A362
ZUBOV, VI: Theory of Oscillations - Series on Optimization, 11N18
ZUBRZYCKI, A: Spatial inhomogeneity of periodic and chaotic attractors of a driven damped nonlinear Schrodinger equation, 6A108
ZUCCARELLO, B: Determination of nonuniform residual stresses using the ring-core method, 10A555
ZUCHOWSKI, R: Effect of stress state on the failure mechanism and fracture of austenitic steel under thermal cycling conditions, 1A754
ZUI, H: Improved practical formulas for estimation of cable tension by vibration method (Japanese), 5T497
ZUKAUSKAS, A: Advances in Engineering Heat Transfer - Proc of 2nd Baltic Heat Transfer Conf, Riga, Jurmala, Latvia, Aug 21-23, 1995, 1N35
ZUMARRAGA, A: Velocity fluctuations in the wake behind wind breakers and at the edge of the shear layer, and their correlations with the free stream, 5T951
ZUMBRUNNEN, DA: Auto-processing of very fine-scale composite materials by chaotic mixing of melts, 4A649
- Heat transfer transients in stagnation flows due to changes in flow velocity, 6T1094
- Influences of fluidic interfaces on the formation of fine-scale structures by chaotic mixing, 9A157
ZUNFT, S: Temperature control of a distributed collector field, 3A1372
- Investigation of control and simulation of solar process heat plants using a flexible test facility, 8A1386
ZUNIGA, FR: Inadvertent changes in magnitude reported in earthquake catalogs: Their evaluation through b-value estimates, 6A1288
ZUO , JIANZHENG: Automatic mesh generating algorithm and its application for arbitrary multiply connected regions (Chinese), 9A49
ZUO, JUN: Splice strength of high relative rib area reinforcing bars, 7A958
- Development length criteria for conventional and high relative rib area reinforcing bars, 11A750
ZUO, JZ: Yield function for porous ductile materials, 8A636
ZUO, KAI: Closed loop shaped-input strategies for flexible robots, 2A308
ZUO, QH: Anisotropic yield surfaces based on elastic projection operators, 5A418
- Flutter and divergence instability of nonconservative beams and plates, 7A653
ZUPPARDI, G: Experimental comparison of two adaptation strategies in an adaptive-walls wind-tunnel, 2A1072
ZUREK, W: Influence of fiber irregularity on the tensile properties of carbon and glass fibers, 1A534
ZUUR, EAH: Use of a reformulsion of the hydrostatic approximation Navier-Stokes equations for geophysical fluid problems, 2A1268
ZVYATKOV, KD: Functional series and Hashin-Shtrikman type bounds on the effective conductivity of random media, 5A462
ZWART, H: Note on applications of interpolation theory to control problems of infinite-dimensional systems, 10A431
ZWEIFEL, PF: Overview of Schrodinger-Poisson problems, 10A5
ZWICK, KJ: Jet-flow scavenging of a curing oven - Part I: Flow visualization, 3A1006
- Jet-flow scavenging of a curing oven - Part II: Numerical simulation, A1192
- Variational analysis of the squeezing flow of a yield stress fluid, 12A1014
ZYCZKOWSKI, M: Optimal structural design under creep conditions, 10A880
- Evolution equations for distortional plastic hardening, 11A452
ZYLA, M: Effects of water and methanol sorption on surfaces of hard coals of different carbonization, 9A689
ZYMIERSKA, D: Determination of surface roughness by grazing incidence X-ray reflectivity, 9A982
- Surface studies of $Re_3Fe_5O_{12}$ garnets, $ReFeO_3$ orthoferrites and $ReVO_4$ orthovanadates, 9T990
ZYRA, S: Fiber optic strain gauge linearization, 1A849
ZYSSET, PK: Alternative model for anisotropic elasticity based on fabric tensors, 4A2